

Package: c403 (via r-universe)

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Title Exam Tools for Department of Statistics (c403), Uni Innsbruck

Description Support tools for managing lectures and exams at Uni Innsbruck, specifically for automatic generation and evaluation of mathematics and statistics exams.

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Imports graphics, grDevices, stats, tools, utils, xml2

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exams2nops	<i>Deprecated: Generation of NOPS Exams (Uni Innsbruck)</i>
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Description

Unexported legacy interface to [exams2nops](#) with different default values as used at Uni Innsbruck. Instead it is recommended to use [exams2nops](#) directly.

Usage

```
exams2nops(
  file,
  n = 1L,
  dir = NULL,
  name = NULL,
  language = "de",
  title = "Klausur",
  course = "",
  institution = "Universit\\\\"at Innsbruck",
  logo = "uibk-logo-bw.png",
  date = Sys.Date(),
  replacement = TRUE,
  intro = NULL,
  blank = NULL,
  duplex = TRUE,
  pages = NULL,
  usepackage = NULL,
  encoding = "",
  startid = 1L,
  points = NULL,
  showpoints = FALSE,
  reglength = 8L,
  ...
)
```

Arguments

file	character. A specification of a (list of) exercise files.
n	integer. The number of copies to be compiled from file.
dir	character. The default is either display on the screen or the current working directory.
name	character. A name prefix for resulting exercises and RDS file.
language	character. Path to a DCF file with a language specification. Currently, "en" and "de" are shipped with the exams package.
title	character. Title of the exam, e.g., "Statistische Datenanalyse".
course	character. Course number, e.g., "403001".
institution	character. Name of the institution at which the exam is conducted.
logo	character. Path to a logo image. If the logo is not found, it is simply omitted.
date	character or "Date" object specifying the date of the exam.
replacement	logical. Should a replacement exam sheet be included?
intro	character with LaTeX code for introduction text at the beginning of the exam.
blank	integer. Number of blank pages to be added at the end. (Default is chosen to be half of the number of exercises.)
duplex	logical. Should blank pages be added after the title page (for duplex printing)?
pages	character. Path(s) to additional PDF pages to be included at the end of the exam.
usepackage	character. Names of additional LaTeX packages to be included.
encoding	character, passed to Sweave .
startid	integer. Starting ID for the exam numbers (defaults to 1).
points	integer. How many points should be assigned to each exercise? Note that this argument overrules any exercise points that are provided within the <code>expoints</code> tags of the exercise files (if any). The vector of points supplied should either have length 1 or the number of exercises in the exam.
showpoints	logical. Should the PDF show the number of points associated with each exercise (if specified in the <code>Rnw/Rmd</code> exercise or in <code>points</code>)?
reglength	integer. Number of digits in the registration ID. The default is 8 and it can be increased up to 10.
...	arguments passed on to exams2pdf .

Details

`exams2nops` is a convenience interface for [exams2nops](#) with somewhat different defaults: German titles/descriptions, Uni Innsbruck logo, replacement sheets enabled, duplex printing enabled.

Value

A list of exams as generated by [xexams](#) is returned invisibly.

See Also

nops_eval nops_register

Examples

```
## load package and enforce par(ask = FALSE)
library("exams")
options(device.ask.default = FALSE)

## define an exams (= list of exercises)
myexam <- list(
  "boxplots",
  c("tstat", "ttest", "confint"),
  c("regression", "anova"),
  c("scatterplot", "boxhist"),
  "relfreq"
)

if(interactive()) {
  ## compile a single random exam (displayed on screen)
  exams2nops(c("tstat2", "anova", "boxplots"))
}
```

exams2olat

Legacy Generation of Exams for OpenOlat (Uni Innsbruck)

Description

Old legacy interface for producing QTI 1.2 (rather than QTI 2.1) exams for OpenOlat at Uni Innsbruck. By now superseded by [exams2openolat](#).

