Package ‘MTurkR’

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Description Provides access to the Amazon Mechanical Turk (MTurk) Requester API via authenticated HTTP requests executed with the RCurl package and a number of functions to translate API calls into R data structures (using the XML package).
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R topics documented:

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Description

This package provides access to the Amazon Mechanical Turk (MTurk) API via R, including all the basic API calls, plus additional wrappers to simplify multiple sequential calls and transform the XML returned by the API requests into R data structures (especially, dataframes). The package provides users of the MTurk Requester User Interface (RUI) with access to a variety of functions currently unavailable to them (the creation and maintenance of worker Qualifications, email notifications to workers through ContactWorker, and streamlined bonus payments through GrantBonus). It also provides users with all functions available in the RUI directly in R as well as a large number of other functions, with a relatively simple command-line interface.

The core functionality is enacted through request and authenticate, though most users are unlikely to use these functions directly. (And, the needs of even advanced users can probably be satisfied by the functionality of genericmturkr for making arbitrary API requests.) Instead, most users will find themselves using four principal functions: credentials, CreateHIT, GetAssignments, and ApproveAssignments, to define one’s MTurk (AWS) credentials, to create one or more HITs on the Mturk server, to retrieve completed assignments, and to approve assignments (and thus pay workers), respectively. Critically important, nothing in MTurkR will work during a given session without either first setting AWS credentials with the credentials function or specifying those credentials atomically within each function.

There are five common parameters that can be specified in most MTurkR functions: keypair, print, browser, log.requests, and sandbox. The first of these is the AWS credentials parameter just described (whose default can be set globally with credentials), and the latter four are logicals. print causes certain information to be displayed on the standard output when functions are executed. browser executes the request in the user’s default web browser rather than executing it in R. log.requests records details of API calls in the working directory (see readlogfile). sandbox executes requests in the developer sandbox rather than the live server.

A lightweight menu-based Wizard (called by MTurkR.Wizard) is also available for beginners to interactively connect with MTurk. The wizard is designed to quickly create HITs, approve and reject work, contact or bonus workers, grant Qualifications, and so forth. While helpful, the wizard is intended only to facilitate beginners and is not intended to mimic anything near the full functionality of individual MTurkR functions.

Details

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<th>Package:</th>
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<tr>
<td>Type:</td>
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<tr>
<td>Version:</td>
<td>0.3.5</td>
</tr>
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<td>Date:</td>
<td>2013-03-15</td>
</tr>
<tr>
<td>License:</td>
<td>GPL-2</td>
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</table>
Author(s)

Thomas J. Leeper
Maintainer: Thomas J. Leeper <thosjleeper@gmail.com>

References

  MTurkR homepage
  Amazon Mechanical Turk
  Amazon Mechanical Turk API Documentation

---

AccountBalance Retrieve MTurk account balance

Description

  Retrieves the amount of money (in US Dollars) in your MTurk account. SufficientFunds provides a wrapper that checks whether your account has sufficient funds based upon specified characters of your HIT.

Usage

  AccountBalance(keypair = credentials(), print = TRUE, browser = FALSE, log.requests = TRUE, sandbox = FALSE)

  SufficientFunds(amount, assignments = NULL, hits = NULL, bonus.ct = NULL, bonus.amount = NULL, masters = FALSE, turkfee = /zero.noslash.1, turkmin = /zero.noslash./zero.noslash/zero.noslash5, mastersfee = /zero.noslash.2, keypair = credentials(), print = TRUE, log.requests = TRUE, sandbox = FALSE)

Arguments

  amount Intended per-assignment payment amount.
  assignments Number of intended assignments (per HIT, if multiple HITs).
  hits Number of HITs.
  bonus.ct Number of intended bonuses.
  bonus.amount Amount of each bonus.
  masters A logical indicating whether MTurk Masters will be used. Default is FALSE.
  turkfee Amazon’s fee as percentage of payments. Default is 10-percent (as 0.10).
  turkmin Amazon’s minimum per-assignment fee. Default is $0.005.
  mastersfee Amazon’s additional charge for use of MTurk Masters. Default is 20-percent (as 0.20).
AccountBalance

keypair  A two-item character vector containing an AWS Access Key ID in the first position and the corresponding Secret Access Key in the second position. Set default with credentials.

print  Optionally print the results of the API request to the standard output. Default is TRUE.

browser  Optionally open the request in the default web browser, rather than opening in R. Default is FALSE.

log.requests  A logical specifying whether API requests should be logged. Default is TRUE. See read logfile for details.

sandbox  Optionally execute the request in the MTurk sandbox rather than the live server. Default is FALSE.

Details

AccountBalance takes no substantive arguments. SufficientFunds is a wrapper for AccountBalance that accepts as inputs information about intended payments and bonuses to check whether your account has sufficient funds. If sandbox=TRUE, AccountBalance always returns "$10,000.00".

accountbalance() and getbalance() are aliases for AccountBalance.

Value

Return value is a character string of the format "$10,000.00."

Author(s)

Thomas J. Leeper

References

API Reference

Examples

```r
## Not run:
AccountBalance()
SufficientFunds(amount=".25",assignments="50",hits="5")
SufficientFunds(bonus.ct="150",bonus.amount=".75")
## End(Not run)
```
ApproveAssignment  Approve Assignment(s)

Description
Approve one or more submitted assignments, or approve all assignments for a given HIT or HIT-Type. Also allows you to approve a previously rejected assignment. This function spends money from your MTurk account.

Usage
ApproveAssignment( assignments, feedback = NULL, rejected = FALSE, keypair = credentials(), print = FALSE, browser = FALSE, log.requests = TRUE, sandbox = FALSE)

ApproveAllAssignments( hit = NULL, hit.type = NULL, feedback = NULL, keypair = credentials(), print = FALSE, log.requests = TRUE, sandbox = FALSE)

Arguments
assignments  A character string containing an AssignmentId, or a vector of multiple character strings containing multiple AssignmentIds, to approve.

hit  A character string containing a HITId all of whom’s assignments are to be approved.

hit.type  A character string containing a HITTypeId all of whom’s HITs’ assignments are to be approved.

feedback  An optional character string containing any feedback for a worker. This must have length 1 or length equal to the number of workers. Maximum of 1024 characters. For ApproveAllAssignments, must be length 1.

rejected  A logical indicating whether the assignment(s) had previously been rejected (default FALSE). Approval of previously rejected assignments must be conducted separately from other approvals.

keypair  A two-item character vector containing an AWS Access Key ID in the first position and the corresponding Secret Access Key in the second position. Set default with credentials.

print  Optionally print the results of the API request to the standard output. Default is TRUE.

browser  Optionally open the request in the default web browser, rather than opening in R. Default is FALSE.

log.requests  A logical specifying whether API requests should be logged. Default is TRUE. See readlogfile for details.

sandbox  Optionally execute the request in the MTurk sandbox rather than the live server. Default is FALSE.
AssignQualification

Details
Approve assignments, by AssignmentId (as returned by GetAssignment or by HITId or HITTypeId. Must specify assignments xor hit xor hit.type. ApproveAllAssignments approves all assignments of a given HIT or HITType without first having to perform GetAssignment. ApproveAssignments() and approve() are aliases for ApproveAssignment. approveall() is an alias for ApproveAllAssignments.

Value
A dataframe containing the list of AssignmentIds, feedback (if any), and whether or not each approval request was valid.

Author(s)
Thomas J. Leeper

References
API Reference: Approve Assignment
API Reference: Approve Rejected Assignment

See Also
RejectAssignment

Examples
## Not run:
a <- ApproveAssignment(assignments="26XXH0JPPSI23H54YVG7BKLEXAMPLE")

b <- ApproveAssignment(
assignments=c("26XXH0JPPSI23H54YVG7BKLEXAMPLE1","26XXH0JPPSI23H54YVG7BKLEXAMPLE2"),
feedback="Great work!"")

c <- ApproveAllAssignments(hit="2MQB727M0IGF304GJ16S1F4VE3AYDQ")

d <- ApproveAllAssignments(hit.type="2FFNCWB49F9BBJWA4SUNST5OFSON")

## End(Not run)

AssignQualification Assign Qualification

Description
Assign a Qualification to one or more workers. The QualificationType should have already been created by CreateQualificationType, or the details of a new QualificationType can be specified atomically. This function also provides various options for automatically specifying the value of a worker’s QualificationScore based upon a worker’s statistics.
AssignQualification

Usage

AssignQualification(qual, workers, value = "1", notify = FALSE, name = NULL, description = NULL, keywords = NULL, status = NULL, retry.delay = NULL, test = NULL, answerkey = NULL, test.duration = NULL, auto = NULL, auto.value = NULL, conditional.statistic = NULL, conditional.comparator = NULL, conditional.value = NULL, conditional.period = NULL, set.statistic.as.value = FALSE, keypair = credentials(), print = FALSE, browser = FALSE, log.requests = TRUE, sandbox = FALSE)

Arguments

qual A character string containing a QualificationTypeId.
workers A character string containing a WorkerId, or a vector of character strings containing multiple WorkerIds.
value A character string containing the value to be assigned to the worker(s) for the QualificationType.
notify A logical indicating whether workers should be notified that they have been assigned the qualification. Default is FALSE.
name An optional character string specifying a name for a new QualificationType. This is visible to workers. Cannot be modified by UpdateQualificationType.
description An optional character string specifying a longer description of the QualificationType. This is visible to workers. Maximum of 2000 characters.
keywords An optional character string containing a comma-separated set of keywords by which workers can search for the QualificationType. Cannot be modified by UpdateQualificationType. Maximum of 1000 characters.
status A character vector of “Active” or “Inactive”, indicating whether the QualificationType should be active and visible.
retry.delay An optional time (in seconds) indicating how long workers have to wait before requesting the QualificationType after an initial rejection.
test An optional character string consisting of a QuestionForm data structure, used as a test a worker must complete before the QualificationType is granted to them.
answerkey An optional character string consisting of an AnswerKey data structure, used to automatically score the test.
test.duration An optional time (in seconds) indicating how long workers have to complete the test.
auto A logical indicating whether the Qualification is automatically granted to workers who request it. Default is FALSE.
auto.value An optional parameter specifying the value that is automatically assigned to workers when they request it (if the Qualification is automatically granted).
conditional.statistic An optional character string containing the name of a statistic (see ListStatistics that should be used to conditionally assign the QualificationType to workers.
AssignQualification

conditional.comparator
An optional character string containing a comparator by which a worker’s score of a qualification is compared to the specified value. One of <, <=, >, >=, ==, !=, Exists.

conditional.value
An optional numeric or character string value against which workers scores will be compared. The QualificationType will only be assigned to those whose score on the specified statistic meet the comparison to this value.

conditional.period
An optional character string specifying the period for the statistic. Must be one of: “OneDay”, “SevenDays”, “ThirtyDays”, “LifeToDate”. Default is “LifeToDate”.

set.statistic.as.value
An optional logical specifying whether the worker’s value of the statistic should be used as the value they are assigned for the QualificationType. Default is FALSE and value is used instead.

keypair
A two-item character vector containing an AWS Access Key ID in the first position and the corresponding Secret Access Key in the second position. Set default with credentials.

print
Optionally print the results of the API request to the standard output. Default is TRUE.

browser
Optionally open the request in the default web browser, rather than opening in R. Default is FALSE.

log.requests
A logical specifying whether API requests should be logged. Default is TRUE. See readlogfile for details.

sandbox
Optionally execute the request in the MTurk sandbox rather than the live server. Default is FALSE.

Details
A very robust function to assign a Qualification to one or more workers. The simplest use of the function is to assign a Qualification of the specified value to one worker, but assignment to multiple workers is possible. Workers can be assigned a Qualification previously created by CreateQualificationType or with the characteristics of a new QualificationType specified atomically. Qualifications can also be assigned conditional on each worker’s value of a specified statistic (including assigning the value of the specified statistic as the worker’s score for the Qualification). AssignQualifications() and assignqual() are aliases.

Value
A dataframe containing the list of workers, the QualificationTypeId, the value each worker was assigned, whether they were notified of their QualificationType assignment, and whether the request was valid.

Author(s)
Thomas J. Leeper
authenticate

Authenticate an MTurk Request

Description

A (mostly internal) workhorse function to authenticate requests. This is only supplied for use by advanced users.

Usage

authenticate(operation, secret, service = "AWSMechanicalTurkRequester", version = "2012-03-25")

Arguments

<table>
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<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>operation</td>
<td>A character string containing the operation to be performed.</td>
</tr>
<tr>
<td>secret</td>
<td>The AWS Secret Access Key used to encode the authentication signature.</td>
</tr>
<tr>
<td>service</td>
<td>The MTurk service to which the authenticated request will be sent. Supplied only for advanced users.</td>
</tr>
</tbody>
</table>
Blocking Workers

version

The version of the MTurk API that will be used. Default is the most current version.

Details

This is a mostly internal function that authenticates MTurk API requests. It is made available for use by advanced users to authenticate custom requests.

Value

A list containing the operation to be performed, a base64 encoded, HMAC signature character string, and a formatted timestamp.

Author(s)

Thomas J. Leeper

References

API Reference

See Also

request

---

Blocking Workers  Block/Unblock Worker(s)

Description

Block or unblock a worker. This prevents a worker from completing any HITs for you while they are blocked, but does not affect their ability to complete work for other requesters or affect their worker statistics. GetBlockedWorkers retrieves your list of currently blocked workers.

Usage

```r
BlockWorker(workers, reasons, keypair = credentials(),
            print = TRUE, browser = FALSE, log.requests = TRUE, sandbox = FALSE)
```

```r
UnblockWorker( workers, reasons = NULL, keypair = credentials(),
               print = TRUE, browser = FALSE, log.requests = TRUE, sandbox = FALSE)
```

```r
GetBlockedWorkers(pagename = NULL, pagesize = NULL, keypair = credentials(),
                  print = TRUE, browser = FALSE, log.requests = TRUE, sandbox = FALSE)
```
Blocking Workers

Arguments

workers A character string containing a WorkerId, or a vector of character strings containing multiple WorkerIds.
reasons A character string containing a reason for blocking or unblocking a worker. This must have length 1 or length equal to the number of workers. It is required for BlockWorker and optional for UnblockWorker.
pagenumber An optional integer (or character string) indicating which page of Blocked Workers search results should be returned. Most users can ignore this.
pagesize An optional integer (or character string) indicating how many Blocked Workers should be returned per page of results. Most users can ignore this and the function will return the first 65,535 blocks.
keypair A two-item character vector containing an AWS Access Key ID in the first position and the corresponding Secret Access Key in the second position. Set default with credentials.
print Optionally print the results of the API request to the standard output. Default is TRUE.
browser Optionally open the request in the default web browser, rather than opening in R. Default is FALSE.
log.requests A logical specifying whether API requests should be logged. Default is TRUE. See readlogfile for details.
sandbox Optionally execute the request in the MTurk sandbox rather than the live server. Default is FALSE.

Details

BlockWorker prevents the specified worker from completing any of your HITs. UnblockWorker reverses this operation.
GetBlockedWorkers retrieves currently blocked workers and the reason recorded for their block. This operation returns the first 65,535 blocked workers (the default for pagesize; access to additional blocked workers is available by specifying a pagenumber greater than 1.

BlockWorkers() and block() are aliases for BlockWorker. UnblockWorkers() and unblock() are aliases for UnblockWorker. blockedworkers() is an alias for GetBlockedWorkers.

Value

BlockWorker and UnblockWorker return a dataframe containing the list of workers, reasons (for blocking/unblocking them), and whether the request to block/unblock each of them was valid.
GetBlockedWorkers returns a dataframe containing the list of blocked workers and the recorded reason for the block.

