Requirements

Filemaker (written with v19.4, but should work with v16 or greater)

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			(ΩΤΙ	lr	mport (I) / I	Export (E) Lim	nits		
	Question Type	Figures	Import8	port or API POST	Questions	Answers	Alternatives	Distractors	0	S
1	essay	✓	✓	√ 1	1 (I/E)	1 (I/E)			É	
2	file upload		X 2	considering						
3	fill in multiple blanks	✓	✓	✓	1 (I/E)	9 (I/E)	3 (I/E) each		É	
4	fill in multiple blanks (table)	✓	X3	✓	3 (E)	9 (E)	3 (E) each		É	
5	formula question	X ²	X ²	X 2						
6	matching	✓	√ 4	✓	9 (I/E)	9 (I/E)		2 (E) total	É	
7	multiple answers	✓	✓	✓	6 (I/E)	6 (I/E)			É	
8	multiple choice	✓	√ 5	✓	1 (I/E)	6 (I/E)			É	
9	multiple drop down	✓	✓	✓	6 (I/E)	6 (I/E)		3 (I/E) each	É	
10	multiple drop down (table)	✓	X 3	✓	3 (E)	9 (E)		3 (E) each	É	
11	numerical answer	✓	√ 6	√ 6	1 (I/E)	1(I/E)			É	
12	short answer	✓	✓	✓	1 (I/E)	1 (I/E)	3 (I/E) total		É	
13	text (no question)	✓	✓	√ 7					É	
14	true/false	✓	✓	✓	1 (I/E)	1 (I/E)			É	

Notes

- 1 Question feedback is imported/exported for general comments only. Answer-specific comments are ignored.
- 2 possisble, but need real world example
- the table format is non-existent in QTI; it is generated in the database via HTML during export; if present in QTI quiz, the question is imported as a 'multiple drop down' and the table headers and questions will need to be fixed; current table is limited to 4X4
- 4 question distractors not imported (cannot figure out how to do so from the XML schema)
 - imports follow XML data structure, if the correct answer is listed first on Canvas, it will be imported as answer "A" in the database. To
- 5 avoid <u>all</u> multiple choice answers being "A" after re-exporting, either: 1) select shuffle answers when exporting the quiz or 2) rearrange the answers manually in the question database.
- 6 answer in the range' works, need to add 'exact answer' and 'answer with precision'; need real world example
- 7 properly positioning the 'text' question (spacer) during QTI export is not implemented related to known issue 1
- 8 all questions are imported without a question number, question numbers are used in the database to order questions for export

Quiz import compata	oility formats					
	File Format	Import	Figures			
	CSV	√ 1	X2		É	
2	2 FileMaker	√ 1	✓		É	
;	Microsoft Excel	√ 1	X ²		É	
4	QTI 1.2 XML Quiz				É	
	single quiz	✓	√ 3		É	
	all quizzes	✓	√ 3		É	
Į.	TAB delineated	√ 1	X2		É	
Notes						
	efficient import will r	equire a templ	ate that specifies	latafield targets, considering generating templates		
2	2 figures need to be m	nanually import	ed (drag/drop) into	the database		
;	quiz-associated figu	res as long as	the user has the a	r the folder in which the files are stored on Canvas. It contains all ppropriate file permissions. In a multi-instructor setting, figures may space. This is a Canvas limitation.		

Quiz Export						
	File Format	Export	Figures	Key		
1	HTML → Word				É	
	single quiz	✓	√ 1,2	√ 5	É	
	selected quizzes	✓	√ 1,2	√ 5	É	
	all quizzes	✓	√ 1,2	√ 5	É	
2	QTI 1.2 package ⁷				É	
	single quiz	✓	√ 4	√ 6	É	
	selected quizzes	✓	√ 4	√ 6	É	
	all quizzes	✓	√ 4	√ 6	É	
3	QTI 1.2 multi-quiz package	X_3	X 3	X ³		

Notes

- 1 HTML is exported into a folder named after the quiz. It includes a 'quiz.html' file and a folder named 'figures', which includes the appropriate figures. The 'quiz.html' file can be opened by Microsoft Word. Word and other applications do not always honor the imgage size settings, but should be adjustable within the importing application.
- 2 exported questions: matching question answers are **not mixed** and need to be adjusted after export; text_only questions are numbered in the database to facilitate ordering, but will not be numbered following import into Canvas
- 3 this isn't really needed given that quiz upload is rapid and can be looped easily
- 4 Canvas does not appear to honor the 'height' tag following import, but does honor the 'width' tag for figures, as such all figures are proportially scaled automatically in the database when width adjustments are made
- 5 the quiz key is exported into the same folder as the quiz.html and called quiz_key.html
- 6 key is not included for essay questions, this is a Canvas limitation
- 7 if a quiz export is not allowed to complete or is prematurely canceled, this may cause the Canvas import to lock up. Evidence of this is obvious on the Import status page. In this event, there are two options: 1) allow Canvas to clear the problem automatically (which can take up to 24 hrs) or 2) reset the course page. As a consequence, be sure to test exports using the developmental course.