Usage

```
exams2olat(
  file,
  n = 1L,
  dir = ".",
  name = "olattest",
  maxattempts = 1L,
  cutvalue = 1000,
  solutionswitch = FALSE,
  stitle = "Aufgabe",
  ititle = "Frage",
  adescription = "Bitte bearbeiten Sie folgende Aufgaben.",
  sdescription = "Bitte beantworten Sie folgende Frage.",
  eval = list(partial = FALSE, negative = FALSE),
  ...
)
```

Arguments

file	list, of md/Rmd files to be used
n	integer, number of randomized tests to be created (default 1L)
dir	character, where to store the resulting file(s) (default .)
name	character name of the test/quiz
maxattempts	integer, the maximum attempts for one question (must be smaller than 100000L).
cutvalue	numeric, the cutvalue at which the exam is passed
solutionswitch	logical Should the question/item solutionswitch be enabled? In OLAT this means that the correct solution is shown after an incorrect solution was entered by an examinee (i.e., this is typically only useful if maxattempts = 1).
stitle	character A title that should be used for the sections. May be a vector of length 1 to use the same title for each section, or a vector containing different section titles.
ititle	character A title that should be used for the assessment items. May be a vector of length 1 to use the same title for each item, or a vector containing different item titles. Note that the maximum of different item titles is the number of sections/questions that are used for the exam.
adescription	character Description (of length 1) for the overall assessment (i.e., exam).
sdescription	character Vector of descriptions for each section.
eval	named list, specifies the settings for the evaluation policy, see function exams_eval
...	forwarded to exams2qti12

Details

exams2olat is the old convenience interface to produce QTI 1.2 tests/exams for OpenOlat. It has been superseded by [exams2openolat](#) which offers more options and flexibility.

exams2openolat

Deprecated: Generation of Exams for OpenOlat (Uni Innsbruck)

Description

Unexported legacy interface to [exams2openolat](#) with slightly different default values as used at the Department of Statistics, Uni Innsbruck. Instead it is recommended to use [exams2openolat](#) directly.

Usage

```
exams2openolat(
  file,
  n = 1L,
  dir = ".",
  name = "olattest",
```

```

maxattempts = 1,
cutvalue = 1000,
solutionswitch = FALSE,
qti = "2.1",
stitle = "Aufgabe",
ititle = "Frage",
adescription = "",
sdescription = "",
eval = list(partial = FALSE, negative = FALSE),
template = "qti21",
...
)

```

Arguments

file	character. A specification of a (list of) exercise files.
n	integer. The number of copies to be compiled from file.
dir	character. The default is either display on the screen or the current working directory.
name	character. A name prefix for resulting ZIP and RDS file.
maxattempts	integer. The maximum attempts for one question, may also be set to Inf.
cutvalue	numeric. The cutvalue at which the exam is passed.
solutionswitch	logical. Should the question/item solutionswitch be enabled?
qti	character indicating whether QTI "1.2" or "2.1" (default) should be generated.
stitle, ititle, adescription, sdescription	character. Descriptions for various titles/descriptions. Defaults to generic German titles.
eval	named list. Specifies the settings for the evaluation policy, see function exams_eval . The default is not to partial credits for multiple-choice exercises.
template	character. The IMS QTI 2.1 template that should be used. In addition to the default template this can be set to "qti21test" which uses almost the same template but with a PASS variable. Thus, no cutvalue is needed and the online tests just generate a SCORE.
...	arguments passed on to exams2openolat .

Details

`exams2openolat` is a convenience interface for [exams2openolat](#) with somewhat different defaults: German titles/descriptions, partial credits disabled, solution switch turned off, large cut value (so that the test cannot be passed), and with fancy quotes turned off in verbatim R output. Finally, an RDS file is stored as a by-product containing the `xexams` list. This enables extracting and displaying specific exercises from an online test in R.

Value

A list of exams as generated by `xexams` is returned invisibly.

See Also

olat_eval olat_exercise

Examples

```
## load package and enforce par(ask = FALSE)
library("exams")
options(device.ask.default = FALSE)

## define an exams (= list of exercises)
myexam <- list(
  "boxplots",
  c("tstat", "ttest", "confint"),
  c("regression", "anova"),
  c("scatterplot", "boxhist"),
  "relfreq"
)

## output directory
mydir <- tempdir()

## generate .zip with German OpenOlat exam in temporary directory
## using a few customization options
exams2openolat(myexam, n = 3, dir = mydir, maxattempts = 2)
dir(mydir)
```

nops_eval

Deprecated: Evaluate NOPS Exams (Uni Innsbruck)

Description

Unexported legacy interface to evaluate NOPS exams produced with [exams2nops](#), and scanned by [nops_scan](#). Instead it is recommended to use [nops_scan](#) directly.