Author(s)

Thomas J. Leeper
References

API Reference: Block
API Reference: Unblock
API Reference: GetBlockedWorkers

Examples

```r
## Not run:
BlockWorker("A1RO9UEXAMPLE", reasons="Did not follow photo categorization HIT instructions.")
GetBlockedWorkers()
UnblockWorker("A1RO9UEXAMPLE")

## End(Not run)
```

Description

Change the HITType of a HIT from one HITType to another (e.g., to change the title, description, or qualification requirements associated with a HIT). This will cause a HIT to no longer be grouped with HITs of the previous HITType and instead be grouped with those of the new HITType. You cannot change the payment associated with a HIT without expiring the current HIT and creating a new one.

Usage

```r
ChangeHITType( hit = NULL, old.hit.type = NULL, new.hit.type = NULL,
                title = NULL, description = NULL, reward = NULL, duration = NULL, keywords = NULL,
                auto.approval.delay = NULL, qual.req = NULL,
                keypair = credentials(), print = TRUE, browser = FALSE,
                log.requests = TRUE, sandbox = FALSE)
```

Arguments

- `hit`: An optional character string containing the HITId whose HITTypeId is to be changed, or a vector of character strings containing each of multiple HITIds to be changed.
- `old.hit.type`: An optional character string containing the HITTypeIds whose HITs are to be changed to the new HITTypeIds.
- `new.hit.type`: An optional character string specifying the new HITTypeIds that this HIT should be visibly grouped with (and whose properties, e.g., reward amount, this HIT should inherit).
- `title`: An optional character string containing the title for the HITType. All HITs of this HITType will be visibly grouped to workers according to this title.
description  An optional character string containing a description of the HITType. This is visible to workers.

reward  An optional character string containing the per-assignment reward amount, in U.S. Dollars (e.g., “0.15”).

duration  An optional character string containing the duration of each HIT, in seconds (for example, as returned by `seconds`).

keywords  An optional character string containing a comma-separated set of keywords by which workers can search for HITs of this HITType.

auto.approval.delay  An optional character string specifying the amount of time, in seconds (for example, as returned by `seconds`), before a submitted assignment is automatically granted.

qual.req  An optional character string containing one a QualificationRequirement data structure, as returned by `GenerateQualificationRequirement`.

keypair  A two-item character vector containing an AWS Access Key ID in the first position and the corresponding Secret Access Key in the second position. Set default with `credentials`.

print  Optionally print the results of the API request to the standard output. Default is TRUE.

browser  Optionally open the request in the default web browser, rather than opening in R. Default is FALSE.

log.requests  A logical specifying whether API requests should be logged. Default is TRUE. See `readlogfile` for details.

sandbox  Optionally execute the request in the MTurk sandbox rather than the live server. Default is FALSE.

Details

This function changes the HITType of a specified HIT (or multiple specific HITs or all HITs of a specified HITType) to a new HITType. `hit` xor `old.hit.type` must be specified. Then, either a new HITTypeId can be specified or a new HITType can be created by atomically by specifying the characteristics of the new HITType.

`changehittype()` is an alias.

Value

A dataframe listing the HITId of each HIT who HITType was changed, its old HITType_Id and new HITType_Id, and whether the request for each HIT was valid.

Author(s)

Thomas J. Leeper

References

API Reference
See Also

CreateHIT
RegisterHITType

Examples

## Not run:
ChangeHITType(hit="2MQB727M0IGF304GJ16S1F4VE3AYDQ", new.hit.type="2KAVAVK16Z2N9TGKQ9FQH6BRJQIY")
ChangeHITType(old.hit.type="2FFNCWYB49F9BBJWA4SJUNST50FSOW", new.hit.type="2KAVAVK16Z2N9TGKQ9FQH6BRJQIY")
ChangeHITType(hit="2MQB727M0IGF304GJ16S1F4VE3AYDQ", title="10 Question Survey", description="Complete a 10-question survey and your opinions", reward=".12", duration=seconds(hours=1), keywords="survey, questionnaire, politics")

## End(Not run)

ContactWorker

<table>
<thead>
<tr>
<th>Contact Worker(s)</th>
</tr>
</thead>
</table>

Description

Contact one or more workers. This sends an email with specified subject line and body text to one or more workers. This can be used to recontact workers in panel/longitudinal research or to send follow-up work. Most likely will need to be used in tandem with GrantBonus to implement panels.

Usage

ContactWorker( subjects, msgs, workers, batch = FALSE, keypair = credentials(), print = FALSE, browser = FALSE, log.requests = TRUE, sandbox = FALSE)

Arguments

subjects A character string containing subject line of an email, or a vector of character strings of length equal to the number of workers to be contacted containing the subject line of the email for each worker. Maximum of 200 characters.

msgs A character string containing body text of an email, or a vector of character strings of length equal to the number of workers to be contacted containing the body text of the email for each worker. Maximum of 4096 characters.

workers A character string containing a WorkerId, or a vector of character strings containing multiple WorkerIds.

batch A logical (default is FALSE), indicating whether workers should be contacted in batches of 100 (the maximum allowed by the API). This significantly reduces the time required to contact workers, but eliminates the ability to send customized messages to each worker.

keypair A two-item character vector containing an AWS Access Key ID in the first position and the corresponding Secret Access Key in the second position. Set default with credentials.

print Optionally print the results of the API request to the standard output. Default is TRUE.
ContactWorker

browser

Optionally open the request in the default web browser, rather than opening in R. Default is FALSE.

log.requests

A logical specifying whether API requests should be logged. Default is TRUE. See readlogfile for details.

sandbox

Optionally execute the request in the MTurk sandbox rather than the live server. Default is FALSE.

Details

Send an email to one or more workers, either with a common subject and body text or subject and body customized for each worker.

In batch mode, workers are contacted in batches of 100. If one email fails (e.g., for one worker) the other emails should be sent successfully. That is to say, the request as a whole will be valid but will return additional information about which workers were not contacted. This information can be found in the MTurkR log file, or by calling the request with browser=TRUE and viewing the XML responses directly.

ContactWorkers() and contact() are aliases.

Value

A dataframe containing the list of workers, subjects, and messages, and whether the request to contact each of them was valid.

Author(s)

Thomas J. Leeper

References

API Reference

Examples

```r
## Not run:
a <- "Complete a follow-up survey for $.50"
b <- "Thanks for completing my HIT!
I will pay a $.50 bonus if you complete a follow-up survey by Friday at 5:00pm.
The survey can be completed at http://www.surveymonkey.com/s/pssurvey?c=A1RO9UEXAMPLE."
c1 <- "A1RO9UEXAMPLE"
d <- ContactWorker(subjects=a, msgs=b, workers=c)

c2 <- c("A1RO9UEXAMPLE1","A1RO9UEXAMPLE2","A1RO9UEXAMPLE3")
3 <- ContactWorker(subjects=a, msgs=b, workers=c2)

## End(Not run)
```
Create HIT

Description

Create a HIT. This is the most important function in the package. It creates a HIT based upon the specified parameters: (1) characteristics inherited from a HITType or specification of those parameters and (2) some kind of Question data structure.

Usage

CreateHIT(hit.type = NULL, question = NULL, validate.question = FALSE, expiration, assignments = "1", assignment.review.policy = NULL, hit.review.policy = NULL, annotation = NULL, unique.request.token = NULL, title = NULL, description = NULL, reward = NULL, duration = NULL, keywords = NULL, auto.approval.delay = NULL, qual.req = NULL, hitlayoutid = NULL, hitlayoutparameters = NULL, response.group = NULL, keypair = credentials(), print = TRUE, browser = FALSE, log.requests = TRUE, sandbox = FALSE)

Arguments

hit.type An optional character string specifying the HITTypeId that this HIT should be visibly grouped with (and whose properties, e.g. reward amount, this HIT should inherit).

question A mandatory (unless layoutid is specified) character string containing a QuestionForm, HTMLQuestion, or ExternalQuestion data structure. In lieu of a question parameter, a hitlayoutid and, optionally, hitlayoutparameters can be specified.

validate.question A logical specifying whether the question parameter should be validated against the relevant MTurk schema prior to creating the HIT (operation will fail if it does not validate, and will return validation information). Default is FALSE.

expiration The time (in seconds) that the HIT should be available to workers. Must be between 30 and 31536000 seconds.

assignments A character string specifying the number of assignments

assignment.review.policy An optional character string containing an XML-formatted Assignment-level ReviewPolicy data structure. MTurkR currently does not provide functionality to generate a ReviewPolicy, but users who generate their own ReviewPolicy should be able to use this parameter.

hit.review.policy An optional character string containing an XML-formatted HIT-level ReviewPolicy data structure. MTurkR currently does not provide functionality to generate a ReviewPolicy, but users who generate their own ReviewPolicy should be able to use this parameter.
CreateHIT

**annotation**  An optional character string annotating the HIT. This is not visible to workers, but can be used as a label by which to identify the HIT from the API.

**unique.request.token**  An optional character string, included only for advanced users.

**title**  A character string containing the title for the HITType. All HITs of this HITType will be visibly grouped to workers according to this title. Maximum of 128 characters.

**description**  A character string containing a description of the HITType. This is visible to workers. Maximum of 2000 characters.

**reward**  A character string containing the per-assignment reward amount, in U.S. Dollars (e.g., “0.15”).

**duration**  A character string containing the amount of time workers have to complete an assignment for HITs of this HITType, in seconds (for example, as returned by `seconds`). Minimum of 30 seconds and maximum of 365 days.

**keywords**  An optional character string containing a comma-separated set of keywords by which workers can search for HITs of this HITType. Maximum of 1000 characters.

**auto.approval.delay**  An optional character string specifying the amount of time, in seconds (for example, as returned by `seconds`), before a submitted assignment is automatically granted. Maximum of 30 days.

**qual.req**  An optional character string containing one or more QualificationRequirements data structures, for example as returned by `GenerateQualificationRequirement`.

**hitlayoutid**  An optional character string including a HITLayoutId retrieved from a HIT template generated in the Requester User Interface, [https://requester.mturk.com/hit_templates](https://requester.mturk.com/hit_templates). If the HIT template includes variable placeholders, must also specify `hitlayoutparameters`.

**hitlayoutparameters**  An optional character string containing URL query parameter-formatted HIT-Layout parameters, for example returned by `GenerateHITLayoutParameter`. Must be specified along with a `hitlayoutid`.


**keypair**  A two-item character vector containing an AWS Access Key ID in the first position and the corresponding Secret Access Key in the second position. Set default with `credentials`.

**print**  Optionally print the results of the API request to the standard output. Default is `TRUE`.

**browser**  Optionally open the request in the default web browser, rather than opening in R. Default is `FALSE`.

**log.requests**  A logical specifying whether API requests should be logged. Default is `TRUE`. See `readlogfile` for details.
sandbox  Optionally execute the request in the MTurk sandbox rather than the live server. Default is FALSE.

Details

This function creates a new HIT and makes it available to workers. Characteristics of the HIT can either be specified by including a valid HITTypeId for "hit.type" or creating a new HITType by atomically specifying the characteristics of a new HITType.

When creating a HIT, some kind of Question data structure must be specified. Either, a QuestionForm, HTMLQuestion, or ExternalQuestion data structure can be specified for the question parameter or, if a HIT template created in the Requester User Interface (RUI) is being used, the appropriate hitlayoutid can be specified. If the HIT template contains variable placeholders, then the hitlayoutparameters should also be specified.

When creating a ExternalQuestion HITs, the GenerateHITsFromTemplate function can emulate the HIT template functionality by converting a template .html file into a set of individual HIT .html files (that would also have to be uploaded to a web server) and executing CreateHIT for each of these external files with an appropriate ExternalQuestion data structure specified for the question parameter.

createhit() and create() are aliases.

Value

A dataframe containing the HITId of the newly created HIT and other details as requested by the ResponseGroup option.

Author(s)

Thomas J. Leeper

References

API Reference

See Also

ExtendHIT
ExpireHIT
DisableHIT
DisposeHIT

Examples

```r
## Not run:
a <- GenerateLayoutParameter("message","Text to display in HIT")
CreateHIT(hit.type="2FFNCWYB49F9BBJWA4SJUNST5OF5OW", hitlayoutid="23ZGOOGQSCM61T1H5H9U0U000QWFFU", hitlayoutparameters=a)
```
CreateQualificationType

Description

Create a QualificationType. This creates a QualificationType, but does not assign it to any workers. All characteristics of the QualificationType (except name and keywords) can be changed later with UpdateQualificationType.

Usage

CreateQualificationType(name, description, status, keywords = NULL, retry.delay = NULL, test = NULL, answerkey = NULL, test.duration = NULL, validate.test = FALSE, validate.answerkey = FALSE, auto = NULL, auto.value = NULL, keypair = credentials(), print = TRUE, browser = FALSE, log.requests = TRUE, sandbox = FALSE)

Arguments

name A name for the QualificationType. This is visible to workers. It cannot be modified by UpdateQualificationType.
description A longer description of the QualificationType. This is visible to workers. Maximum of 2000 characters.
status A character vector of “Active” or “Inactive”, indicating whether the QualificationType should be active and visible.
keywords An optional character string containing a comma-separated set of keywords by which workers can search for the QualificationType. Maximum 1000 characters. These cannot be modified by UpdateQualificationType.
retry.delay An optional time (in seconds) indicating how long workers have to wait before requesting the QualificationType after an initial rejection.
test An optional character string consisting of a QuestionForm data structure, used as a test a worker must complete before the QualificationType is granted to them.
answerkey An optional character string consisting of an AnswerKey data structure, used to automatically score the test, perhaps as returned by GenerateAnswerKey.
CreateQualificationType

**test.duration**  An optional time (in seconds) indicating how long workers have to complete the test.

**validate.test**  A logical specifying whether the test parameter should be validated against the relevant MTurk schema prior to creating the QualificationType (operation will fail if it does not validate, and will return validation information). Default is FALSE.

**validate.answerkey**  A logical specifying whether the answerkey parameter should be validated against the relevant MTurk schema prior to creating the QualificationType (operation will fail if it does not validate, and will return validation information). Default is FALSE.

**auto**  A logical indicating whether the Qualification is automatically granted to workers who request it. Default is FALSE.

**auto.value**  An optional parameter specifying the value that is automatically assigned to workers when they request it (if the Qualification is automatically granted).

**keypair**  A two-item character vector containing an AWS Access Key ID in the first position and the corresponding Secret Access Key in the second position. Set default with credentials.

**print**  Optionally print the results of the API request to the standard output. Default is TRUE.

**browser**  Optionally open the request in the default web browser, rather than opening in R. Default is FALSE.

**log.requests**  A logical specifying whether API requests should be logged. Default is TRUE. See readlogfile for details.

**sandbox**  Optionally execute the request in the MTurk sandbox rather than the live server. Default is FALSE.

**Details**

A function to create a QualificationType. Active QualificationTypes are visible to workers and to other requesters. All characteristics of the QualificationType, other than the name and keywords, can later be modified by UpdateQualificationType. Qualifications can then be used to assign Qualifications to workers with AssignQualification and invoked as QualificationRequirements in RegisterHITType and/or CreateHIT operations.

Note that when browser=TRUE, specifying this operation with test (and, optionally, answer) parameters may produce unintended behavior due to constraints on the length of the URL imposed by some web browsers.

createqual() is an alias.

**Value**

A dataframe containing the QualificationTypeId of the newly created QualificationType and other details as specified in the request.

**Author(s)**

Thomas J. Leeper
## Specify MTurk/AWS Credentials

### Description

Specify your Amazon Web Services (including MTurk) access credentials: (1) Access Key ID and (2) Secret Access Key. These are used to authenticate requests to the MTurk API and must be specified before any operations can be successfully performed by MTurkR.

