

codebook

variable	description	source
chapter	the chapter that the item appears in	items
class_id	a unique identifier for this particular class	items
dcl_hint	the text that appears in the hint box	items
dcl_pre_exercise_code	the code run invisibly to set up the module	items
dcl_sample_code	the code in the module when it first loads	items
dcl_sct	the solution checking code (see the testwhat package for details)	items
dcl_solution	the code that appears in the solution tab	items
institution_id	a unique identifier for the institution the class was taken at	items
item_id	a unique identifier for this particular question (the values are arbitrary)	items
item_type	whether this is a learnosity (question about non-coding content) item or a coding item	items
lrn_activity_reference	the unique ID for the activity on Learnosity	items
lrn_question_position	for multi-question items, the position of the question in the item	items
lrn_question_reference	the unique ID for the question on Learnosity	items
lrn_template_name	the template used to create the item	items
page	the page that the item appears on	items
chapter	the chapter the video is in	media_views
class_id	a unique identifier for this particular class	media_views
dt_last_event	a datetime object indicating when the video was last interacted with (timezone: GMT/UTC)	media_views
dt_started	a datetime object indicating when the video was first started (timezone: GMT/UTC)	media_views
institution_id	a unique identifier for the institution the class was taken at	media_views
media_id	the unique identifier for the video	media_views
page	the page that the video is on	media_views
proportion_time	the proportion of the full video runtime that the student has spent watching a video, regardless of which part of the video they watched (e.g. if the video is 10 seconds long, and the student watches the first 5 seconds three ti	media_views
proportion_video	the proportion of the video that student has watched, summed across all interactions with the video	media_views
student_id	unique id identifying a student	media_views
chapter	the chapter that the item appears in	page_views
class_id	a unique identifier for this particular class	page_views
dt_accessed	A datetime object indicating when the page was accessed (timezone: GMT/UTC)	page_views
engaged	The amount of time the user was considered "engaged", in milliseconds, in the material. To maintain engagement, the user must do something on the page (click, mouse movement, scroll, etc.) at least every 2 minutes.	page_views
idle_brief	The sum of time the user was considered "idle" for a "brief" period of time. A user is considered "idle" if they are on the page but are not "engaged". The time period is considered "brief" if it is less than 15 minutes. Note that the	page_views
idle_long	The sum of times that the user was considered "idle" for a "long" period of time. A user is considered "idle" if they are on the page but are not "engaged". The time period is considered "long" if it is more than 15 minutes.	page_views
institution_id	a unique identifier for the institution the class was taken at	page_views
off_page_brief	The sum of timet the user was considered "off page" for a "brief" period of time. A user is considered "off page" if they have the page open but the page is not focused (e.g.it is open in another tab or the browser is not the acti	page_views
off_page_long	The sum of the periods that the user was considered "off page" for a "long" period of time. A user is considered "off page" if they have the page open but the page is not focused (e.g. it is open in another tab or the browser is	page_views
page	the page that the item appears on; includes the title, chapter and section.	page_views
student_id	a unique identifier for each student on CourseKata	page_views
tried_again_clicks	Number of "try again" clicks (once students complete a page, they can reset the page to "try again") regardless of whether that "try again" button was pushed on this access time	page_views
tried_again_dt	A datetime object indicating when "try again" button was clicked (timezone: GMT/UTC)	page_views
was_complete	When the student accessed the page, were they coming back after already having completed it?	page_views
attempt	the number of times the question has been attempted, including the current attempt	responses
book	book name	responses
chapter	the chapter that the item appears in	responses
class_id	a unique identifier for this particular class	responses
dt_submitted	a datetime object indicating when the response was submitted (timezone: GMT/UTC)	responses
institution_id	a unique identifier for the institution the class was taken at	responses
item_id	a unique identifier for this particular question (the values are arbitrary — treat them as random identifiers)	responses
item_type	whether this is a learnosity or coding item	responses
lrn_activity_reference	the unique ID for the activity on Learnosity	responses
lrn_dt_saved	a datetime object indicating when the responses was saved (timezone: GMT/UTC)	responses
lrn_dt_started	a datetime object indicating when the responses was started (timezone: GMT/UTC)	responses
lrn_question_position	for multi-question items, the position of the question in the item	responses
lrn_question_reference	the unique ID for the question on Learnosity	responses
lrn_response_id	the unique ID for this particular response on Learnosity	responses
lrn_status	the status of the question response on Learnosity (e.g. "Completed")	responses
lrn_type	the Learnosity type of the question (e.g. mcq, shorttext, plaintext, rating, etc.)	responses
page	the page that the item appears on; includes the title, chapter and section.	responses
points_earned	the number of points earned	responses
points_possible	the number of points possible if the completely correct answer is given	responses
prompt	the question prompt for this response	responses
release	release number (version of the book, e.g., 4.2, 5.1, 5.3)	responses
response	the value of the response: either the value (for shorttext, plaintext, ratings, datacamp, etc.) or an array of numbers indicating the position of the multiple choice answers chosen and which correspond to the columns lrn_optio	responses
student_id	unique id identifying a student	responses
user_agent	the browser user agent string for the user (see for details: <a href="https://developer.chrome.com/multidevice/user-agent">https://developer.chrome.com/multidevice/user-agent</a> ; also, this R package for parsing: uaparserjs)	responses
book	the book name	checkpoints
release	release version (version of the book, e.g., 5.0.1, 5.1, 5.3); named for the github branch for the materials	checkpoints
institution_id	a unique identifier for the institution the class was taken at	checkpoints
class_id	a unique identifier for this particular class	checkpoints
student_id	unique id identifying a student	checkpoints
response	the value of the response: either the value (for shorttext, plaintext, ratings, datacamp, etc.) or an array of numbers indicating the position of the multiple choice answers chosen and which correspond to the columns lrn_optio	checkpoints
construct	The psychological construct measured by the pulse-check item. One of cost, expectancy, Intrinsic Value, Utility Value. These items are meant to gauge the student's attitudes about the content being studied.	checkpoints
chapter_number	the chapter (as a number). Probably redundant information	checkpoints
EOC	proportion of correct answers for end of chapter questions for current chapter	checkpoints
n_possible	The number of end-of-chapter questions for the current chapter and so the highest possible score.	checkpoints
n_correct	The number of end-of-chapter questions that were correct for the current chapter	checkpoints
n_attempt	The number of attempts to answer the end of chapter questions as a whole. For example, if there were three questions, and the 2nd question was attempted twice, the n_attempts is 4.	checkpoints