

# CREATING ACCESSIBLE PDF FILES FROM L<sup>A</sup>T<sub>E</sub>X

## EXAMPLES OF TABLES, IMAGES, AND PLOTS

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This is an example of a table with the “presentation” tag, because there is no header and the point of using tabular in this case is to nicely display the information.

Exam 1	100 points	(16.67%)
Exam 2	100 points	(16.67%)
Exam 3	100 points	(16.67%)
Final Exam	150 points	(25%)
Edfinity Homework	75 points	(12.5%)
Classwork	75 points	(12.5%)
<b>Total</b>	<b>600 points</b>	

On the other hand, this is a table with the first row marked as a header. This allows an HTML conversion to properly format the first row. It does not seem to make an audible difference during screen reading, however, when compared to the table above.

WEEK	SECTIONS COVERED	EVENTS
1/19	§1.1 §1.2	Classes begin Wednesday 1/21
1/26	§1.3 §1.4 §1.5	

This is an example of an image. The alternative text will be read during screen reading. Note the use of the “H” placement key in the figures and tables. Experience has shown that when no placements are provided, or when a more standard placement like [htbp] is used, the figure (or table) may not be read in the correct order in the document.



In the following, a caption is passed to the figure. A simple rule from the graphicx package is that the caption must be the very first or very last line in the figure environment. After some testing, it appears that the caption is always read before the alternative text.

Figure 1: Look at this cool caption!



In the next figure, the “artifact” key is passed. This is only for decorative images, and it will be excluded from the tags. It is unclear if the “artifact” option is actually useful—wouldn’t all images benefit from alternative text?



Lastly, our same image again but with the “actualtext” option.



On Brightspace, you can test your PDF file’s ability to be screen read by opening the file and clicking the speaker icon at the top. Clicking “listen” at the top will play the file. By clicking the menu icon at the top right and choosing “Text Mode”, the PDF file is displayed *as if* it was an HTML document (essentially). See the screenshot below.

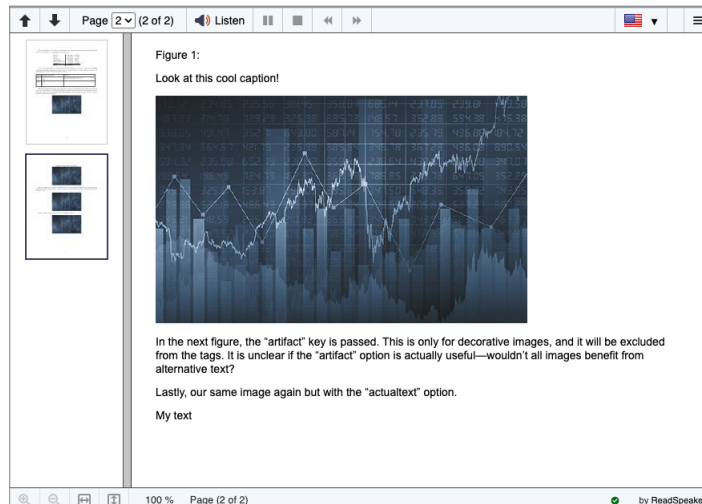


Figure 2: Illustrating the “Text Mode” feature of the Brightspace screen reader.

Not only does this show if your tagging worked (e.g., if your table is not being parsed correctly), but also clearly illustrates what the “actualtext” option in figures does.

For those of us that create graphs in tikz and pgfplots, it is possible to add alternative text to those as well directly to the tikzpicture environment.