### Usage

```r
credentials(keypair)
```

### Arguments

- `keypair`: A two-item character vector containing the AWS Access Key ID and AWS Secret Access Key, in that order

### Details

This is the first operation that needs to be performed before any MTurk API requests can be successfully performed in a given MTurkR session. The function simply stores the Access Key ID and the Secret Access Key as a two-item character vector in `credentials()`, which is called by default by all MTurkR operations. This operation can also be performed by loading `MTurkR.Wizard`, which prompts for the keypair the first time it loads in a given R session.
Value

A two-item character vector containing an AWS Access Key ID in the first position and the corresponding Secret Access Key in the second position.

Author(s)

Thomas J. Leeper

References

AWS Access Credentials

Examples

```r
## Not run:
credentials(keypair=c("AKIAJFYV03EEXAMPLE","Bpyq5ZqpQGshEKfcFd8CwUXEXAMPLE/tD0oqYGvI"))
## End(Not run)
```

Description

Disabling a HIT is probably not what you want to do. DisableHIT automatically removes the HIT from the MTurk server, approves (and thus pays for) all submitted and pending assignments, and then permanently deletes all assignment data.

Usage

```r
DisableHIT( hit = NULL, hit.type = NULL, response.group = NULL, keypair = credentials(), print = TRUE, browser = FALSE, log.requests = TRUE, sandbox = FALSE)
```

Arguments

- **hit**: A character string containing a HITId or a vector of character strings containing multiple HITIds.
- **hit.type**: An optional character string containing a HITTypeId.
- **keypair**: A two-item character vector containing an AWS Access Key ID in the first position and the corresponding Secret Access Key in the second position. Set default with `credentials`. 
Options:

- `print`: Optionally print the results of the API request to the standard output. Default is `TRUE`.
- `browser`: Optionally open the request in the default web browser, rather than opening in R. Default is `FALSE`.
- `log.requests`: A logical specifying whether API requests should be logged. Default is `TRUE`. See `readlogfile` for details.
- `sandbox`: Optionally execute the request in the MTurk sandbox rather than the live server. Default is `FALSE`.

Details:
Disable a HIT (and its assignment data). This is a somewhat risky function because it automatically approves all pending assignments and then disposes of everything. `DisposeHIT` is probably what most users will use to delete HIT and assignment data that is no longer needed.

`disable()` is an alias.

Value:
A dataframe containing a list of HITs and whether the request to disable each of them was valid.

Author(s):
Thomas J. Leeper

References:
- API Reference

See Also:
- `CreateHIT`
- `ExtendHIT`
- `ExpireHIT`
- `DisposeHIT`

Examples:
```r
## Not run: DisableHIT(hit="2MQB727MOIGF304GJ16S1F4VE3AYDQ")
## Not run: DisableHIT(hit.type="2FFNCWYB49F9BBJWA4S5UNST50FSOW")
```
DisposeHIT

**Description**

Dispose of a HIT that is no longer needed. You can only dispose of HITs that are Reviewable, with all assignments either approved or rejected.

**Usage**

```
DisposeHIT( hit = NULL, hit.type = NULL, response.group = NULL,
keypair = credentials(), print = TRUE, browser = FALSE,
log.requests = TRUE, sandbox = FALSE)
```

**Arguments**

- **hit**: A character string containing a HITId or a vector of character strings containing multiple HITIds.
- **hit.type**: An optional character string containing a HITTypeId.
- **keypair**: A two-item character vector containing an AWS Access Key ID in the first position and the corresponding Secret Access Key in the second position. Set default with `credentials()`.
- **print**: Optionally print the results of the API request to the standard output. Default is `TRUE`.
- **browser**: Optionally open the request in the default web browser, rather than opening in R. Default is `FALSE`.
- **log.requests**: A logical specifying whether API requests should be logged. Default is `TRUE`. See `readlogfile` for details.
- **sandbox**: Optionally execute the request in the MTurk sandbox rather than the live server. Default is `FALSE`.

**Details**

Dispose of a HIT (and its assignment data) when it is no longer needed. Must specify a HITId or a HITTypeId, but not both. HITTypeId uses the `SearchHITS` operation to locate HITs of the specified HITType before disposing of them.

`disposehit()` is an alias.

**Value**

A dataframe containing a list of HITs and whether the request to dispose of each of them was valid.
DisposeQualificationType

Author(s)
Thomas J. Leeper

References
API Reference

See Also
CreateHIT
ExtendHIT
ExpireHIT
DisableHIT

Examples
```
## Not run:
DisposeHIT(hit="2MQB727M0IGF304GJ165IF4VE3AYDQ")
DisposeHIT(hit.type="2FFNCYB49F9BBJWA4SJUNST5FSOW")

## End(Not run)
```

DisposeQualificationType

Description
Dispose of a QualificationType. This deletes the QualificationType, Qualification scores for all workers, and all records thereof.

Usage
```
DisposeQualificationType(qual, keypair = credentials(), print = TRUE, browser = FALSE, log.requests = TRUE, sandbox = FALSE)
```

Arguments
- **qual**: A character string containing a QualificationTypeId.
- **keypair**: A two-item character vector containing an AWS Access Key ID in the first position and the corresponding Secret Access Key in the second position. Set default with credentials.
- **print**: Optionally print the results of the API request to the standard output. Default is TRUE.
- **browser**: Optionally open the request in the default web browser, rather than opening in R. Default is FALSE.
**log.requests**  
A logical specifying whether API requests should be logged. Default is TRUE. See `readlogfile` for details.

**sandbox**  
Optionally execute the request in the MTurk sandbox rather than the live server. Default is FALSE.

**Details**  
A function to dispose of a QualificationType that is no longer needed. All information about the QualificationType and all workers’ Qualifications of that type are permanently deleted. `disposequal()` is an alias.

**Value**  
A dataframe containing the QualificationTypeId and whether the request to dispose was valid.

**Author(s)**  
Thomas J. Leeper

**References**  
API Reference

**See Also**  
- `GetQualificationType`
- `CreateQualificationType`
- `UpdateQualificationType`
- `SearchQualificationTypes`

**Examples**

```r
## Not run:
DisposeQualificationType("2YCI0RNYJ9262B1D82MPTUEXAMPLE")

## End(Not run)
```

---

**ExpireHIT**  
**Expire HIT**

**Description**  
Force a HIT to expire immediately, as opposed to at its prespecified expiration time. Expired HITs can be extended with the `ExtendHIT` operation.
Usage

```r
ExpireHIT(hit = NULL, hit.type = NULL, keypair = credentials(),
print = TRUE, browser = FALSE, log.requests = TRUE, sandbox = FALSE)
```

Arguments

- `hit`: A character string containing a HITId or a vector of character strings containing multiple HITIds.
- `hit.type`: An optional character string containing a HITTypeId.
- `keypair`: A two-item character vector containing an AWS Access Key ID in the first position and the corresponding Secret Access Key in the second position. Set default with `credentials()`.
- `print`: Optionally print the results of the API request to the standard output. Default is `TRUE`.
- `browser`: Optionally open the request in the default web browser, rather than opening in R. Default is `FALSE`.
- `log.requests`: A logical specifying whether API requests should be logged. Default is `TRUE`. See `readlogfile` for details.
- `sandbox`: Optionally execute the request in the MTurk sandbox rather than the live server. Default is `FALSE`.

Details

A function to (prematurely) expire a HIT (or multiple HITs), thereby preventing any additional assignments from being completed. Pending assignments can still be submitted. An expired HIT can be reactivated by adding additional time to its expiration using `ExtendHIT`. `expire()` is an alias.

Value

A dataframe containing the HITId(s) and whether each expiration request was valid.

Author(s)

Thomas J. Leeper

References

API Reference

See Also

- `CreateHIT`
- `ExtendHIT`
- `DisableHIT`
- `DisposeHIT`
## Description

Extend the time remaining on a HIT or the number of assignments available for the HIT.

## Usage

```r
ExtendHIT(hit = NULL, hit.type = NULL, add.assignments = NULL, add.seconds = NULL,
unique.request.token = NULL, keypair = credentials(), print = TRUE,
browser = FALSE, log.requests = TRUE, sandbox = FALSE)
```

## Arguments

- **hit**: An optional character string containing a HITId or a vector of character strings containing multiple HITIds.
- **hit.type**: An optional character string containing a HITTypeId.
- **add.assignments**: An optional character string containing the number of assignments to add to the HIT. Must be between 1 and 1000000000.
- **add.seconds**: An optional character string containing the amount of time to extend the HIT, in seconds (for example, returned by `seconds`). Must be between 1 hour (3600 seconds) and 365 days.
- **unique.request.token**: An optional character string, included only for advanced users.
- **keypair**: A two-item character vector containing an AWS Access Key ID in the first position and the corresponding Secret Access Key in the second position. Set default with `credentials`.
- **print**: Optionally print the results of the API request to the standard output. Default is `TRUE`.
- **browser**: Optionally open the request in the default web browser, rather than opening in R. Default is `FALSE`.
- **log.requests**: A logical specifying whether API requests should be logged. Default is `TRUE`. See `readlogfile` for details.
- **sandbox**: Optionally execute the request in the MTurk sandbox rather than the live server. Default is `FALSE`.

## Examples

```r
## Not run:
ExpireHIT(hit="2MQB727M0IGF304GJ16S1F4VE3AYDQ")
## End(Not run)
```
GenerateAnswerKey

Details

A useful function for adding time and/or additional assignments to a HIT. If the HIT is already expired, this reactivates the HIT for the specified amount of time. If all assignments have already been submitted, this reactivates the HIT with the specified number of assignments and previously specified expiration. Must specify a HITId xor a HITTypeId. If multiple HITs or a HITTypeId are specified, each HIT is extended by the specified amount.

extend() is an alias.

Value

A dataframe containing the HITId, assignment increment, time increment, and whether each extension request was valid.

Author(s)

Thomas J. Leeper

References

API Reference

See Also

CreateHIT

ExpireHIT

DisableHIT

DisposeHIT

Examples

## Not run:
ExtendHIT(hit="2MQB727M0IGF304GJ1651F4VE3AYDQ",add.assignments="20")
ExtendHIT(hit="2MQB727M0IGF304GJ1651F4VE3AYDQ",add.time=seconds(days=1))

## End(Not run)

GenerateAnswerKey

Generate AnswerKey Data Structure

Description

Generate an AnswerKey data structure for a Qualification test.

Usage

GenerateAnswerKey(questions, scoring = NULL)
AnswerKeyTemplate(xml = NULL, xml.parsed = NULL)
Arguments

- **questions**: A dataframe containing `QuestionIdentifiers`, `AnswerOptions`, `AnswerScores`, and `DefaultScores`. See MTurk API Documentation.
- **scoring**: An optional list containing `QualificationValueMapping` information. See MTurk API Documentation.
- **xml**: A character string containing a complete `QuestionForm` data structure from which a template will be built. Must specify this or the `xml.parsed` parameter.
- **xml.parsed**: A complete `QuestionForm` data structure parsed by `xmlParse`. Must specify this or the `xml` parameter.

Details

GenerateAnswerKey creates an AnswerKey data structure (possibly from a template created by AnswerKeyTemplate from a `QuestionForm` data structure), which serves to automatically score a Qualification test, as specified in the `test` parameter of CreateQualificationType. An AnswerKey data structure is also returned by GetQualificationType.

Value

GenerateAnswerKey returns a list containing an AnswerKey data structure as a parsed XML tree, character string containing that tree, and a url-encoded character string.

AnswerKeyTemplate returns a list that can be used in the `questions` parameter of GenerateAnswerKey. Placeholders are left for `AnswerScore` values to be manually entered prior to using it in GenerateAnswerKey.

Author(s)

- Thomas J. Leeper

References

- API Reference

See Also

- CreateQualificationType

Examples

```r
## Not run:
qs <- list( list( QuestionIdentifier = "Question1", 
    AnswerOption = list(SelectionIdentifier="A", AnswerScore=15), 
    AnswerOption = list(SelectionIdentifier="B", AnswerScore=10), 
    DefaultScore = 5),
    list( QuestionIdentifier = "Question2", 
    AnswerOption = list(SelectionIdentifier="D", AnswerScore=10) ) )

scoring1 <- list( PercentageMapping=5 )
```
scoring2 <- list( RangeMapping=list( list(InclusiveLowerBound=0, InclusiveUpperBound=20, QualificationValue=5), list(InclusiveLowerBound=21, InclusiveUpperBound=100, QualificationValue=10)), OutOfRangeQualificationValue=0 )

ak1 <- GenerateAnswerKey(qs, scoring1)
ak2 <- GenerateAnswerKey(qs, scoring2)

## End(Not run)

---

GenerateExternalQuestion

Generate ExternalQuestion

Description

Generate an ExternalQuestion data structure for use in the ‘Question’ parameter of the CreateHIT operation.

Usage

GenerateExternalQuestion(url, frame.height)

Arguments

- **url**: A character string containing the URL of a HIT file stored anywhere other than the MTurk server.
- **frame.height**: A character string containing the integer value (in pixels) of the frame height for the ExternalQuestion iframe.

Details

An ExternalQuestion is a HIT stored anywhere other than the MTurk server that is displayed to workers within an iframe of the specified height. The URL should point to a page — likely an HTML form — that can retrieve several URL GET parameters for “AssignmentId” and “WorkerId”, which are attached by MTurk when opening the URL. The page should also be able to submit those parameters plus any assignment data to [https://www.mturk.com/mturk/externalSubmit](https://www.mturk.com/mturk/externalSubmit) using either the HTTP GET or POST methods.

Value

A character string containing a URL query parameter-formatted ExternalQuestion data structure.

Author(s)

Thomas J. Leeper
GenerateHITLayoutParameter

## Generate a HITLayout Parameter

### Description

Generate a HITLayout parameter based upon the names of HIT template variables and the values to substitute for those variables in a single HIT. Used in collaboration with a HIT Layout ID ([https://requester.mturk.com/hit_templates](https://requester.mturk.com/hit_templates)) in the CreateHIT operation.

### Usage

```r
GenerateHITLayoutParameter(names, values)
```

### Arguments

- **names**: A character string containing the name of a HIT template variable or a vector of character strings containing the names of multiple HIT template variables.
- **values**: A character string containing the value of a HIT template variable to be inserted for a specific HIT or a vector of character strings containing the values of multiple HIT template variables to be inserted for a specific HIT.

### Details

This function provides the content for the hitlayoutparameters option of `CreateHIT`. Specifically, a HIT Template created in the MTurk Requester User Interface (RUI) has a number of placeholder variables for content to be inserted. This function supplies the content to be inserted into the template for one HIT. If multiple HITs are being created from one template, then `GenerateHITLayoutParameter` should be run once for each HIT.

Analogous functionality for producing .html files on the local workstation (e.g., to create multiple external HITs from the same template) is provided by `GenerateHITsFromTemplate`.
GenerateHITsFromTemplate

Description

Generate individual HIT .html files from a local .html HIT template file, in the same fashion as the MTurk Requester User Interface (RUI). This function facilitates the use of ExternalQuestion data structures.

Usage

GenerateHITsFromTemplate(template, input, filenames = NULL, write.files = FALSE)
GenerateHITsFromTemplate

Arguments

- **template**: A file handle for an .html HIT template saved in the working directory.
- **input**: A dataframe containing one row for each HIT to be created and columns named identically to the placeholders in the HIT template file. Operation will fail if variable names do not correspond.
- **filenames**: An optional list of filenames for the HITs to be created. Must be equal to the number of rows in input.
- **write.files**: A logical specifying whether HIT .html files should be created and stored in the working directory. Or, alternatively, whether HITs should be returned as character vectors in a list.