Usage

```
nops_eval(
  register = Sys.glob("*.csv"),
  solutions = Sys.glob("*.rds"),
  scans = Sys.glob("nops_scan_*.zip"),
  points = NULL,
  eval = exams_eval(partial = FALSE, negative = 0.25),
  mark = c(0.5, 0.6, 0.75, 0.85),
  dir = ".",
  results = "nops_eval",
  html = NULL,
  col = hcl(c(0, 0, 60, 120), c(70, 0, 70, 70), 90),
```

```

    language = "de",
    module = NULL,
    interactive = TRUE,
    string_scans = Sys.glob("nops_string_scan_*.zip"),
    string_points = seq(0, 1, 0.25)
)

nops_eval_writeuibk(
  results = "nops_eval.csv",
  file = "exam_eval",
  dir = ".",
  language = "en",
  ...
)

nops_register(
  file = Sys.glob("*.xls*"),
  startid = 1L,
  tab = !identical(startid, FALSE),
  pdf = !identical(startid, FALSE),
  split = NULL,
  info = NULL,
  verbose = TRUE,
  ...
)

```

Arguments

register	character. File name of a CSV file (semicolon-separated) of the registered students, e.g., as produced by <code>nops_register</code> based on the VIS registration lists. Must contain columns "Matrikelnr", "Name", "Account" (and "LV", in case module marks should be computed). The file name should not contain spaces, umlaut or other special characters (something like "GP-2014-02.csv" is recommended).
solutions	character. File name of the RDS exercise file produced by <code>exams2nops</code> .
scans	character. File name of the ZIP file with scanning results (containing Daten.txt and PNG files) as produced by <code>nops_scan</code> (or the FSS).
points	numeric. Vector of points per exercise. By default read from solutions.
eval	list specification of evaluation policy as computed by <code>exams_eval</code> .
mark	logical or numeric. If mark = FALSE, no marks are computed. Otherwise mark needs to be a numeric vector with four threshold values to compute marks from 5 to 1. The thresholds can either be relative (all lower than 1) or absolute. In case results exactly matching a threshold, the better mark is used.
dir	character. File path to the output directory (the default being the current working directory).
results	character. Prefix for output files.

html	character. File name for individual HTML files, by default the same as <code>register</code> with suffix <code>.html</code> .
col	character. Hex color codes used for exercises with negative, neutral, positive, full solution.
language	character. Path to a DCF file with a language specification. Currently, "en" and "de" are shipped with the package.
module	logical or numeric. Should module marks (in addition to the exam marks) be computed? If this is numeric, this can be a vector of two ECTS weights for the written exam and seminar, respectively (by default equal weights of 0.5 and 0.5 are used). If <code>module</code> is not <code>FALSE</code> , <code>register</code> needs to contain a column "LV" with the seminar marks.
interactive	logical. Should possible errors in the <code>Daten.txt</code> file be corrected interactively? Requires the <code>png</code> package for full interactivity.
string_scans	character. Optional file name of the ZIP file with scanning results of string exercise sheets (if any) containing <code>Daten2.txt</code> and PNG files as produced by <code>nops_scan</code> .
string_points	numeric. Vector of length 5 with points assigned to string results.
file	character. Name of the VIS file with the registration list.
...	Further arguments passed on to <code>nops_eval_write</code> .
startid	integer or logical, default 1L. If <code>FALSE</code> no random seats are generated.
tab	logical. Should a tab-separated file with the seat information be generated for OpenOlat? Defaults to <code>TRUE</code> if random seats are generated.
pdf	logical. Should PDF files with participant lists be generated for printing? Defaults to <code>TRUE</code> if random seats are generated.
split	integer. Number of participant lists ordered by seat.
info	character. Vector of length 4 with information about the exam: (1) type of exam (GP, LVP, VO, ...), (2) title of exam, (3) date/time (YYYY-MM-DD HH:MM), (4) location/room. By default the information is inferred from the VIS file.
verbose	logical. Should information about the registrations be printed to the screen?
...	further arguments passed to <code>read_vis</code> (e.g., <code>subset</code>).

