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Supplement of

Jupyter Book as an open online teaching environment in the geosciences: lessons learned from Geo-SfM and Geo-UAV

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Table S1: Questions and answer types for the student surveys on the JupyterBook/GitHub framework.

Question/statement	Answers	Ref.
BACKGROUND INFORMATION		
I am affiliated/enrolled with UNIS...	YES NO	
My (educational/scientific) background mostly corresponds to....Biology	YES NO	
My (educational/scientific) background mostly corresponds to....Geology	YES NO	
My (educational/scientific) background mostly corresponds to....Geophysics	YES NO	
My (educational/scientific) background mostly corresponds to....Technology	YES NO	
My (educational/scientific) background mostly corresponds to....Safety	YES NO	
My (educational/scientific) background mostly corresponds to....Guiding	YES NO	
My (educational/scientific) background mostly corresponds to....Other	YES NO	
BACKGROUND KNOWLEDGE		
I was familiar with programming (e.g., Python, R, matlab)	- - + + + + +	Fig. B1
I was familiar with Jupyter Notebook/Lab	- - + + + + +	Fig. B1
I was familiar with Jupyter Book/Executable Book Project/Sphinx/Read The Docs	- - + + + + +	Fig. B1
I was familiar with YouTube	- - + + + + +	Fig. B1
I was familiar with animated GIFs	- - + + + + +	Fig. B1
I was familiar with git (e.g., GitHub)	- - + + + + +	Fig. B1
DEVICE USED		
I used the following device to read/interact with the compendiums:.Mobile phone	YES NO	
I used the following device to read/interact with the compendiums:.Tablet	YES NO	
I used the following device to read/interact with the compendiums:.Desktop	YES NO	
RATINGS AND OBJECTIVES		
What were your (learning) objectives when following the XXX Compendium?	Open	
Future documentations - your compendium ideas?	Open	
Rate your overall experience of using the XXX Compendium on a scale from 0 to 10, with 0 being extremely dissatisfied and 10 being extremely satisfied.	0 to 10	
Rate your overall experience of learning with the XXX Compendium on a scale from 0 to 10, with 0 being extremely dissatisfied and 10 being extremely satisfied.	0 to 10	
COMPENDIUM INFORMATION		
The XXX Compendium met my needs	- - + + + + +	Fig 2
The topics covered by the XXX Compendium were relevant to the course	- - + + + + +	Fig 2
The XXX Compendium pages were easy to navigate	- - + + + + +	Fig 2
The XXX Compendium content was clear	- - + + + + +	Fig 2
The XXX Compendium content was too difficult	- - + + + + +	Fig 2
I enjoyed using the XXX Compendium	- - + + + + +	Fig 2
I would recommend the XXX Compendium to others	- - + + + + +	Fig 2
I will use/have used the XXX Compendium after the module ended	- - + + + + +	Fig 2
What did you like most about the XXX Compendium? Try to come up with at least two examples.	Open	Table 1
What did you like least about the XXX Compendium? Try to come up with at least two examples.	Open	Table 1
MULTIMEDIA QUESTIONS		
The animated GIFs and videos explained the content clearly	- - + + + + +	Fig. 3
The animated GIFs and videos supplemented and clarified the text	- - + + + + +	Fig. 3

Table S1 continued ...

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Question/statement	Answers	Ref.
The use of animated GIFs and videos helped me better understand the material	- - + + + + +	Fig. 3
The quality of the animated GIFs was high	- - + + + + +	Fig. 3
The quality of the videos was high	- - + + + + +	Fig. 3
The animated GIFs played too fast	- - + + + + +	Fig. 3
The videos played too fast	- - + + + + +	Fig. 3
The animated GIFs lasted too long	- - + + + + +	Fig. 3
The videos lasted too long	- - + + + + +	Fig. 3
Being able to pause the animated GIFs would be useful	- - + + + + +	Fig. 3
A voice-over/spoken instruction would make the animations and videos better to understand	- - + + + + +	Fig. 3
I typically watched the videos at faster playback speeds	- - + + + + +	Fig. 3
I typically watched the videos at slower playback speeds	- - + + + + +	Fig. 3
On average, I rewatched individual animated GIFs x times	0 1 - 3 4 - 6 7 - 10	Table B2
On average, I rewatched individual YouTube videos x times	0 1 - 3 4 - 6 7 - 10	Table B2
On average, I paused YouTube videos x times	0 1 - 3 4 - 6 7 - 10	Table B2
What did you like about the mixed use of animated GIFs and videos in the compendiums? What worked?	Open	Table 1
What did you dislike about the mixed use of animated GIFs and videos in the compendiums? What did not work?	Open	Table 1
DID YOU KNOW?		
Individual compendium pages can be generated as PDFs from within the pages themselves?	YES NO	
You can contribute and suggest changes directly from the compendium pages?	YES NO	
The raw material for each compendium is openly available on GitHub?	YES NO	
GitHub hosts an issue and bug tracker for each of the compendiums?	YES NO	