Details

Generate HITs from a HIT template (containing placeholders for input data). The tool provides functionality analogous to the MTurk RUI HIT template and can be performed on .html files generated therein.

hitsfromtemplate() is an alias.

Value

If write.files=FALSE, a list containing a character string for each HIT generated from the template. Otherwise, one or more HITs in the form of .html files stored in the working directory, with filenames specified by the filenames option or, if filenames=NULL of the form “NewHIT1.html”, “NewHIT2.html”, etc.

Author(s)

Thomas J. Leeper

References

- API Reference: Operation
- API Reference: ExternalQuestion Data Structure

Examples

```r
## Not run:
a <- data.frame(c("HIT text 1","HIT text 2","HIT text 3"))
names(a) <- "hitvariable"
GenerateHITsFromTemplate("mynewhit.html",input=a,write.files=TRUE)

## End(Not run)
```
GenerateHTMLQuestion

**Generate HTMLQuestion**

---

**Description**

Generate an HTMLQuestion data structure for use in the ‘Question’ parameter of CreateHIT.

**Usage**

GenerateHTMLQuestion(character = NULL, file = NULL, frame.height = 450)

**Arguments**

- **character**: An optional character string from which to construct the HTMLQuestion data structure.
- **file**: An optional character string containing a filename from which to construct the HTMLQuestion data structure.
- **frame.height**: A character string containing the integer value (in pixels) of the frame height for the HTMLQuestion iframe.

**Details**

Must specify either character or file.

**Value**

A list containing xml.parsed, an XML data structure, string, xml formatted as a character string, and url.encoded, character string containing a URL query parameter-formatted HTMLQuestion data structure for use in the question parameter of CreateHIT.

**Author(s)**

Thomas J. Leeper

**References**

API Reference

**See Also**

CreateHIT
GenerateExternalQuestion
GenerateHITLayoutParameter
GenerateNotification

Examples

```r
## Not run:
GenerateHTMLQuestion(file="mynewhit.html")

## End(Not run)
```

Description

Generate a HITType Notification data structure for use in `SetHITTypeNotification`.

Usage

```r
GenerateNotification(destination, transport = "Email", event.type, version = "2006-05-05", event.number = "1", format = "REST")
```

Arguments

- `destination`: Currently, a character string containing a complete email address.
- `transport`: Currently only "Email" is supported.
- `event.type`: A character string containing one of: AssignmentAccepted, AssignmentAbandoned, AssignmentReturned, AssignmentSubmitted, HITReviewable, HITExpired, Ping.
- `version`: Version of the HITType Notification API to use. Intended only for advanced users.
- `event.number`: Intended only for advanced users to construct custom Notifications.
- `format`: Format of QualificationRequirement (SOAP or REST). Currently only REST is supported (as is the default).

Details

Generate a Notification data structure for use in the notification option of `SetHITTypeNotification`.

Value

A character string containing a URL query parameter-formatted Notification data structure.

Author(s)

Thomas J. Leeper

References

API Reference
GenerateQualificationRequirement

See Also

SetHITTypeNotification
SendTestEventNotification

Examples

```r
## Not run:
a <- GenerateNotification("requester@example.com",event.type="HITExpired")

## End(Not run)
```

---

## Description

Generate a QualificationRequirement data structure for use with CreateHIT or RegisterHITType.

## Usage

```r
GenerateQualificationRequirement(qual, comparator, value, preview = NULL, qual.number = NULL, format = "REST")
```

## Arguments

- **qual**: A character string containing a QualificationTypeId, or a vector of QualificationTypeIds. This parameter also accepts shorthand labels for built-in QualificationTypes: “Submitted”, “Accepted”, “”, “Abandoned”, “Returned”, “Approved”, “Rejected”, “NumberApproved”, “Locale”, “Adult”, and MTurk “masters” QualificationTypes (“Masters”, “Categorization”, or “Photo Moderation”).

- **comparator**: A character string containing a comparator, or a vector of comparators, by which a worker's score of a qualification is compared to the specified value. One of `<`, `<=`, `>`, `>=`, `==`, `!=`, `Exists`. For “Masters”-type qualifications, only `Exists` is available.

- **value**: A numeric or character string value (or vector of such) against which workers scores will be compared. Must be a non-negative integer.

- **preview**: An optional logical specifying whether a worker must have the Qualification in order to preview the HIT on the MTurk worker site. The default is `FALSE`.

- **qual.number**: An optional integer. Intended only for advanced users to construct custom QualificationRequirements.

- **format**: Format of QualificationRequirement (SOAP or REST). Currently only REST is supported (and is the default).
**GenerateReviewPolicy**

Details

A convenience function to translate the details of a QualificationRequirement into the necessary structure for use in the `qual.req` parameter of `CreateHIT` or `RegisterHITType`. The function accepts three required parameters: `qual`, `comparator`, and `value`. `qual` must be a valid QualificationTypeId for either a built-in QualificationType (see `ListQualificationTypes`) or a custom QualificationType (e.g., one created with `CreateQualificationType`). Multiple QualificationRequirements can be generated in one call — that is, if a requester intends to impose multiple QualificationRequirements on a single HITType, those requirements must be specified in a single call to `GenerateQualificationRequirements`. Once attached to a HITType, only workers who meet all of the specified QualificationRequirements can complete assignments for a HIT of that HITType.

Value

Returns a character string containing one or more QualificationRequirements in the form of URL query parameters.

Author(s)

Thomas J. Leeper

References

API Reference

See Also

`CreateHIT`
`RegisterHITType`

Examples

```r
## Not run:
a <- ListQualificationTypes()$[6,2] # Number of HITs Approved
b <- GenerateQualificationRequirement(a,">","90")
## End(Not run)
```

---

**GenerateReviewPolicy**  
*Generate HIT and/or Assignment ReviewPolicies*

Description

Generate a HIT ReviewPolicy and/or Assignment ReviewPolicy data structure for use in `CreateHIT`.

Usage

```
GenerateReviewPolicy(hitpolicy = NULL, assignpolicy = NULL)
```
Arguments

hitpolicy       An optional list.
assignpolicy    An optional list.

Details

Convert an R list into a ReviewPolicy data structure. See examples.

Value

Returns a list containing one or two named lists, HITReviewPolicy and/or AssignmentReviewPolicy as parsed XML, string, and url-encoded string.

Author(s)

Thomas J. Leeper

References

API Reference: QuestionForm
API Reference (ReviewPolicies)
API Reference (Data Structure)

Examples

```r
## Not run:
lista <- list( QuestionIds=c("Question1","Question2","Question5"),
QuestionIdAgreementThreshold=8,
ExtendMinimumTimeInSeconds=3600)
hpolicy <- GenerateReviewPolicy(hitpolicy=lista)

## End(Not run)
## Not run:
listb <- list( AnswerKey=list( list(Key="QuestionId3",Value="B"),
list(Key="QuestionId7",Value="A"),
list(Key="QuestionId15",Value="C")),
ExtendIfKnownAnswerScoreIsLessThan=80,
ExtendMaximumAssignments=3)
apolicy <- GenerateReviewPolicy(assignpolicy=listb)

## End(Not run)
```
**Description**

A function designed for advanced users to be able to make arbitrary requests to the MTurk API. Most users do not need this.

**Usage**

```r
genericmturkr(operation, parameters = NULL, keypair = credentials(), print = TRUE, browser = FALSE, log.requests = TRUE, sandbox = FALSE, xml.parse = TRUE)
makeGETparameters(parameter, value)
```

**Arguments**

- **operation**: The MTurk API operation to be performed.
- **parameters**: A character string containing URL query parameters, possibly as returned by `makeGETparameters`.
- **keypair**: A two-item character vector containing an AWS Access Key ID in the first position and the corresponding Secret Access Key in the second position. Set default with `credentials`.
- **print**: Optionally print the results of the API request to the standard output. Default is `TRUE`.
- **browser**: Optionally open the request in the default web browser, rather than opening in R. Default is `FALSE`.
- **log.requests**: A logical specifying whether API requests should be logged. Default is `TRUE`. See `readlogfile` for details.
- **sandbox**: Optionally execute the request in the MTurk sandbox rather than the live server. Default is `FALSE`.
- **xml.parse**: Whether the returned list should contain parsed XML.
- **parameter**: A character string containing a parameter name, or a vector of character strings containing parameter names.
- **value**: A character string containing a value for a parameter, or a vector of character strings containing the value for each of the parameters specified in `parameter`.

**Details**

A simple wrapper for `authenticate` and `request` to provide advanced users with generic access to the MTurk API. `genericmturkr` executes arbitrary MTurk API requests for the specified MTurk API operation and any parameters. `makeGETparameters` provides a convenience function to generate these. Though this function does not underly the other MTurkR functions, it can produce similar effects (though response information is returned unformatted).
Value

A list containing the URL of the MTurk API REST request (`request.url`), the Request ID created by the API request (`request.id`), a logical indicating whether or not the request was valid and thus executed as intended (`valid`), and a character string containing the XML-formatted API response (`xml`).

Author(s)

Thomas J. Leeper

References

API Reference: Making REST Requests

Examples

```r
## Not run:
genericmturk("GetAccountBalance")

## End(Not run)

## Not run:
a <- makeGETparameters("AssignmentId","26XXH0JPPSI23H54YVG7BKLEXAMPLE")
data <- genericmturk("GetAssignment",a)

## End(Not run)
```

GetAssignment  Get Assignment(s)

Description

Get an assignment or multiple assignments for one or more HITs (or a HITType) as a dataframe.

Usage

```r
GetAssignment( assignment = NULL, hit = NULL, hit.type = NULL, status = NULL,
return.all = FALSE, pagenumber = "1", pagesize = "10",
sortproperty = "SubmitTime", sortdirection = "Ascending",
response.group = NULL, keypair = credentials(), print = TRUE, browser = FALSE,
log.requests = TRUE, sandbox = FALSE, return.assignment.dataframe = TRUE)
```

Arguments

- `assignment`: An optional character string specifying the AssignmentId of an assignment to return.
- `hit`: An optional character string specifying the HITId whose assignments are to be returned, or a vector of character strings specifying multiple HITIds all of whose assignments are to be returned.
hit.type An optional character string specifying the HITTypeId of one or more HITs whose assignments are to be returned.

status An optional character string (of “Approved”, “Rejected”, “Submitted”), specifying whether only a subset of assignments should be returned. If NULL, all assignments are returned (the default). Only applies when hit or hit.type are specified; ignored otherwise.

return.all If TRUE, all available assignments are returned. Otherwise, only assignments falling within the specified pagename and pagesize search results are returned.

pagenumber An optional character string indicating which page of search results should be returned (only appropriate when specifying a single HITId). Most users can ignore this.

pagesize An optional character string indicating how many search results should be returned by each request (only appropriate when specifying a single HITId), between 1 and 100. Most users can ignore this.

sortproperty One of “AcceptTime”, “SubmitTime”, “AssignmentStatus”. Ignored if return.all=TRUE. Most users can ignore this.

sortdirection Either “Ascending” or “Descending”. Ignored if return.all=TRUE. Most users can ignore this.

response.group An optional character string (or vector of character strings) specifying what details to return. If assignment is specified, response.group can include any of “Request”, “Minimal”, “AssignmentFeedback”, “HITDetail”, and/or “HITQuestion”. If hit or hit.type is specified, response.group can include “Request”, “Minimal”, and/or “AssignmentFeedback”. For more information, see http://docs.aws.amazon.com/AWSMechTurk/latest/AWSMturkAPI/ApiReference_CommonParametersArticle.html.

keypair A two-item character vector containing an AWS Access Key ID in the first position and the corresponding Secret Access Key in the second position. Set default with credentials.

print Optionally print the results of the API request to the standard output. Default is TRUE.

browser Optionally open the request in the default web browser, rather than opening in R. Default is FALSE.

log.requests A logical specifying whether API requests should be logged. Default is TRUE. See readlogfile for details.

sandbox Optionally execute the request in the MTurk sandbox rather than the live server. Default is FALSE.

return.assignment.dataframe A logical specifying whether the Assignment dataframe should be returned. Default is TRUE.

Details

This function returns the requested assignments. The function must specify an AssignmentId xor a HITId xor a HITTypeId. If an AssignmentId is specified, only that assignment is returned. If a HIT
or HITType is specified, default behavior is to return all assignments through a series of sequential (but invisible) API calls meaning that returning large numbers of assignments (or assignments for a large number of HITs in a single request) may be time consuming.

GetAssignments(), assignment(), and assignments() are aliases.

Value

Optionally a dataframe containing Assignment data, including workers responses to any questions specified in the question parameter of the CreateHIT function.

Author(s)

Thomas J. Leeper

References

API Reference: GetAssignment
API Reference: GetAssignmentsForHIT

See Also

GetHIT
ApproveAssignment
ApproveAllAssignments
RejectAssignment

Examples

```r
## Not run:
GetAssignment(assignments="26XXH0JPPSI23H54YVG7BKLEXAMPLE")
GetAssignment(hit="2MQB727MOIGF304GJ1651F4VE3AYDQ",return.all=TRUE)
GetAssignment(hit.type="2FFNCWYB49F9BJWA4SJUNST50F5OW",return.all=FALSE,pagenumber="1",pagesize="50")
## End(Not run)
```

### Description

Get details of bonuses paid to workers, by HIT, HITType, or Assignment.

### Usage

```r
GetBonuses(assignment = NULL, hit = NULL, hit.type = NULL, return.all = TRUE, pagenumber = "1", pagesize = "100", keypair = credentials(), print = TRUE, log.requests = TRUE, sandbox = FALSE, return.bonus.dataframe = TRUE)
```
Arguments

- assignment: An optional character string containing an AssignmentId whose bonuses should be returned.
- hit: An optional character string containing a HITId whose bonuses should be returned.
- hit.type: An optional character string containing a HITTypeId whose bonuses should be returned.
- return.all: A logical indicating whether all HITs (as opposed to a specified page of the search results) should be returned. Default is TRUE.
- pagenumber: An optional character string indicating which page of search results should be returned. Most users can ignore this.
- pagesize: An optional character string indicating how many search results should be returned by each request, between 1 and 100. Most users can ignore this.
- keypair: A two-item character vector containing an AWS Access Key ID in the first position and the corresponding Secret Access Key in the second position. Set default with credentials.
- print: Optionally print the results of the API request to the standard output. Default is TRUE.
- log.requests: A logical specifying whether API requests should be logged. Default is TRUE. See readlogfile for details.
- sandbox: Optionally execute the request in the MTurk sandbox rather than the live server. Default is FALSE.
- return.bonus.dataframe: A logical specifying whether to return the Bonus dataframe.

Details

Retrieve bonuses previously paid to a specified HIT, Assignment, or HITType. bonuses() is an alias.

Value

A dataframe containing the details of each bonus, specifically: AssignmentId, WorkerId, Amount, CurrencyCode, FormattedPrice, Reason, and GrantTime.

Author(s)

Thomas J. Leeper

References

API Reference

See Also

GrantBonus
Examples

```r
# Not run:
GetBonuses(hit="2MQ8727M0IGF304GJ1651F4VE3AYDQ")
GetBonuses(assignment="26XXH0PPS123H54YVG7BKLO82DHN"

# End(Not run)
```

## Description

Get the URL for a file uploaded by a worker as part of a HIT, or download the file(s) directly to the working directory.

