

variable_list

variables	source_responses	source_items	source_pageviews	source_media	source	description
EOC	NA	NA	NA	NA	checkpoints	proportion of correct answers for end of chapter questions for current chapter
access_count	NA	NA	NA	media_views	NA	students can "access" the video multiple times (e.g., press play); this number tells you how many times video has been accessed so far (e.g., 1 is the first time video was accessed; 2 is second time)
attempt	responses	NA	NA	NA	NA	the number of times the question has been attempted, including the current attempt
book	responses	NA	page_views	media_views	checkpoints	the book name
chapter	responses	items	page_views	media_views	NA	the chapter that the item appears in
chapter_num	NA	NA	page_views	media_views	NA	the chapter (as a number)
chapter_number	responses	items	NA	media_views	checkpoints	the chapter (as a number). Probably redundant information
class_id	responses	items	page_views	media_views	checkpoints	a unique identifier for this particular class
completes_page	responses	NA	NA	NA	NA	whether this response completed the page. After completing that item, the student has no more items to complete on that page. Thus, if TRUE occurs for an earlier item, we can infer that the student skipped that item and the current item is not attempted.
construct	NA	NA	NA	NA	checkpoints	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.
dcl_hint	NA	items	NA	NA	NA	the text that appears in the hint box
dcl_pre_exercise_code	NA	items	NA	NA	NA	the code run invisibly to set up the module
dcl_sample_code	NA	items	NA	NA	NA	the code run invisibly to set up the module
dcl_sct	NA	items	NA	NA	NA	the solution checking code (see the testwhat package for details)
dcl_solution	NA	items	NA	NA	NA	the code that appears in the solution tab
dt_accessed	NA	NA	page_views	NA	NA	A datetime object indicating when the page was accessed (timezone: GMT/UTC)
dt_last_event	NA	NA	NA	media_views	NA	a datetime object indicating when the video was last interacted with (timezone: GMT/UTC)
dt_started	NA	NA	NA	media_views	NA	a datetime object indicating when the video was first started (timezone: GMT/UTC)
dt_submitted	responses	NA	NA	NA	NA	a datetime object indicating when the response was submitted (timezone: GMT/UTC)
engaged	NA	NA	page_views	NA	NA	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.
idle_brief	NA	NA	page_views	NA	NA	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 user can be "idle" for a "brief" period of time and then "engaged" again.
idle_long	NA	NA	page_views	NA	NA	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.
institution_id	responses	items	page_views	media_views	checkpoints	a unique identifier for the institution the class was taken at
item_id	responses	items	NA	NA	NA	a unique identifier for this particular question
item_type	responses	items	NA	NA	NA	whether this is a learnosity (question about non-coding content) item or a coding item
lrn_activity_reference	responses	items	NA	NA	NA	the unique ID for the activity on Learnosity
lrn_dt_saved	responses	NA	NA	NA	NA	a datetime object indicating when the responses was saved (timezone: GMT/UTC)
lrn_dt_started	responses	NA	NA	NA	NA	a datetime object indicating when the responses was started (timezone: GMT/UTC)
lrn_option_0	responses	NA	NA	NA	NA	the status of the item on Learnosity (e.g. "published")
lrn_option_1	responses	NA	NA	NA	NA	for Learnosity items that have multiple answer options (like multiple-choice, Likert ratings, etc.) these are the 0-indexed options the student could choose from (i.e., the first answer choice is represented with 0; second answer choice is represented with 1, etc.)
lrn_option_10	responses	NA	NA	NA	NA	
lrn_option_11	responses	NA	NA	NA	NA	
lrn_option_2	responses	NA	NA	NA	NA	
lrn_option_3	responses	NA	NA	NA	NA	
lrn_option_4	responses	NA	NA	NA	NA	
lrn_option_5	responses	NA	NA	NA	NA	
lrn_option_6	responses	NA	NA	NA	NA	
lrn_option_7	responses	NA	NA	NA	NA	
lrn_option_8	responses	NA	NA	NA	NA	
lrn_option_9	responses	NA	NA	NA	NA	
lrn_question_position	responses	items	NA	NA	NA	for multi-question items, the position of the question in the item
lrn_question_reference	responses	items	NA	NA	NA	the unique ID for the question on Learnosity
lrn_response_id	responses	NA	NA	NA	NA	the unique ID for this particular response on Learnosity
lrn_status	responses	NA	NA	NA	NA	the status of the question response on Learnosity (e.g. "Completed")
lrn_template_name	NA	items	NA	NA	NA	the template used to create the item
lrn_type	responses	items	NA	NA	NA	the Learnosity type of the question (e.g. mcq, shorttext, plaintext, rating, etc.)
media_id	NA	NA	NA	media_views	NA	the unique identifier for the video
n_attempt	NA	NA	NA	NA	checkpoints	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.
n_correct	NA	NA	NA	NA	checkpoints	The number of end-of-chapter questions that were correct for the current chapter
n_possible	NA	NA	NA	NA	checkpoints	The number of end-of-chapter questions for the current chapter and so the highest possible score.
off_page_brief	NA	NA	page_views	NA	NA	The sum of times 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 active window).
off_page_long	NA	NA	page_views	NA	NA	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 not the active window).
page	responses	items	page_views	media_views	NA	the page that the item appears on; includes the title, chapter and section.
page_num	responses	NA	page_views	media_views	NA	the page that the item appears on (as a number; 4.1, the first page in chapter 4, is represented as 4.01 in order to distinguish it from 4.10, the 10th page in chapter 4)
points_earned	responses	NA	NA	NA	NA	the number of points earned
points_possible	responses	NA	NA	NA	NA	the number of points possible if the completely correct answer is given
prompt	responses	NA	NA	NA	NA	the question prompt for this response
proportion_time	NA	NA	NA	media_views	NA	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 times, the proportion is 0.5)
proportion_video	NA	NA	NA	media_views	NA	the proportion of the video that student has watched, summed across all interactions with the video
release	responses	NA	page_views	media_views	checkpoints	release version (version of the book, e.g., 5.0.1, 5.1, 5.3); named for the github branch for the materials
response	responses	NA	NA	NA	checkpoints	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_option_0 through lrn_option_11
review_flag	responses	items	page_views	media_views	NA	indicates whether the item was part of a chapter review
section_number	NA	items	NA	media_views	NA	The section number of a page. For example, for page 1.04 the section number is 4.
student_id	responses	NA	page_views	media_views	checkpoints	unique id identifying a student
tried_again_clicks	NA	NA	page_views	NA	NA	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
tried_again_dt	NA	NA	page_views	NA	NA	A datetime object indicating the latest time when the "try again" button was clicked (timezone: GMT/UTC)
user_agent	responses	NA	NA	NA	NA	the browser user agent string for the user (see for details: https://developer.chrome.com/multidevice/user-agent ; also, this R package for parsing: uaparserjs)
was_complete	NA	NA	page_views	NA	NA	When the student accessed the page, were they coming back after already having completed it?

[illegible]