Details

`nops_eval` is a companion function for `exams2nops` and `nops_scan`. It calls `nops_eval` from the `exams` package which evaluates the scanned exams by computing the sums of the points achieved and (if desired) mapping them to marks (and to module marks). Furthermore HTML reports for each individual student are generated for upload into OpenOlat. In addition to this function from the `exams` package, the function adds the marks in the Uni Innsbruck-specific format in an Excel spreadsheet.

`nops_register` is another companion function for preprocessing the registration lists that are provided by VIS. The function assigns random seats for every student and saves the result in both CSV and XLSX format as well as a tab-separated text file with the seat numbers for import into OLAT. The underlying workhorse function is `read_vis`.

Value

A data.frame with the detailed exam results is returned invisibly. It is also written to a CSV file in the current directory, along with a ZIP file containing the HTML reports (for upload into OLAT), and an XLSX file (for importing the marks into VIS).

See Also

[exams2nops](#), [nops_scan](#), [nops_eval](#), [read_vis](#)

nops_feedback

Generate nops test feedback files (answer/solution)

Description

Similar to what [olat_eval](#) does but in a more detailed way. Creates html files for each participant with feedback about his/her test results (including questions and solutions).

Usage

```
nops_feedback(res, xexam, name = "nops_feedback")
```

Arguments

res	data.frame, content of the csv file created by nops_eval .
xexam	list as returned from reading the rds file
name	character, name of the test, will be used to name the zip archive file and the html files

Value

Returns the name of the zip file created.

Author(s)

Reto Stauffer

nops_itemresp *Extract Item-Response Data from NOPS Exams*

Description

Process data from NOPS evaluation results (via [nops_eval](#)) for subsequent IRT (item response theory) modeling.

Usage

```
nops_itemresp(
  eval = "nops_eval.csv",
  exam = Sys.glob("*.rds"),
  psychotools = NULL,
  labels = NULL,
  ...
)
```

Arguments

eval	character. File name of CSV output from <code>nops_eval</code> .
exam	character. File name of RDS output from <code>exams2nops</code> .
psychotools	logical. Should <code>itemresp</code> from psychotools be used as the class for item response columns? By default, this is used if the psychotools package is available. If FALSE, matrices with dummy codings are used.
labels	function for extracting exercise labels from each <code>\$metainfo</code> . By default the original file name <code>\$metainfo\$file</code> is used.
...	additional arguments (such as <code>colClasses</code>) passed to <code>read.csv2(eval, dec = ".", ...)</code> .

Details

`nops_itemresp` returns a data frame with several item response outcomes for each student: `solved` indicates whether or not an exercise was fully solved, `partial` whether or not it was at least partially solved. `points` gives the points achieved for each exercise. The corresponding `nsolved`, `npartial`, and `npoints` are the sums of these for each student. Moreover, `solved2`, `partial2`, and `points2` distinguish not only the exercises within the exam but also the actual source template within each exercise.

Value

A `data.frame`.

See Also

[nops_eval](#)

olat_eval	<i>Evaluate OLAT Exams</i>
-----------	----------------------------

Description

Evaluate OLAT exams produced with [exams2olat](#), and carried out and exported in (Open)OLAT.

Usage

```
olat_eval(file, plot = TRUE, export = FALSE)
```

Arguments

file	character. Base file name of RDS and XLS file with exam generated by exams2olat and exported OLAT results, respectively.
plot	logical. Should barplots with the aggregated results be displayed on the screen?
export	logical. Should detailed questions along with individual results be exported to HTML files in a ZIP archive for convenient import into OLAT?

Details

olat_eval is a companion function for [exams2olat](#). It evaluates the exams carried out in OLAT for further processing outside of OLAT (in CSV format) and optionally exports detailed individual HTML reports (in a ZIP archive) for reimport into OLAT.

Value

A data.frame with the detailed exam results is returned invisibly. It is also written to a CSV file in the current directory, along with a ZIP file containing the HTML reports (for upload into OLAT).