## Usage

```r
GetFileUpload(assignment, questionIdentifier, download = FALSE, file.ext = NULL, open.file.in.browser = FALSE, keypair = credentials(), print = TRUE, browser = FALSE, log.requests = TRUE, sandbox = FALSE)
```

## Arguments

- `assignment`: A character string containing an AssignmentId, or a vector of character strings each containing an AssignmentId.
- `questionIdentifier`: A question identifier for a file upload question, as specified in the question parameter of `CreateHIT` or in the placeholder of a HIT template created in the RUI.
- `download`: A logical specifying whether the file(s) should be downloaded and saved in the working directory. Default is `FALSE`.
- `file.ext`: An optional character string specifying the file extension of the uploaded files (used only if `download=TRUE`).
- `open.file.in.browser`: A logical specifying whether the file should be opened in the user’s default web browser.
- `keypair`: A two-item character vector containing an AWS Access Key ID in the first position and the corresponding Secret Access Key in the second position. Set default with `credentials()`.
- `print`: Optionally print the results of the API request to the standard output. Default is `TRUE`.
- `browser`: Optionally open the request in the default web browser, rather than opening in R. Default is `FALSE`.
- `log.requests`: A logical specifying whether API requests should be logged. Default is `TRUE`. See `readlogfile` for details.
- `sandbox`: Optionally execute the request in the MTurk sandbox rather than the live server. Default is `FALSE`. 

GetFileUpload

Get Files Uploaded by Workers
Details

Note that a FileUploadURL is only valid for 60 seconds (per MTurk documentation), so URLs should either be retrieved one at a time or files should be automatically downloaded to the working directory with the download=TRUE. If browser=TRUE, request is executed in the user’s default web browser, whereas if open.file.in.browser=TRUE, the request is executed in R and the file itself is opened in the browser.

geturls() is an alias.

Value

Depending on the specification, either a character string containing a temporary URL (which lasts 60 seconds) where the uploaded file can be downloaded, or the files themselves are opened in the user’s default web browser, or directly downloaded and saved to the working directory.

Author(s)

Thomas J. Leeper

References

API Reference

Examples

## Not run:
GetFileUpload("26XXH0JPPSI23H54YVG78KLO82DHNJ","dictation",download=TRUE)

## End(Not run)

Description

Retrieve various details of a HIT as a dataframe. What details are returned depend upon the requested ResponseGroup.

Usage

GetHIT( hit, response.group = NULL, keypair = credentials(), print = TRUE, browser = FALSE, log.requests = TRUE, sandbox = FALSE, return.hit.dataframe = TRUE, return.qual.dataframe = TRUE)

HITStatus( hit = NULL, hit.type = NULL, keypair = credentials(), print = TRUE, log.requests = TRUE, sandbox = FALSE)
GetHIT retrieves characteristics of a HIT. HITStatus is a wrapper that retrieves the Number of Assignments Pending, Number of Assignments Available, Number of Assignments Completed for the HIT(s), which is helpful for checking on the progress of currently available HITs. Specifying a hit.type causes the function to first search for avaliable HITs of that HITType, then return the requested information for each HIT.

gethit() and hit() are aliases for GetHIT. status() is an alias for HITStatus.

Value

Optionally a dataframe containing the HITs and a list of each HIT’s QualificationRequirements (stored as dataframes in that list in the order that HITs were retrieved.). The exact characteristics of each HIT returned depend upon the response.group parameter.

Author(s)

Thomas J. Leeper
GetHITsForQualificationType

References

API Reference

See Also

GetHITsForQualificationType
GetReviewableHITs
SearchHITs

Examples

## Not run:
GetHIT("2MQB727M0IGF304GJ16S1F4VE3AYDQ")
HITStatus("2MQB727M0IGF304GJ16S1F4VE3AYDQ")
hits <- c("2MQB727M0IGF304GJ16S1F4VE3AYDQ","AM4DB727M0IGF304GJ16S1F4VE36JIQ")
HITStatus(hits)

## End(Not run)

GetHITsForQualificationType

Get HITs by Qualification

Description

Retrieve HITs according to the QualificationTypes that are required to complete those HITs.

Usage

GetHITsForQualificationType(qual, response.group = NULL, return.all = TRUE,
pagenumber = 1, pagesize = 100,
keypair = credentials(), print = TRUE,
log.requests = TRUE, sandbox = FALSE,
return.hit.dataframe = TRUE)

Arguments

qual A character string containing a QualificationTypeId.
response.group An optional character string specifying what details of each HIT to return of:
“Minimal”, “HITQuestion”, “HITDetail”, “HITAssignmentSummary”. For more
information, see http://docs.amazonwebservices.com/AWSMechTurk/latest/AWSMturkAPI/ApiReference_HITDataStructureArticle.html.
return.all A logical indicating whether all QualificationTypes (as opposed to a specified
page of the search results) should be returned. Default is TRUE.
pagenumber An optional character string indicating which page of search results should be
returned. Most users can ignore this.
GetHITsForQualificationType

pagesize  An optional character string indicating how many search results should be returned by each request, between 1 and 100. Most users can ignore this.

keypair    A two-item character vector containing an AWS Access Key ID in the first position and the corresponding Secret Access Key in the second position. Set default with credentials.

print      Optionally print the results of the API request to the standard output. Default is TRUE.

log.requests A logical specifying whether API requests should be logged. Default is TRUE. See readlogfile for details.

sandbox    Optionally execute the request in the MTurk sandbox rather than the live server. Default is FALSE.

return.hit.dataframe A logical indicating whether the HIT dataframe should be returned. Default is TRUE.

Details

A function to retrieve HITs that require the specified QualificationType.
gethitsbyqual() is an alias.

Value

A data frame containing the HITId and other requested characteristics of the qualifying HITs.

Author(s)

Thomas J. Leeper

References

API Reference

See Also

GetHIT
SearchHITs

Examples

## Not run:
q <- ListQualificationTypes()[7,2] # Location requirement
GetHITsForQualificationType(q)

## End(Not run)
GetQualificationRequests

Get Qualification Requests

Description

Retrieve workers’ requests for a QualificationType.

Usage

GetQualificationRequests(qual = NULL, return.all = TRUE, pagenumber = "1", pagesize = "10", sortproperty = "SubmitTime", sortdirection = "Ascending", keypair = credentials(), print = TRUE, log.requests = TRUE, sandbox = FALSE, return.qual.dataframe = TRUE)

Arguments

qual An optional character string containing a QualificationTypeId to which the search should be restricted. If none is supplied, requests made for all QualificationTypes are returned.

return.all A logical indicating whether all QualificationRequestss (as opposed to a specified page of the search results) should be returned. Default is TRUE.

pagenumber An optional character string indicating which page of search results should be returned. Most users can ignore this.

pagesize An optional character string indicating how many search results should be returned by each request, between 1 and 100. Most users can ignore this.

sortproperty Either “SubmitTime” or “QualificationTypeId”. Ignored if return.all=TRUE. Most users can ignore this.

sortdirection Either “Ascending” or “Descending”. Ignored if return.all=TRUE. Most users can ignore this.

keypair A two-item character vector containing an AWS Access Key ID in the first position and the corresponding Secret Access Key in the second position. Set default with credentials.

print Optionally print the results of the API request to the standard output. Default is TRUE.

log.requests A logical specifying whether API requests should be logged. Default is TRUE. See readlogfile for details.

sandbox Optionally execute the request in the MTurk sandbox rather than the live server. Default is FALSE.

return.qual.dataframe A logical indicating whether the QualificationTypes should be returned as a dataframe. Default is TRUE.
Details
A function to retrieve pending Qualification Requests made by workers, either for a specified QualificationType or all QualificationTypes. Specifically, all active, custom QualificationTypes are visible to workers, and workers can request a QualificationType (e.g., when a HIT requires one they do not have). This function retrieves those requests so that they can be granted (with `GrantQualification`) or rejected (with `RejectQualification`).

`qualrequests()` is an alias.

Value
A dataframe containing the QualificationRequestId, WorkerId, and other information (e.g., Qualification Test results) for each request.

Author(s)
Thomas J. Leeper

References
API Reference

See Also
- `GrantQualification`
- `RejectQualification`

Examples
```
## Not run:
GetQualificationRequests()
GetQualificationRequests("2YCIAORYNJ9262B1D82MPTUEXAMPLE")
## End(Not run)
```

GetQualifications  Get Qualifications

Description
Get all Qualifications of a particular QualificationType assigned to Workers.

Usage
```
GetQualifications( qual, status = NULL, return.all = TRUE,
  pagenumber = 1, pagesize = 100,
  keypair = credentials(), print = TRUE,
  log.requests = TRUE, sandbox = FALSE, return.qual.dataframe = TRUE)
```
**GetQualifications**

**Arguments**

- **qual**
  A character string containing a QualificationTypeId for a custom (i.e., not built-in) QualificationType.

- **status**
  An optional character string specifying whether only “Granted” or “Revoked” Qualifications should be returned.

- **return.all**
  A logical indicating whether all Qualifications (as opposed to a specified page of the search results) should be returned. Default is TRUE.

- **pagename**
  An optional character string indicating which page of search results should be returned. Most users can ignore this.

- **pagesize**
  An optional character string indicating how many search results should be returned by each request, between 1 and 100. Most users can ignore this.

- **keypair**
  A two-item character vector containing an AWS Access Key ID in the first position and the corresponding Secret Access Key in the second position. Set default with credentials.

- **print**
  Optionally print the results of the API request to the standard output. Default is TRUE.

- **log.requests**
  A logical specifying whether API requests should be logged. Default is TRUE. See readlogfile for details.

- **sandbox**
  Optionally execute the request in the MTurk sandbox rather than the live server. Default is FALSE.

- **return.qual.dataframe**
  A logical specifying whether the Qualification dataframe should be returned. Default is TRUE.

**Details**

A function to retrieve Qualifications granted for the specified QualificationType. To retrieve a specific Qualification score (e.g., for one worker), use GetQualificationScore. getquals() is an alias.

**Value**

A dataframe containing the QualificationTypeId, WorkerId, and Qualification scores of workers assigned the Qualification.

**Author(s)**

Thomas J. Leeper

**References**

API Reference

**See Also**

GetQualificationScore
UpdateQualificationScore
Examples

```r
## Not run:
GetQualifications("2YCIA0RYNJ9262B1082MPTUEXAMPLE")
GetQualifications("2YCIA0RYNJ9262B1082MPTUEXAMPLE", status="Revoked")
## End(Not run)
```

Description

Get a Worker’s score for a specific Qualification. You can only retrieve scores for custom QualificationTypes. Scores for built-in QualificationTypes should be retrieved with `GetWorkerStatistic`.

Usage

```r
GetQualificationScore( qual, workers, keypair = credentials(),
  print = TRUE, browser = FALSE,
  log.requests = TRUE, sandbox = FALSE)
```

Arguments

- **qual**: A character string containing a QualificationTypeId for a custom QualificationType.
- **workers**: A character string containing a WorkerId, or a vector of character strings containing multiple WorkerIds, whose Qualification Scores you want to retrieve.
- **keypair**: A two-item character vector containing an AWS Access Key ID in the first position and the corresponding Secret Access Key in the second position. Set default with `credentials`.
- **print**: Optionally print the results of the API request to the standard output. Default is `TRUE`.
- **browser**: Optionally open the request in the default web browser, rather than opening in R. Default is `FALSE`.
- **log.requests**: A logical specifying whether API requests should be logged. Default is `TRUE`. See `readlogfile` for details.
- **sandbox**: Optionally execute the request in the MTurk sandbox rather than the live server. Default is `FALSE`.

Details

A function to retrieve one or more scores for a specified QualificationType. To retrieve all Qualifications of a given QualificationType, use `GetQualifications` instead.

`qualscore()` is an alias.
GetQualificationType

Value
A dataframe containing the WorkerId, QualificationTypeId, and the Qualification score for each request.

Author(s)
Thomas J. Leeper

References
API Reference

See Also
UpdateQualificationScore
GetQualifications

Examples
## Not run:
GetQualificationScore("2YCIA0RYNJ9262B1D82MPTUEXAMPLE","A1RO9UJNWXMU65")

## End(Not run)

GetQualificationType Get QualificationType

Description
Get the details of a Qualification Type.

Usage
GetQualificationType(qual, keypair = credentials(), print = TRUE, browser = FALSE, log.requests = TRUE, sandbox = FALSE, return.qual.dataframe = TRUE)

Arguments
qual A character string containing a QualificationTypeId.
keypair A two-item character vector containing an AWS Access Key ID in the first position and the corresponding Secret Access Key in the second position. Set default with credentials.
print Optionally print the results of the API request to the standard output. Default is TRUE.
browser Optionally open the request in the default web browser, rather than opening in R. Default is FALSE.
log.requests  A logical specifying whether API requests should be logged. Default is TRUE. See `readlogfile` for details.

sandbox  Optionally execute the request in the MTurk sandbox rather than the live server. Default is FALSE.

return.qual.dataframe

Details

Retrieve characteristics of a specified QualificationType (as originally specified by `CreateQualificationType`). `qualtype()` is an alias.

Value

A dataframe containing the QualificationTypeId of the newly created QualificationType and other details as specified in the request.

Author(s)

Thomas J. Leeper

References

API Reference

See Also

`CreateQualificationType`
`UpdateQualificationType`
`DisposeQualificationType`
`SearchQualificationTypes`

Examples

```r
## Not run:
GetQualificationType("2YCI4RYN92G2B1D82MPTUEXAMPLE")

## End(Not run)
```
GetReviewableHITs  

Description

Get HITs that are currently reviewable.

Usage

GetReviewableHITs( hit.type = NULL, status = NULL, response.group = "Minimal", return.all = TRUE, pagenumber = "1", pagesize = "10", sortproperty = "Enumeration", sortdirection = "Ascending", keypair = credentials(), print = TRUE, log.requests = TRUE, sandbox = FALSE)

Arguments

hit.type An optional character string containing a HITTypeId to consider when looking for reviewable HITs.

status An optional character string of either “Reviewable” or “Reviewing” limiting the search to HITs of with either status.

response.group A character string specifying what details of each HIT to return. API currently only supports “Minimal”. For more information, see http://docs.amazonawsservices.com/AWSMechTurk/latest/AWSMturkAPI/ApiReference_HITDataStructureArticle.html.

return.all A logical indicating whether all QualificationTypes (as opposed to a specified page of the search results) should be returned. Default is TRUE.

pagenumber An optional character string indicating which page of search results should be returned. Most users can ignore this.

pagesize An optional character string indicating how many search results should be returned by each request, between 1 and 100. Most users can ignore this.

sortproperty One of “Title”, “Reward”, “Expiration”, “CreationTime”, “Enumeration”. Ignored if return.all=TRUE. Most users can ignore this.

sortdirection Either “Ascending” or “Descending”. Ignored if return.all=TRUE. Most users can ignore this.

keypair A two-item character vector containing an AWS Access Key ID in the first position and the corresponding Secret Access Key in the second position. Set default with credentials.

print Optionally print the results of the API request to the standard output. Default is TRUE.

log.requests A logical specifying whether API requests should be logged. Default is TRUE. See readlogfile for details.

sandbox Optionally execute the request in the MTurk sandbox rather than the live server. Default is FALSE.
Details

A simple function to return the HITIds of HITs currently in “Reviewable” or “Reviewing” status. To retrieve additional details about each of these HITs, see GetHIT. This is an alternative to SearchHITs.

reviewable() is an alias.

Value

A dataframe containing only a column of HITIds.