Question Format Option	ons					
	Format	Import	Export			
1	HTML	X1	√ 2	•	É	
2	plain text	✓	✓	•	É	
3	RTF	X 1	√ 2	•	É	
Notes						
1	all question formatting is strippe	d during import	t (to avoid a displ	ay mess)		
2	automatically. Instead of <stron &a<="" (i.e.="" alphabet="" are="" automatically="" css="" hard-coded="" in="" substituted="" th=""><th>g>/bold Filemal Stransform to co lpha; → ;</th><th>ker uses "font sty omply with XML 1) and should be</th><th>ker. Formats (italic, underline, etc) will be sent to Canvas in HTML rele" which is not recognized by Canvas. The following characters are constraints <,>, ", ', &. Also, Unicode characters for lowercase Greek automatically converted into safe XML format. Other Unicode is buggy on Canvas after export, check for Unicode characters.</th><th></th><th></th></stron>	g>/bold Filemal Stransform to co lpha; → ;	ker uses "font sty omply with XML 1) and should be	ker. Formats (italic, underline, etc) will be sent to Canvas in HTML rele" which is not recognized by Canvas. The following characters are constraints <,>, ", ', &. Also, Unicode characters for lowercase Greek automatically converted into safe XML format. Other Unicode is buggy on Canvas after export, check for Unicode characters.		

Data Export Format Op	otions					
	File Format ²	Export	Figures		Ś	
1	CSV	✓	√ 1		É	
2	Microsoft Excel	✓	√ 1	•	Ś	
3	Filemaker	✓	✓	•	Ś	
4	TAB delineated	✓	√ 1	•	Ś	
Notes						
1	figures can be exported but are r	not linked to the	data file			
2	the database can be coded to exare stanards-based and should s			nat, it is just a matter of implementation, however, the options above		

Exported QTI package	settings					
	Feature	Options	implemented		Ĺ	
1	access code generation	random string	✓		Ĺ	
2	allow multiple attempts	number	✓		Ĺ	
3	anonymous submissions	true or false	✓		Ĺ	
4	dates			•	Ĺ	
	due date	date/time	✓	•	Ĺ	
	availability from	date/time	✓	•	Ĺ	
	available until	date/time	✓	•	Ĺ	
	show answer start date	date/time	√ 5	•	Ĺ	
	show answer until date	date/time	√ 5		Ĺ	
	show correct answers	date/time	√ 5		Ĺ	
5	hide results	always; until last attempt	✓		Ĺ	
6	post feedback	automatic	X 2		Ĺ	
7	Proctorio	true or false	√ 3	•	Ĺ	
8	publish	true or false	✓	•	Ĺ	
9	question bank incorporation	automatic	✓		Ĺ	
10	question bank suppression		X^4	•	Ĺ	
11	question number	number	✓		Ĺ	
12	quiz point value	number	✓	•	Ĺ	
13	quiz type	gnment; graded_survey; practice	√	•	Ĺ	
14	require LockDown browser	true or false	√ 7	•	Ĺ	
15	scoring policy	hightest or latest	✓	•	Ĺ	
16	suffle answers	true or false	✓		Ĺ	
17	time limit	number (min)	✓		Ĺ	
18	upload quiz associated figures	yes or no	√ 6		Ĺ	

Notes

- 1 if not specified, 'available until' date is substituted (available until is a far superior option)
- 2 if general feedback is entered into a question, it is posted to Canvas
- 3 Proctorio "Secure Exam Proctor" must be activated in Canvas Settings for the course before uploading quiz
- 4 cannot figure out if this is possible I would like to not have an automatic Question Bank populated
- 5 unavailable if "hide results" is populated
- 6 automatically specified in upload script
- 7 Respondus LockDown Browser can be set, but I don't know if it works because I've never used it

Quiz Management on (Canvas		
	Feature	implemented	added
1	Delete Quiz		
	single quiz	✓	
	selected quizzes	✓	
	all quizzes	✓	
2	Dynamic Hyperlinks		
	go to quizzes page	✓	
	go to import status page	✓	
	go to quiz preview	✓	
3	Download quiz list with IDs	✓	v. 2.5a
Notes			
1			than Canvas servers can keep up. If a quiz does not status page to see what is going on.

Features		implemented	added
1	Question tagging		
	create date or quiz tag	✓	
	delete date or quiz tag	✓	
	tag single question	✓	
	tag all questions in found set	✓	
	delete tag from found set	✓	
2	Auxillary question data		
	chapter #	✓	
	chapter title	✓	
	chapter topic	✓	
	chapter topic #	✓	
	learning objectives (1,2)	✓	
	question source	✓	
3	Question flags		
	in process	✓	
	checked	✓	
	modify	✓	
	selected	✓	
4			
	title	√	
	question #	√	
_	question format	√	
	rapid quiz date layout	√	
Notes		l- (()	
1	searches: "exam 1" finds anything wit 'feature', a script could be written to d	n "exam" or "1", it deal with this	one wants an exact

Known Issues — maybe I can fix, maybe I cannot

- 1 Figure out how to specify question sort order dynamically (q_format vs q_#), currently set by q_# in the database
- 2 If number of guizzes on Canvas > number of guizzes in database, an error is thrown when parsing guiz_id (#10) after post
- 3 Proctorio settings may not align given the \$string used specific to my settings (is this possible to change?)
- 4 TXT questions are not counted on Canvas as a question, but must be in the database, this will make questions out of register
- may be a problem with capturing/deleting pre-existing \$quiz_id if there are duplicate names (use 'Download & parse quiz IDs (cURL)' first) or scripts are terminated prematurely
- can upload quizzes faster than Canvas can keep up, this can cause quizzes to fall out of register for 'Delete quiz on Canvas based on ID'
- 7 quiz settings (instructions; times; etc) not imported need to scan assessment_meta.xml file; current import only scans question data file, I'm not sure this is useful
- The following characters cannot be present in a question as they cannot be uploaded in the XML (<, >, ", ', &). This is an XML limitation. Currently, a substitution calculation on export fixes this, so it may not be an issue.