See Also

[exams2olat](#)

olat_eval_adjust_lang	<i>Adjust language of variables/columns</i>
-----------------------	---

Description

Modifies the names of the variables in the dat.frame as read from the xlsx file (OpenOLAT). Converts the variable names to English such that we do no longer have to care about language in all other methods/functions.

Usage

```
olat_eval_adjust_lang(x)
```

Arguments

x data.frame read from the xlsx file

Details

Input 'x' is the data.frame as read from the xlsx file which contains user meta information and the detailed information about the individual questions of the test. Problem: depending on the user language settings of OLAT the names and order of the columns differs. This function takes input 'x' and manipulates the variable or column names in a way that the rest of the code ([olat_eval](#)) is not language dependent anymore.

- tries to guess the language by calling [olat_eval_guess_lang](#)
- loads the search-replace-data.frame (internally)
- search and replace variable names
- return input object x with new variable names

Note: Even English to English will rename some of the variables.

The function uses the data set `olat_eval_lang` which is shipped with the package (see `data("olat_eval_lang")`).

Value

Returns the same data.frame (same dimension and data) with adjusted names.

Author(s)

Reto

olat_eval_export	<i>Olat eval export</i>
------------------	-------------------------

Description

Takes the results from [read_olat_results](#) and the information from the rds file with the individual questions/answers to generate a zip archive file with individual test results (html file). This zip file can be used to upload to OLAT.

Usage

```
olat_eval_export(  
  results,  
  xexam,  
  file = "olat_eval.zip",  
  html = "Testergebnisse.html",  
  col = hcl(c(0, 0, 60, 120), c(70, 0, 70, 70), 90)  
)
```

Arguments

results	data.frame, results from read_olat_results
xexam	list the object loaded from the rds file which contains the individual questions/answers. The length of the list corresponds to the number of randomized tests, each list element contains N elements (N = number of questions) with all the information required to generate the output.
file	character, name of the zip file, the final archive file where to store the exported html files
html	character, name of the output files (html files)
col	character vector of length 4L with hex colors, default is <code>hc1(c(0, 0, 60, 120), c(70, 0, 70, 70), 90)</code>

Value

Return of the `zip()` call.

`olat_eval_guess_lang` *Guess language of the OLAT results file*

Description

Given a set of character vectors this function tries to guess the language of the imported file. This allows to evaluate exams from OpenOLAT in different languages. Used by [olat_eval](#) to rename the columns to make the evaluation independent from the language used when exporting the results via OLAT.

Usage

```
olat_eval_guess_lang(x)
```

Arguments

x	character vector with column names
---	------------------------------------

Value

Returns the language name ("en", "de") if the function is able to guess the language. Else the script will stop.

Author(s)

Reto

olat_eval_lang	<i>Olat evaluation language data set</i>
----------------	--

Description

Depending on the user profile language settings OLAT exports test results (xlsx file) in different languages. To make things easier in the **c403** package the variable names are modified using this language search-and-replace data set.

Usage

```
olat_eval_lang
```

Format

A data frame with a language flag (given your export was in German, only rows with lang == "de" will be considered). The two columns search and replace are used for gsub() (regular expression string replacement).

Author(s)

Reto Stauffer

olat_exercise	<i>Extract (and Display) Exercises from OpenOlat Exams</i>
---------------	--

Description

Extract (and display) selected exercises from OpenOlat exams produced with `exams2openolat` in order to see both question and solution.

Usage

```
olat_exercise(x, ..., fixed = TRUE, show = TRUE, mathjax = TRUE)
```

Arguments

x	character or list. Either an OpenOlat exam list as produced by <code>exams2openolat</code> or a character with the file path to an <code>.rds</code> file containing such an exam.
...	character. Either a single numeric index of the exam to be selected. Or, alternatively, patterns to be searched for in the question text of the exams in x.
fixed	logical. Should the search pattern(s) be matched as is?
show	logical. Should the exercise(s) found be shown in the browser?
mathjax	logical. Should the JavaScript from http://www.MathJax.org/ be included for rendering mathematical formulas?