Author(s)

Thomas J. Leeper

References

API Reference

See Also

GetHIT
GetHITsForQualificationType
SearchHITs

Examples

```r
## Not run:
GetReviewableHITs()

## End(Not run)
```

---

GetReviewResultsForHIT

*Get ReviewPolicy Results for a HIT*

Description

Get HIT- and/or Assignment-level ReviewPolicy Results for a HIT

Usage

```r
GetReviewResultsForHIT( hit, assignment = NULL, policy.level = NULL,
                          retrieve.results = TRUE, retrieve.actions = TRUE,
                          keypair = credentials(), print = TRUE,
                          browser = FALSE, log.requests = TRUE, sandbox = FALSE)
```
GetReviewResultsForHIT

Arguments

hit A character string containing a HITId.

assignment An optional character string containing an AssignmentId. If specified, only results pertaining to that assignment will be returned.

policy.level Either HIT or Assignment. If omitted, the default behavior is to retrieve all data for both policy levels.

retrieve.results Optionally retrieve ReviewResults. Default is TRUE.

retrieve.actions Optionally retrieve ReviewActions. Default is TRUE.

keypair A two-item character vector containing an AWS Access Key ID in the first position and the corresponding Secret Access Key in the second position. Set default with credentials.

print Optionally print the results of the API request to the standard output. Default is TRUE.

browser Optionally open the request in the default web browser, rather than opening in R. Default is FALSE.

log.requests A logical specifying whether API requests should be logged. Default is TRUE. See readlogfile for details.

sandbox Optionally execute the request in the MTurk sandbox rather than the live server. Default is FALSE.

Details

A simple function to return the results of a ReviewPolicy. This is intended only for advanced users, who should reference MTurk documentation for further information.

reviewresults is an alias.

Value

A list containing up to four named dataframes, depending on what ReviewPolicy (or ReviewPolicies) were attached to the HIT: AssignmentReviewResult, AssignmentReviewAction, HITReviewResult, HITReviewAction.

Author(s)

Thomas J. Leeper

References

API Reference
API Reference (ReviewPolicies)
API Reference (Data Structure)
See Also

CreateHIT

Examples

## Not run:
GetReviewResultsForHIT()

## End(Not run)

## Mturk Worker and Requester Statistics

Description

Get a requester statistic or a statistic for a particular worker. RequesterReport and WorkerReport provide wrappers that return all available statistics.

Usage

GetStatistic( statistic, period = "LifeToDate", count = NULL, response.group = NULL, keypair = credentials(), print = TRUE, browser = FALSE, log.requests = TRUE, sandbox = FALSE)

RequesterReport(period = "LifeToDate", keypair = credentials(), log.requests = TRUE, sandbox = FALSE, print = TRUE)

GetWorkerStatistic( worker, statistic, period = "LifeToDate", count = NULL, response.group = NULL, keypair = credentials(), print = TRUE, browser = FALSE, log.requests = TRUE, sandbox = FALSE)

WorkerReport( worker, period = "LifeToDate", keypair = credentials(), log.requests = TRUE, sandbox = FALSE, print = TRUE)

Arguments

worker A character string containing a WorkerId.

statistic A character string containing the name of a statistic. Statistics can be retrieved from ListStatistics.

period One of: “OneDay”, “SevenDays”, “ThirtyDays”, “LifeToDate”. Default is “LifeToDate”.

count If period="OneDay", the number of days to return. Default is 1 (the most recent day).

response.group An optional character string (or vector of character strings) specifying what details to return of “Request”, “Minimal”, or “Parameters”. For more information, see http://docs.aws.amazon.com/AWSMechTurk/latest/AWSMturkAPI/ApiReference_CommonParametersArticle.html.
keypair A two-item character vector containing an AWS Access Key ID in the first position and the corresponding Secret Access Key in the second position. Set default with `credentials`.

print Optionally print the results of the API request to the standard output. Default is `TRUE`.

browser Optionally open the request in the default web browser, rather than opening in `R`. Default is `FALSE`.

log.requests A logical specifying whether API requests should be logged. Default is `TRUE`. See `readlogfile` for details.

sandbox Optionally execute the request in the MTurk sandbox rather than the live server. Default is `FALSE`.

Details

Retrieve a specific requester or worker statistic. The list of available statistics can be retrieved by calling `ListStatistics`. Useful for monitoring workers or one’s own use of the requester system. `statistic()` is an alias for `GetStatistic`. `workerstatistic()` is an alias for `GetWorkerStatistic`.

Value

A dataframe containing the requested Statistic (and WorkerId, if `GetWorkerStatistic` or `WorkerReport` are called), and the value thereof. `GetStatistic` and `GetWorkerStatistic` return only the requested statistic. `RequesterReport` and `WorkerReport` return all of the requester and worker statistics, respectively, that are available in `ListStatistics`.

Author(s)

Thomas J. Leeper

References

API Reference: Requester Statistics
API Reference: Worker Statistics

See Also

`ListStatistics`

Examples

```r
## Not run:
GetStatistic("NumberHITsSubmitted","OneDay")
RequesterReport("ThirtyDays")
GetWorkerStatistic("A1RO9UJNWXMU65","PercentHITsApproved","LifeToDate")
WorkerReport("A1RO9UJNWXMU65","SevenDays")

## End(Not run)
```
GrantBonus

**Pay Bonus to Worker**

### Description
Pay a bonus to one or more workers. This function spends money from your MTurk account and will fail if insufficient funds are available.

### Usage
```r
GrantBonus( workers, assignments, amounts, reasons,
            keypair = credentials(), print = FALSE, browser = FALSE,
            log.requests = TRUE, sandbox = FALSE)
```

### Arguments
- **workers**: A character string containing a WorkerId, or a vector of character strings containing multiple WorkerIds.
- **assignments**: A character string containing an AssignmentId for an assignment performed by that worker, or a vector of character strings containing the AssignmentId for an assignment performed by each of the workers specified in `workers`.
- **amounts**: A character string containing an amount (in U.S. Dollars) to bonus the worker(s), or a vector (of length equal to the number of workers) of character strings containing the amount to be paid to each worker.
- **reasons**: A character string containing a reason for bonusing the worker(s), or a vector (of length equal to the number of workers) of character strings containing the reason to bonus each worker. The reason is visible to each worker.
- **keypair**: A two-item character vector containing an AWS Access Key ID in the first position and the corresponding Secret Access Key in the second position. Set default with `credentials`.
- **print**: Optionally print the results of the API request to the standard output. Default is `TRUE`.
- **browser**: Optionally open the request in the default web browser, rather than opening in R. Default is `FALSE`.
- **log.requests**: A logical specifying whether API requests should be logged. Default is `TRUE`. See `readlogfile` for details.
- **sandbox**: Optionally execute the request in the MTurk sandbox rather than the live server. Default is `FALSE`.

### Details
A simple function to grant a bonus to one or more workers. The function is somewhat picky in that it requires a WorkerId, the AssignmentId for an assignment that worker has completed, an amount, and a reason for the bonus, for each bonus to be paid. Optionally, the amount and reason can be specified as single (character string) values, which will be used for each bonus.

`bonus()` and `paybonus()` are aliases.
Value

A dataframe containing the WorkerId, AssignmentId, amount, reason, and whether each request to bonus was valid.

Author(s)

Thomas J. Leeper

References

API Reference

See Also

GetBonuses

Examples

```r
## Not run:
a <- "A1R09UEXAMPLE"
b <- "26XXH0JPPS123H54YVG7BKLEXAMPLE"
c <- ".50"
d <- "Thanks for your great work on my HITs!"
GrantBonus(workers=a,assignments=b,amounts=c,reasons=d)

## End(Not run)
## Not run:
a <- c("A1R09EXAMPLE1","A1R09EXAMPLE2","A1R09EXAMPLE3")
b <-
c("26XXH0JPPS123H54YVG7BKLEXAMPLE1",
 "26XXH0JPPS123H54YVG7BKLEXAMPLE2",
 "26XXH0JPPS123H54YVG7BKLEXAMPLE3")
c <- c(".50",".10",".25")
d <- "Thanks for your great work on my HITs!"
GrantBonus(workers=a,assignments=b,amounts=c,reasons=d)

## End(Not run)
```

---

GrantQualification  Grant Qualification Request

Description

Grant a Worker’s request for a Qualification.

Usage

```r
GrantQualification( qual.requests, values,
keypair = credentials(), print = TRUE, browser = FALSE,
log.requests = TRUE, sandbox = FALSE)
```
Arguments

qual.requests A character string containing a QualificationRequestId (for example, returned by `GetQualificationRequests`), or a vector of QualificationRequestIds.

values A character string containing the value of the Qualification to be assigned to the worker, or a vector of values of length equal to the number of QualificationRequests.

keypair A two-item character vector containing an AWS Access Key ID in the first position and the corresponding Secret Access Key in the second position. Set default with `credentials`.

print Optionally print the results of the API request to the standard output. Default is TRUE.

browser Optionally open the request in the default web browser, rather than opening in R. Default is FALSE.

log.requests A logical specifying whether API requests should be logged. Default is TRUE. See `readlogfile` for details.

sandbox Optionally execute the request in the MTurk sandbox rather than the live server. Default is FALSE.

Details

Qualifications are publicly visible to workers on the MTurk website and workers can request Qualifications (e.g., when a HIT requires a QualificationType that they have not been assigned). QualificationRequests can be retrieved via `GetQualificationRequests`. This function grants specified qualification requests. Requests can be rejected with `RejectQualifications`.

GrantQualifications() and grantqual() are aliases.

Value

A dataframe containing the QualificationRequestId and whether each request was valid.

Author(s)

Thomas J. Leeper

References

API Reference

See Also

`GetQualificationRequests`

`RejectQualification`
Examples

```r
## Not run:
GrantQualification("2YCIA0RYNJ9262B1D82MPTUEXAMPLE","100")

## End(Not run)
```

Description

These functions provide lists (of QualificationTypes, Requester and Worker Statistics) useful when creating HITs and QualificationTypes, and other functions to open specific pages of the MTurk Requester User Interface (RUI), or in the case of `ViewAvailableHITS`, the MTurk worker site.

Usage

```r
ListOperations(op = NULL)
ListQualificationTypes(qual = NULL)
ListStatistics(stat = NULL, value.type = NULL, type = NULL)
ViewAvailableHITS(query = NULL, requester = NULL, min.reward = NULL, qualified = NULL)
OpenWorkerPage(workerid = NULL)
OpenManageHITPage(hit = NULL)
OpenDownloadPage(hit, download = FALSE)
OpenQualificationPage()
```

Arguments

- **op**  
  For `ListOperations`: a number indicating which of the operations to return. Probably not useful.

- **qual**  
  For `ListQualificationTypes`: a character string containing the name of a built-in QualificationType. If specified, `ListQualificationTypes` returns only the QualificationTypeId of that QualificationType.

- **stat**  
  For `ListStatistics`: an optional character string specifying the name of an MTurk statistic. If specified, only details of that statistic are returned.

- **value.type**  
  For `ListStatistics`: an optional character string specifying whether “Double”-type or “Long”-type statistics should be returned. If `NULL`, both types are returned. Probably not useful.

- **type**  
  For `ListStatistics`: an optional character string specifying whether “GetRequesterStatistic”-type or “GetRequesterWorkerStatistic”-type statistics should be returned. If `NULL`, both types are returned.
query  For ViewAvailableHITs: an optional character string containing a search query used to search through HITs available on the MTurk worker site.
requester  For ViewAvailableHITs: an optional character string containing a RequesterId whose HITs are to be searched, for example to see how one’s own HITs appear to workers on the MTurk worker site.
min.reward  For ViewAvailableHITs: an optional character string containing a minimum reward (in U.S. Dollars) criterion to be used when searching available HITs on the worker site.
qualified  For ViewAvailableHITs: an optional logical specifying whether only HITs for which you are qualified should be searched.
workerid  For OpenWorkerPage: an optional character string containing the WorkerId of a worker whose Requester User Interface (RUI) management page is to be opened. If NULL, function opens the list of workers.
hit  For OpenManageHITPage: an optional character string containing the HITId of a HIT whose Requester User Interface (RUI) management page is to be opened. If NULL, function opens the list of all HITs. For OpenDownloadPage: a mandatory character string containing a HITID of a HIT whose assignment data download page should be opened.
download  For OpenDownloadPage: a logical indicating whether the HIT results should be downloaded directly or whether the Requester User Interface (RUI) ManageHIT page should be opened (the default).

Details
A set of convenience functions to either display various information about MTurk semantics or open specified parts of the Requester User Interface (RUI).

Value
Either a dataframe containing the requested information (in the case of ListOperations, ListQualificationTypes, ListStatistics) or nothing internal to R, but the specified webpage is opened in the user's default web browser (in the case of OpenWorkerPage, OpenManageHITPage, OpenDownloadPage, or OpenQualificationPage).

Author(s)
Thomas J. Leeper

See Also
APIReference

Examples
```r
# Not run:
ListOperations()
ListQualificationTypes()
ListStatistics()
```
mturkhelp

mturkhelp is a package designed to help with the MTurk API (as opposed to the MTurkR package itself). It makes help requests directly to the API, while APIReference simply loads the API documentation.

Usage

mturkhelp( about, helptype = NULL, keypair = credentials(), print = TRUE, browser = FALSE, log.requests = TRUE)

Arguments

- **about**: A character string containing a help query.
- **helptype**: Optionally either “Operation” or “ResponseGroup”.
- **keypair**: A two-item character vector containing an AWS Access Key ID in the first position and the corresponding Secret Access Key in the second position. Set default with credentials.
- **print**: Optionally print the results of the API request to the standard output. Default is TRUE.
- **browser**: Optionally open the request in the default web browser, rather than opening in R. Default is FALSE.
- **log.requests**: A logical specifying whether API requests should be logged. Default is TRUE. See readlogfile for details.

Details

Some basic functions to get help with the MTurk API (as opposed to the MTurkR package). While intended to be user-friendly, sophisticated use of MTurkR may require some understanding of the MTurk API, which is easily accessed here.
**MTurkR.Wizard**

Interactive MTurkR Mode

**Description**

An interactive, menu-based wizard to perform MTurkR functions. Designed for beginners and those with aversion to the programming required elsewhere in the package.

**Usage**

```r
MTurkR.Wizard(style="tcltk", sandbox = FALSE)
wizard.simple(graphics = FALSE, sandbox = NULL)
```

**Arguments**

- **style**
  
  The default `tcltk`, opens a full-featured GUI for MTurkR. `simple` opens a simpler, text-based wizard (provided by `wizard.simple`) for performing some functions; `simpleGUI` opens the same simpler wizard, with graphical rather than text-based menus.

- **graphics**
  
  Optionally use graphical menus, if available, for the simple wizard. See `menu`. Default is `FALSE`.

- **sandbox**
  
  Optionally execute all requests in the MTurk sandbox rather than the live server. Default (in `MTurkR.Wizard`) is `FALSE`; the default in `wizard.simple` is `NULL` (with the wizard prompting for a value on load).

**Value**

Nothing. For `mturkhelp`: help information is printed to the standard output. For `APIReference`: the MTurk API documentation is opened in the user’s default browser.

**Author(s)**

Thomas J. Leeper

**References**

- Getting Started Guide
- Developer Guide
- API Reference
- Quick Reference

**Examples**

```r
## Not run:
mturkhelp(about="GrantBonus", helptype="Operation")
APIReference()

## End(Not run)
```
Details

An interactive, menu-based wizard (with optionally graphical menus) to perform most MTurkR operations. It is intended as a way for MTurk (and MTurkR) beginners to quickly create and monitor HITs; approve and reject assignments; notify, bonus, and block/unblock workers; manage Qualifications; monitor MTurk statistics; and interact with the MTurk Requester User Interface (RUI). All functionality accepts basic inputs interactively and executes requests without programming individual commands.

Two particularly helpful features are worth highlighting. The wizard provides a point-and-click interface for approving and rejecting individual assignments, that interactively displays assignment content and executes approval/rejection decisions with ease. The wizard also provides analogous functionality for granting and rejecting qualification requests.

The wizard remains under active development and detailed documentation will hopefully be available under a subsequent release.

mturkr.wizard() is an alias for MTurkR.Wizard.

Value

Currently returns nothing.

Author(s)

Thomas J. Leeper

Examples

```r
## Not run:
MTurkR.Wizard()
## End(Not run)
```

<table>
<thead>
<tr>
<th>ParseErrorCodes</th>
<th>Parse MTurk API Errors</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Description

Mostly internal function to parse MTurk API error codes (from XML) into an R dataframe.

Usage

```r
ParseErrorCodes(xml = NULL, xml.parsed = NULL)
```

Arguments

- `xml` A character string containing a full MTurk XML response. Must specify this or the `xml.parsed` parameter.
- `xml.parsed` A full MTurk XML response parsed by the `xmlParse`. Must specify this or the `xml` parameter.
Details
A mostly internal function to parse MTurk API error codes (returned in XML format) into an
R dataframe. API errors only emerge when requests are not valid and this is largely an internal
function, but may be minimally helpful when reviewing invalid requests in the log file (see
\texttt{readlogfile}).

Value
A dataframe containing rows for each API error code and its corresponding message. This dataframe
is returned by \texttt{request} whenever a request is invalid.

Author(s)
Thomas J. Leeper

See Also
\texttt{request}

\begin{verbatim}
  \begin{tabular}{ll}
    \textbf{readlogfile} & \textit{Read the MTurkR Logfile} \\
  \end{tabular}
\end{verbatim}

Description
A log of all MTurk API requests are stored in a tab-separated value file in the current working
directory called ‘\texttt{MTurkRLog.tsv}’. This function reads this MTurkR logfile into R as a dataframe,
using \texttt{read.delim}.

Usage
\begin{verbatim}
readlogfile(filename = NULL, shell = FALSE)
\end{verbatim}

Arguments
\begin{verbatim}
filename An optional character string specifying the name of an MTurkR log file to read
into R. The default is ‘\texttt{MTurkRLog.tsv}’ in the working directory.
shell A logical specifying whether the log file should be opened using the workstation’s default program for the log’s file type (tab-separated value file) rather than loading into R. Default is \texttt{FALSE}.
\end{verbatim}

Details
By default, MTurkR stores a record of all MTurk API requests in a local file in the working
directory. This function reads the locally stored MTurkR log file (‘\texttt{MTurkRLog.tsv}’) into R as a dataframe.
This is useful for error checking and reviewing prior requests. A convenient, visual interface for the
logfile is provided by \texttt{MTurkR.Wizard}. 
RegisterHITType

Description

Register a HITType on MTurk, in order to create one or more HITs to show up as a group to workers.

Usage

RegisterHITType(title, description, reward, duration, keywords = NULL, auto.approval.delay = NULL, qual.req = NULL, keypair = credentials(), print = TRUE, browser = FALSE, log.requests = TRUE, sandbox = FALSE)

Arguments

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>title</td>
<td>A character string containing the title for the HITType. All HITs of this HITType will be visibly grouped to workers according to this title. Maximum of 128 characters.</td>
</tr>
<tr>
<td>description</td>
<td>A character string containing a description of the HITType. This is visible to workers. Maximum of 2000 characters.</td>
</tr>
<tr>
<td>reward</td>
<td>A character string containing the per-assignment reward amount, in U.S. Dollars (e.g., &quot;0.15&quot;).</td>
</tr>
<tr>
<td>duration</td>
<td>A character string containing the amount of time workers have to complete an assignment for HITs of this HITType, in seconds (for example, as returned by <code>seconds</code>). Minimum of 30 seconds and maximum of 365 days.</td>
</tr>
</tbody>
</table>
keywords  An optional character string containing a comma-separated set of keywords by which workers can search for HITs of this HITType. Maximum of 1000 characters.

auto.approval.delay  An optional character string specifying the amount of time, in seconds (for example, as returned by `seconds`), before a submitted assignment is automatically granted. Maximum of 30 days.

qual.req  An optional character string containing one or more QualificationRequirements data structures, for example as returned by `GenerateQualificationRequirement`.

keypair  A two-item character vector containing an AWS Access Key ID in the first position and the corresponding Secret Access Key in the second position. Set default with `credentials`.

print  Optionally print the results of the API request to the standard output. Default is TRUE.

browser  Optionally open the request in the default web browser, rather than opening in R. Default is FALSE.

log.requests  A logical specifying whether API requests should be logged. Default is TRUE. See `readlogfile` for details.

sandbox  Optionally execute the request in the MTurk sandbox rather than the live server. Default is FALSE.

Details

All HITs of a given HITType are visibly grouped together for workers and share common properties (e.g., reward amount, QualificationRequirements). This function registers a HITType in the MTurk system, which can then be used when creating individual HITs. If a requester wants to change these properties for a specific HIT, the HIT should be changed to a new HITType (see `ChangeHITType`).

hittype() is an alias.

Value

A character string containing the HITTypeId of the newly registered HITType.

Author(s)

Thomas J. Leeper

References

API Reference: Operation
API Reference: Concept

See Also

`CreateHIT`
`ChangeHITType`
**Examples**

```r
## Not run:
RegisterHITType(title="10 Question Survey", description="Complete a 10-question survey about news coverage and your opinions", reward=".2", duration=seconds(hours=1), keywords="survey, questionnaire, politics")
## End(Not run)
```

**Description**

Reject a Worker's assignment (or multiple assignments) submitted for a HIT. Feedback should be provided for why an assignment was rejected.

**Usage**

```
RejectAssignment( assignments, feedback = NULL, keypair = credentials(), print = TRUE, browser = FALSE, log.requests = TRUE, sandbox = FALSE)
```

**Arguments**

- `assignments` A character string containing an AssignmentId, or a vector of multiple character strings containing multiple AssignmentIds, to reject.
- `feedback` An optional character string containing any feedback for a worker. This must have length 1 or length equal to the number of workers.
- `keypair` A two-item character vector containing an AWS Access Key ID in the first position and the corresponding Secret Access Key in the second position. Set default with `credentials`.
- `print` Optionally print the results of the API request to the standard output. Default is `TRUE`.
- `browser` Optionally open the request in the default web browser, rather than opening in R. Default is `FALSE`.
- `log.requests` A logical specifying whether API requests should be logged. Default is `TRUE`. See `readlogfile` for details.
- `sandbox` Optionally execute the request in the MTurk sandbox rather than the live server. Default is `FALSE`.

**Details**

Reject assignments, by AssignmentId (as returned by `GetAssignment`). More advanced functionality to quickly reject many or all assignments (ala `ApproveAllAssignments`) is intentionally not provided.

`RejectAssignments()` and `reject()` are aliases.
RejectQualification

Value
A dataframe containing the list of AssignmentIds, feedback (if any), and whether or not each rejection request was valid.

Author(s)
Thomas J. Leeper

References
API Reference

See Also
ApproveAssignment

Examples
```
## Not run:
RejectAssignment(assignments="26XXH0JPPSI23H54YVG7BKLEXAMPLE")
## End(Not run)
```

RejectQualification Reject a Worker's Qualification Request

Description
Reject a Worker's request for a Qualification.

Usage
```
RejectQualification(qual.request, reason = NULL,
keypair = credentials(), print = TRUE, browser = FALSE,
log.requests = TRUE, sandbox = FALSE)
```

Arguments
```
qual.request A character string containing a QualificationRequestId, or a vector of character strings containing multiple QualificationRequestIds (e.g., as returned by GetQualificationRequests).
reason An optional character string, or vector of character strings of length equal to length of the qual.requests parameter, supplying each worker with a reason for rejecting their request for the Qualification. Workers will see this message. Maximum of 1024 characters.
keypair A two-item character vector containing an AWS Access Key ID in the first position and the corresponding Secret Access Key in the second position. Set default with credentials.
```
RejectQualification

print
Optionally print the results of the API request to the standard output. Default is TRUE.

browser
Optionally open the request in the default web browser, rather than opening in R. Default is FALSE.

log.requests
A logical specifying whether API requests should be logged. Default is TRUE. See readlogfile for details.

sandbox
Optionally execute the request in the MTurk sandbox rather than the live server. Default is FALSE.

Details
Qualifications are publicly visible to workers on the MTurk website and workers can request Qualifications (e.g., when a HIT requires a QualificationType that they have not been assigned). QualificationRequests can be retrieved via GetQualificationRequests. This function rejects specified qualification requests.

RejectQualifications() and rejectrequest() are aliases.

Value
A dataframe containing the QualificationRequestId, reason for rejection (if applicable), and whether each request was valid.

Author(s)
Thomas J. Leeper

References
API Reference

See Also
GetQualificationRequests
GrantQualification

Examples
## Not run:
RejectQualification("2YCIA0RYNJ9262B1D82MPTUEXAMPLE",reason="I am not currently granting this QualificationType.

## End(Not run)
request  

Execute an MTurk API Request

Description

This is the workhorse function that makes authenticated HTTP requests to the MTurk API. It is only provided for advanced users.

Usage

request(keyid, operation, signature, timestamp, GETparameters, version = "2012-03-25", service = "AWSMechanicalTurkRequester", browser = FALSE, log.requests = TRUE, sandbox = FALSE, xml.parse = FALSE, print.errors = TRUE, validation.test = FALSE)

Arguments

keyid        An AWS Access Key ID.
operation    The MTurk API operation to be performed.
signature    A base64 encoded HMAC signature, as returned by authenticate.
timestamp    A timestamp, as returned by authenticate.
GETparameters An optional character string containing URL query parameters that specify options for the request.
version      The version of the MTurk API to use. Default is "2012-03-25", under which the MTurkR package was built.
service      The MTurk service to which the authenticated request will be sent. Supplied only for advanced users.
browser      Optionally open the request in the default web browser, rather than opening in R. Default is FALSE.
log.requests A logical specifying whether API requests should be logged. Default is TRUE. See readlogfile for details.
sandbox      Optionally execute the request in the MTurk sandbox rather than the live server. Default is FALSE.
xml.parse    Whether the returned list should contain parsed XML.
print.errors Whether errors produced by the MTurk API request should be printed.
validation.test  Currently a logical that returns the URL of the specified REST request. Default is FALSE. May additionally validate the request (and supply information about that validation) in the future.

Details

This is a mostly internal function that executes MTurk API requests. It is made available for use by advanced users to execute custom API requests (in tandem with authenticate). Even advanced users, however, should be satisfied with the functionality provided by genericmturkr.
RevokeQualification

Value

A list containing the URL of the MTurk API REST request (request.url), the Request ID created by the API request (request.id), a logical indicating whether or not the request was valid and thus executed as intended (valid), and a character string containing the XML-formatted API response (xml).

Author(s)

Thomas J. Leeper

References

API Reference

See Also

authenticate
ParseErrorCodes

RevokeQualification Revoke a Qualification from a Worker

Description

Revoke a Qualification from a worker or multiple workers. This deletes their qualification score and any record thereof.

Usage

RevokeQualification(qual, worker, reason = NULL, keypair = credentials(), print = TRUE, browser = FALSE, log.requests = TRUE, sandbox = FALSE)

Arguments

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>qual</td>
<td>A character string containing a QualificationTypeId.</td>
</tr>
<tr>
<td>worker</td>
<td>A character string containing a WorkerId, or a vector of character strings containing multiple WorkerIds.</td>
</tr>
<tr>
<td>reason</td>
<td>An optional character string, or vector of character strings of length equal to length of the workers parameter, supplying each worker with a reason for revoking their Qualification. Workers will see this message.</td>
</tr>
<tr>
<td>keypair</td>
<td>A two-item character vector containing an AWS Access Key ID in the first position and the corresponding Secret Access Key in the second position. Set default with credentials.</td>
</tr>
<tr>
<td>print</td>
<td>Optionally print the results of the API request to the standard output. Default is TRUE.</td>
</tr>
</tbody>
</table>
RevokeQualification

browser
Optionally open the request in the default web browser, rather than opening in R. Default is FALSE.

log.requests
A logical specifying whether API requests should be logged. Default is TRUE. See readlogfile for details.

sandbox
Optionally execute the request in the MTurk sandbox rather than the live server. Default is FALSE.

Details
A simple function to revoke a Qualification assigned to one or more workers.

RevokeQualifications() and revokequal() are aliases.

Value
A dataframe containing the QualificationTypeId, WorkerId, reason (if applicable), and whether each request was valid.

Author(s)
Thomas J. Leeper

References
API Reference

See Also
GrantQualification
RejectQualification

Examples
## Not run:
a <- "2YCIA0RYNJ9262B1D82MPTUEXAMPLE"
b <- "AIRO9UINNKXAMU65"
c <- "Performance has dropped below required level"
RevokeQualification(qual=a, worker=b, reason=c)

## End(Not run)
SearchHITs

Search your HITs

Description

Search for your HITs and return those HITs as R objects.

Usage

SearchHITs( response.group = NULL, return.all = TRUE, pagename = "1", pagesize = "10", sortproperty = "Enumeration", sortdirection = "Ascending", keypair = credentials(), print = TRUE, log.requests = TRUE, sandbox = FALSE, return.hit.dataframe = TRUE, return.qual.dataframe = TRUE)

Arguments

response.group An optional character string (or vector of character strings) specifying what details of each HIT to return of: “Request”, “Minimal”, “HITDetail”, “HITQuestion”, “HITAssignmentSummary”. For more information, see http://docs.aws.amazon.com/AWSMechTurk/latest/AWSMechTurkAPI/ApiReference_CommonParametersArticle.html.

return.all A logical indicating whether all HITs (as opposed to a specified page of the search results) should be returned. Default is TRUE.

pagename An optional character string indicating which page of search results should be returned. Default is 1.

pagesize An optional character string indicating how many search results should be returned by each request, between 1 and 100. Default is 10.

sortproperty One of “Title”, “Reward”, “Expiration”, “CreationTime”, “Enumeration”. Ignored if return.all=TRUE. Most users can ignore this.

sortdirection Either “Ascending” or “Descending”. Ignored if return.all=TRUE. Most users can ignore this.

keypair A two-item character vector containing an AWS Access Key ID in the first position and the corresponding Secret Access Key in the second position. Set default with credentials.

print Optionally print the results of the API request to the standard output. Default is TRUE.

log.requests A logical specifying whether API requests should be logged. Default is TRUE. See readlogfile for details.

sandbox Optionally execute the request in the MTurk sandbox rather than the live server. Default is FALSE.

return.hit.dataframe A logical indicating whether the dataframe of HITs should be returned. Default is TRUE.
return.qual.dataframe

A logical indicating whether the list of each HIT’s QualificationRequirements (stored as dataframes in that list) should be returned. Default is TRUE.

Details

Retrieve your current HITs (and, optionally, characteristics thereof). To view HITs on the MTurk requester website, see OpenManageHITPage. To view HITs on the MTurk worker website, use ViewAvailableHITs. searchhits() is an alias.

Value

Optionally a dataframe containing the HITs and a list of each HIT’s QualificationRequirements (stored as dataframes in that list).