Details

olat_exercise is a companion function for [exams2openolat](#). As OpenOlat has no option during an exam to look at the precise question of a particular student – and more importantly the corresponding solution – one strategy is to search for particular words, numbers, or other strings in the database of all questions from an OpenOlat exam.

olat_exercise goes through all questions in the exam and selects those question(s) that match(es) the given search patterns. By default the question(s)/solution(s) are displayed in the browser and returned invisibly.

Value

A list containing either a single exercise or a list of such exercises (in case the search patterns do not yield a unique question).

See Also

[exams2openolat](#)

olat_feedback

Generate OLAT test feedback files (answer/solution)

Description

Similar to what [olat_eval](#) does but in a more detailed way. Creates html files for each participant with feedback about his/her test results (including questions and solutions). For OLAT tests use [olat_feedback](#), for nops tests (written tests) use [nops_feedback](#).

Usage

```
olat_feedback(res, xexam, name = "olat_feedback")
```

```
olat_feedback_render_one(res, xexam, i, htmlfile = "Result.html", show = FALSE)
```

Arguments

res	data.frame, result from olat_eval
xexam	list as returned from reading the rds file
name	character, name of the test, will be used to name the zip archive file and the html files
i	integer, row index (which row in 'x' to render)
htmlfile	character, name of the output file
show	logical, if set to TRUE the html file will be opened in a browser

Value

Returns the name of the zip file created.

Author(s)

Reto Stauffer

read_olat_results	<i>Read OLAT Results from XLSX file</i>
-------------------	---

Description

Get OLAT test results (FIXME: eval support and cloze evaluation). TODO: Write proper documentation.

Usage

```
read_olat_results(file, xexam = NULL)
```

Arguments

file	name of the file ...
xexam	...

Value

...

read_vis	<i>Reading VIS Registrations</i>
----------	----------------------------------

Description

Read registration lists (for exams or courses) from the Excel export of VIS (which actually may or may not be XLS or HTML files).

Usage

```
read_vis(file, ...)

vis_register(file = Sys.glob("*.xls"), subset = TRUE)
```

Arguments

file	character with file name of an XLS file from VIS.
...	additional arguments passed to read.xlsx .
subset	logical. Should students without confirmed registration be omitted?

Details

VIS offers Excel exports but in case of registration lists these are actually HTML files containing an HTML table. (Note that as of 2021 VIS offers an additional “real Excel” export.) HTML tables are read using the XML package. However, some exports are also converted to actual Excel files which are read using the xlsx package. In either case some basic cleaning is done and additional meta-information is extracted.

The `vis_register` function loops over reading several VIS exports and then consolidates the resulting data frames.

Value

A data.frame with an additional attribute “info” providing details about the type of course (“LV”) or exam (“GP”).

 uibkmark

Auxiliary Formatting Functions

Description

Auxiliary functions for formatting elements of exams.

Usage

```
uibkmark(x, factor = TRUE)

mchoice2text(
  x,
  true = "\\textbf{Richtig}",
  false = "\\textbf{Falsch}"
)
```

Arguments

<code>x</code>	numeric (uibkmark) or logical (mchoice2text) vector.
<code>factor</code>	logical. Should the result be a factor or a character?
<code>true</code>	character. Text for true results.
<code>false</code>	character. Text for false results.

Details

The function `uibkmark` maps the numbers 1 to 5 to the mark labels SGT1, GUT2, etc. as used by UIBK.

The function `mchoice2text` masks the exams function of the same name in order to show German text.

Examples

```
uibkmark(1:5)
mchoice2text(c(TRUE, FALSE))
```

`vis_groups`*Randomly Assign VIS Participants into Groups (as HTML Table)*

Description

Randomly assign a vector of names (typically obtained from a VIS registration) into groups and display the result as an HTML table.

Usage

```
vis_groups(x, nrow = 5L, ncol = 2L, ...)
```

Arguments

<code>x</code>	character. Either a vector of names or a file name (csv or xls/xlsx from VIS) from which the Name column can be extracted.
<code>nrow, ncol</code>	numeric. Number of rows and columns into which the students should be assigned.
<code>...</code>	additional arguments passed to read_vis or read.csv2 .

Value

A character vector with the HTML code is returned invisibly.

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