Author(s)

Thomas J. Leeper

References

API Reference

See Also

GetHIT
GetReviewableHITs
SearchQualificationTypes
ViewAvailableHITs

Examples

```r
# Not run:
SearchHITs()

# End(Not run)
```

---

**SearchQualificationTypes**

*Search QualificationTypes*

Description

Search for available QualificationTypes, including yours and others available on the MTurk system created by other requesters.
SearchQualificationTypes

Usage

SearchQualificationTypes(query = NULL, only.mine = TRUE, only.requestable = FALSE, return.all = FALSE, pagename = "1", pagesize = "10", sortproperty = "Name", sortdirection = "Ascending", keypair = credentials(), print = TRUE, log.requests = TRUE, sandbox = FALSE, return.qual.dataframe = TRUE)

Arguments

query  An optional character string containing a search query to be used to search among available QualificationTypes.

only.mine  A logical indicating whether only your QualificationTypes should be returned (the default). If FALSE, QualificationTypes created by all requesters will be returned.

return.all  A logical indicating whether all QualificationTypes (as opposed to a specified page of the search results) should be returned. Default is TRUE.

pagenumber  An optional character string indicating which page of search results should be returned. Most users can ignore this.

pagesize  An optional character string indicating how many search results should be returned by each request, between 1 and 100. Most users can ignore this.

sortproperty  API currently only supports “Name”. Most users can ignore this.

sortdirection  Either “Ascending” or “Descending”. Ignored if return.all=TRUE. Most users can ignore this.

keypair  A two-item character vector containing an AWS Access Key ID in the first position and the corresponding Secret Access Key in the second position. Set default with credentials.

print  Optionally print the results of the API request to the standard output. Default is TRUE.

log.requests  A logical specifying whether API requests should be logged. Default is TRUE. See readlogfile for details.

sandbox  Optionally execute the request in the MTurk sandbox rather than the live server. Default is FALSE.

return.qual.dataframe  A logical indicating whether the QualificationTypes should be returned as a dataframe. Default is TRUE.

Details

Retrieve available QualificationTypes, optionally only those QualificationTypes created by you and/or those that meet specific search criteria specified in the query parameter. Given that the total number of QualificationTypes available from all requesters could be infinitely large, specifying both only.mine=FALSE and return.all=FALSE will be time-consuming and may cause memory problems.

searchquals() is an alias.
Value

A dataframe containing the QualificationTypeId of the newly created QualificationType and other details as specified in the request.

Author(s)

Thomas J. Leeper

References

API Reference

See Also

GetQualificationType
CreateQualificationType
UpdateQualificationType
DisposeQualificationType
SearchHITs

Examples

```r
## Not run:
SearchQualificationTypes(only.mine=TRUE,return.all=TRUE)
SearchQualificationTypes(query="MIT",only.mine=FALSE,return.all=FALSE)
## End(Not run)
```

## Convert arbitrary times to seconds

### Description

A convenience function to convert arbitrary numbers of days, hours, minutes, and/or seconds into seconds.

### Usage

```r
seconds(days = NULL, hours = NULL, minutes = NULL, seconds = NULL)
```

### Arguments

- `days` An optional number of days.
- `hours` An optional number of hours.
- `minutes` An optional number of minutes.
- `seconds` An optional number of seconds.
SendTestEventNotification

Details

A convenience function to convert arbitrary numbers of days, hours, minutes, and/or seconds into
seconds. For example, to be used in setting a HIT expiration time. MTurk only accepts times (e.g.,
for HIT expirations, or the duration of assignments) in seconds. This function returns an integer
value equal to the number of seconds of the input, and can be used atomically within other MTurkR
calls (e.g., CreateHIT).

Value

An integer equal to the requested amount of time in seconds.

Author(s)

Thomas J. Leeper

Examples

seconds(hours=5, seconds=15)
seconds(days=1)

SendTestEventNotification

Test a Notification

Description

Test a HITType Notification, for example, to try out a HITType Notification before creating a HIT.

Usage

SendTestEventNotification(notification, test.event.type, keypair = credentials(), print = TRUE, browser = FALSE,
log.requests = TRUE, sandbox = FALSE)

Arguments

notification A character string containing a URL query parameter-formatted Notification
structure (e.g., returned by GenerateNotification).
test.event.type A character string containing one of: AssignmentAccepted, AssignmentAbandoned,
AssignmentReturned, AssignmentSubmitted, HITReviewable, HITExpired
(the default), Ping.
keypair A two-item character vector containing an AWS Access Key ID in the first posi-
tion and the corresponding Secret Access Key in the second position. Set default
with credentials.
print Optionally print the results of the API request to the standard output. Default is
TRUE.
browser  Optionally open the request in the default web browser, rather than opening in R. Default is FALSE.

log.requests A logical specifying whether API requests should be logged. Default is TRUE. See readlogfile for details.

sandbox Optionally execute the request in the MTurk sandbox rather than the live server. Default is FALSE.

Details

Test a Notification configuration. The test mimics whatever the Notification configuration will do when the event described in test.event.type occurs.

Note: The API operation underlying SetHITTypeNotification and SendTestEventNotification has been deprecated by Amazon is not receiving ongoing development, but remains available for backward compatibility.

notificationtest() is an alias.

Value

Potentially an email sent to the email address specified in the notification parameter. Otherwise, nothing

Author(s)

Thomas J. Leeper

References

API Reference

See Also

GenerateNotification
SetHITTypeNotification

Examples

```r
## Not run:
a <- GenerateNotification("requester@example.com",event.type="HITExpired")
SendTestEventNotification(a,test.event.type="HITReviewable") # no notification email will be sent
SendTestEventNotification(a,test.event.type="HITExpired") # notification email will be sent

## End(Not run)
```
SetHITAsReviewing

**Set HIT as “Reviewing”**

**Description**

Update the status of a HIT, from “Reviewable” to “Reviewing” or the reverse.

**Usage**

```r
SetHITAsReviewing( hit = NULL, hit.type = NULL, revert = FALSE, keypair = credentials(), print = TRUE, browser = FALSE, log.requests = TRUE, sandbox = FALSE)
```

**Arguments**

- **hit**: An optional character string containing a HITId, or a vector character strings containing HITIds, whose status are to be changed.
- **hit.type**: An optional character string specifying a HITType, all the HITs of which should be set as “Reviewing” (or the reverse).
- **revert**: An optional logical to revert the HIT from “Reviewing” to “Reviewable”.
- **keypair**: A two-item character vector containing an AWS Access Key ID in the first position and the corresponding Secret Access Key in the second position. Set default with `credentials()`.
- **print**: Optionally print the results of the API request to the standard output. Default is TRUE.
- **browser**: Optionally open the request in the default web browser, rather than opening in R. Default is FALSE.
- **log.requests**: A logical specifying whether API requests should be logged. Default is TRUE. See `readlogfile` for details.
- **sandbox**: Optionally execute the request in the MTurk sandbox rather than the live server. Default is FALSE.

**Details**

A function to change the status of one or more HITs (or all HITs of a given HITType) to “Reviewing” or the reverse. This affects what HITs are returned by `GetReviewableHITs`. Must specify a HITId xor a HITType.

`reviewing()` is an alias.

**Value**

A dataframe containing HITId, status, and whether the request to change the status of each was valid.
## Description

Configure a notification to be sent when specific actions occur for the specified HITType.

## Usage

```r
SetHITTypeNotification( hit.type, notification = NULL, active = NULL, keypair = credentials(), print = TRUE, browser = FALSE, log.requests = TRUE, sandbox = FALSE)
```

## Arguments

- **hit.type**: A character string specifying the HITTypeId of the HITType for which notifications are being configured.
- **notification**: A character string containing a URL query parameter-formatted Notification structure (e.g., returned by `GenerateNotification`).
- **active**: A logical indicating whether the Notification is active or inactive.
- **keypair**: A two-item character vector containing an AWS Access Key ID in the first position and the corresponding Secret Access Key in the second position. Set default with `credentials`.
- **print**: Optionally print the results of the API request to the standard output. Default is `TRUE`.
- **browser**: Optionally open the request in the default web browser, rather than opening in R. Default is `FALSE`.
- **log.requests**: Log the request.
- **sandbox**: Use a sandbox environment for testing. For more information on the sandbox, see the AWS Mechanical Turk documentation.
SetHITTypeNotification

log.requests A logical specifying whether API requests should be logged. Default is TRUE. See readlogfile for details.

sandbox Optionally execute the request in the MTurk sandbox rather than the live server. Default is FALSE.

Details

Configure a notification to be sent to the requester whenever an event (specified in the Notification object) occurs. This is useful for receiving email notifications about, for example, when assignments are submitted or HITs are completed.

Note: The API operation underlying SetHITTypeNotification and SendTestEventNotification has been deprecated by Amazon is not receiving ongoing development, but remains available for backward compatibility.

setnotification() is an alias.

Value

A dataframe containing details of the Notification and whether or not the request was successfully executed by MTurk.

Author(s)

Thomas J. Leeper

References

API Reference: Operation
API Reference: Concept

See Also

GenerateNotification
SendTestEventNotification

Examples

## Not run:
a <- GenerateNotification("requester@example.com",event.type="HITExpired")
SetHITTypeNotification(hit.type="2FFNCWYB49F9BBJWA4SJUNST5OFSDW",notification=a,active=TRUE)

## End(Not run)
Update a worker’s score for a QualificationType

**Description**

Update a worker’s score for a QualificationType that you created. Scores for built-in QualificationTypes (e.g., location, worker statistics) cannot be updated.

**Usage**

```
UpdateQualificationScore(qual, workers, values = NULL, increment = NULL, keypair = credentials(), print = TRUE, browser = FALSE, log.requests = TRUE, sandbox = FALSE)
```

**Arguments**

- **qual**: A character string containing a QualificationTypeId.
- **workers**: A character string containing a WorkerId, or a vector of character strings containing multiple WorkerIds.
- **values**: A character string containing an integer value to be assigned to the worker, or a vector of character strings containing integer values to be assigned to each worker (and thus must have length equal to the number of workers).
- **increment**: An optional character string specifying, in lieu of “values”, the amount that each worker’s current QualificationScore should be increased.
- **keypair**: A two-item character vector containing an AWS Access Key ID in the first position and the corresponding Secret Access Key in the second position. Set default with `credentials()`.
- **print**: Optionally print the results of the API request to the standard output. Default is `TRUE`.
- **browser**: Optionally open the request in the default web browser, rather than opening in R. Default is `FALSE`.
- **log.requests**: A logical specifying whether API requests should be logged. Default is `TRUE`. See `readlogfile` for details.
- **sandbox**: Optionally execute the request in the MTurk sandbox rather than the live server. Default is `FALSE`.

**Details**

A function to update the Qualification score assigned to one or more workers for the specified custom QualificationType. The simplest use is to specify a QualificationTypeId, a WorkerId, and a value to be assigned to the worker. Scores for multiple workers can be updated in one request.
Additionally, the increment parameter allows you to increase (or decrease) each of the specified workers scores by the specified amount. This might be useful, for example, to keep a QualificationType that records how many of a specific style of HIT a worker has completed and increase the value of each worker's score by 1 after they complete a HIT.

updatequalscore() is an alias.

**Value**

A dataframe containing the QualificationTypeId, WorkerId, Qualification score, and whether the request to update each was valid.

**Author(s)**

Thomas J. Leeper

**References**

API Reference

**See Also**

- GetQualificationScore
- GetQualifications

**Examples**

```r
## Not run:
UpdateQualificationScore("2YCIAORYNJ9262B1D82MPTUEXAMPLE","A1RO9UJNWXMU65",values="95")
UpdateQualificationScore("2YCIAORYNJ9262B1D82MPTUEXAMPLE","A1RO9UJNWXMU65",increment="1")

## End(Not run)
```

---

**UpdateQualificationType**

_Update a Worker QualificationType_

**Description**

Update characteristics of a QualificationType.

**Usage**

```r
UpdateQualificationType(qual, description = NULL, status = NULL, retry.delay = NULL, test = NULL, answerkey = NULL, test.duration = NULL, auto = NULL, auto.value = NULL, keypair = credentials(), print = TRUE, browser = FALSE, log.requests = TRUE, sandbox = FALSE)
```
Arguments

qual A character string containing a QualificationTypeId.
description A character string describing the Qualification. This is visible to workers. Maximum of 2000 characters.
status A character vector of "Active" or "Inactive", indicating whether the QualificationType should be active and visible.
retry.delay An optional time (in seconds) indicating how long workers have to wait before requesting the QualificationType after an initial rejection.
test An optional character string consisting of a QuestionForm data structure, used as a test a worker must complete before the QualificationType is granted to them.
answerkey An optional character string consisting of an AnswerKey data structure, used to automatically score the test. If a previous test with an associated AnswerKey is updated, the new test will not have an AnswerKey unless a new one is included in the same call (even if it is identical to the previous AnswerKey).
test.duration An optional time (in seconds) indicating how long workers have to complete the test.
auto A logical indicating whether the Qualification is automatically granted to workers who request it. Default is FALSE.
auto.value An optional parameter specifying the value that is automatically assigned to workers when they request it (if the Qualification is automatically granted).
keypair A two-item character vector containing an AWS Access Key ID in the first position and the corresponding Secret Access Key in the second position. Set default with credentials.
print Optionally print the results of the API request to the standard output. Default is TRUE.
browser Optionally open the request in the default web browser, rather than opening in R. Default is FALSE.
log.requests A logical specifying whether API requests should be logged. Default is TRUE. See readlogfile for details.
sandbox Optionally execute the request in the MTurk sandbox rather than the live server. Default is FALSE.

Details

A function to update the characteristics of a QualificationType. Name and keywords cannot be modified after a QualificationType is created.
updatequal() is an alias.

Value

A dataframe containing the QualificationTypeId of the newly created QualificationType and other details as specified in the request.
XMLToDataFrame

Author(s)
Thomas J. Leeper

References

API Reference

See Also

GetQualificationType
CreateQualificationType
DisposeQualificationType
SearchQualificationTypes

Examples

## Not run:
qual1 <- CreateQualificationType(title="Worked for me before", description="This qualification is for people who have worked for me before!", sandbox=TRUE)
qual2 <- UpdateQualificationType(qual.test, description="This qualification is for everybody!", auto=TRUE, auto.value="5", sandbox=TRUE)

## End(Not run)

---

## XMLToDataFrame

**Parse MTurk XML Responses and Convert to Dataframe**

### Description

Parse MTurk XML Responses of specified types and convert the XML to an R dataframe.

### Usage

AnswerKeyToDataFrame(xml=NULL, xml.parsed=NULL)
AssignmentsToDataFrame(xml=NULL, xml.parsed=NULL, return.assignment.xml=FALSE)
BonusPaymentsToDataFrame(xml=NULL, xml.parsed=NULL)
ExternalQuestionToDataFrame(xml=NULL, xml.parsed=NULL)
HITsToDataFrame(xml=NULL, xml.parsed=NULL, return.hit.xml=FALSE, return.qual.list=TRUE)
HTMLQuestionToDataFrame(xml=NULL, xml.parsed=NULL)
QualificationRequirementsToDataFrame(xml=NULL, xml.parsed=NULL, xmlnodeset=NULL, hit=NULL, hit.number=NULL)
QualificationsToDataFrame(xml=NULL, xml.parsed=NULL)
QualificationTypesToDataFrame(xml=NULL, xml.parsed=NULL)
QuestionFormAnswersToDataFrame(xml=NULL, xml.parsed=NULL)
QuestionFormToDataFrame(xml=NULL, xml.parsed=NULL)
ReviewResultsToDataFrame(xml=NULL, xml.parsed=NULL)
WorkerBlockToDataFrame(xml=NULL, xml.parsed=NULL)
Arguments

xml A character string containing a full MTurk XML response. Must specify this or the xml.parsed parameter.
xml.parsed A full MTurk XML response parsed by the xmlParse. Must specify this or the xml parameter.
xmlnodeset An XML nodeset.
return.assignment.xml A logical indicating whether workers’ responses to HIT questions should be returned.
return.hit.xml A logical indicating whether the HIT XML should be returned. Default is FALSE.
return.qual.list A logical indicating whether the QualificationRequirement list should be returned. Default is TRUE.

Details

Mostly internal functions to convert XML-formatted MTurk responses into more useful R dataframes. These are mostly internal to the extent that most users will never call them directly, but they may be useful if one needs to examine information stored in the MTurkR log file, or if genericmturkr is used.

Value

A dataframe (or list of dataframes, in some cases) containing the request data.

Author(s)

Thomas J. Leeper

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