Reports using MS Word

ChEn 1703



Figures

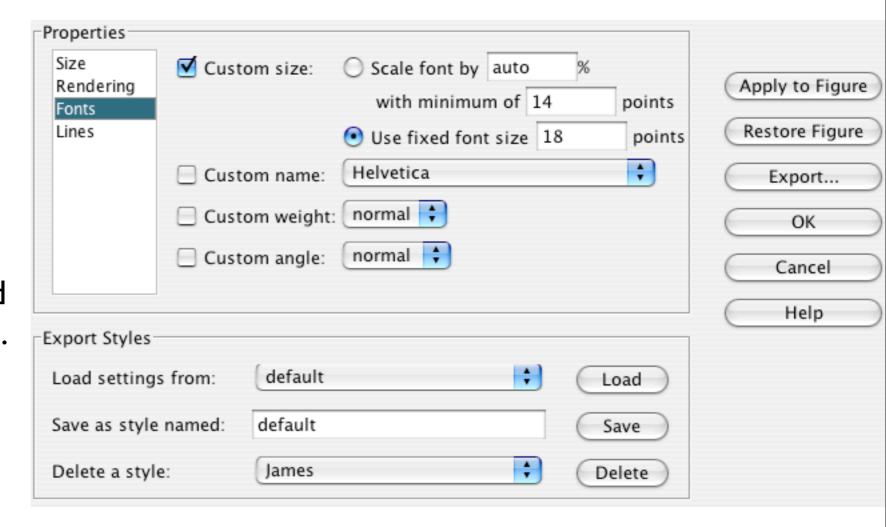
- Inserting a figure:
 - If saved on disk:
 Insert→Picture→From File
 - If copied onto the clipboard, simply paste it.
 - Drag & drop from another application...
- Creating a caption
 - Select the figure, Insert→Caption
 - Set label to "Figure"
 - Type text for your caption in the text box & click "OK"

- Formatting
 - Right-click & choose "Format Picture"
 - Size allows you to change figure's size
 - "Lock Aspect Ratio" prevents you from distorting figure...
 - Layout changes how text wraps around figure.
 - Click "Advanced" & select "Top and Bottom" to have no text wrapping.

NOTE: MS Word doesn't handle figures too well. Occasionally, captions can detach. Try not to drag figures around the document once you place them...

Exporting MATLAB Figures

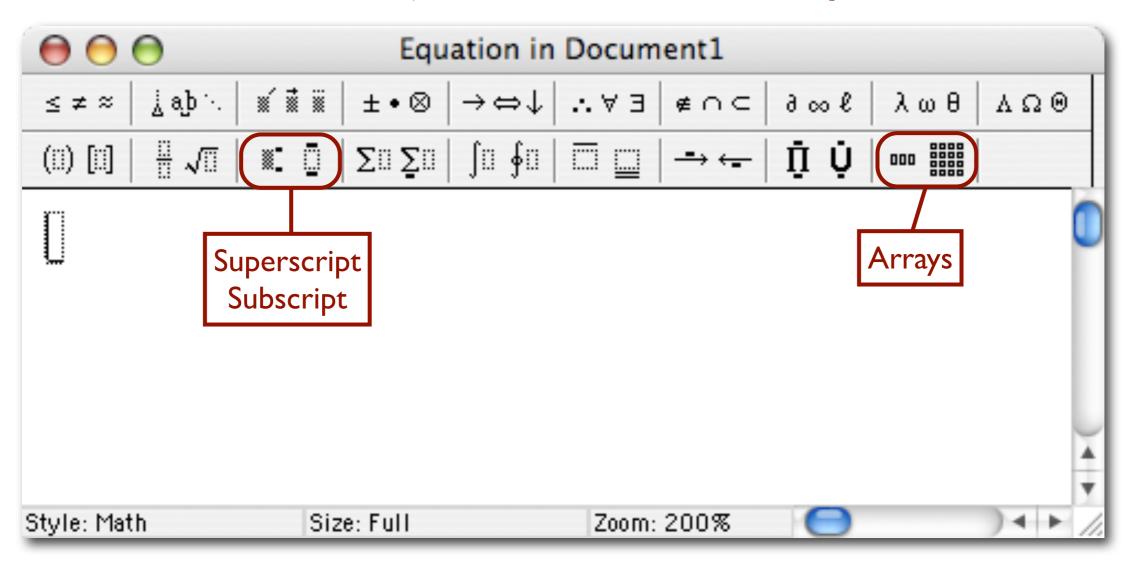
- In the figure, choose
 File → Export setup
 - Edit fonts, background, etc., or choose a predefined export style.
 - Click "Export" and choose the file name and type (eps, tiff, jpg, gif, etc).
- Copy & Paste the figure into MS word, Powerpoint, etc.





Equations

Insert→Object→Microsoft Equation



Close Equation Editor when you are done to insert the equation into MS Word.



Numbering Equations

http://support.microsoft.com/kb/212381/EN-US/ or see the class wiki page

- I. On a new line, insert a tab, then insert the equation, then insert another tab.
- 2. Choose Insert→Caption, and select "Equation" as the label type.
- 3. Click the "New Label" button and enter "(" and click "OK."
- 4. Enter a ")" after the caption and push enter.
- 5. Select the entire line of text & choose Table → Convert → Convert Text to Table.
- 6. Choose 3 columns & click "OK."
- 7. Choose Format→Borders and Shading and click the "none" box.
- 8. Right-click on the cell containing the formula and choose Cell Alignment→Align Center.
- 9. Right-click on the cell containing the label and choose Cell Alignment→Align Center Right.

NOTE: Modify step 6 (2 columns) and 8 (align left) if your equation should be aligned left.



Cross-References

- Choose type of cross reference (figure, equation, table, etc.).
 - Note that for equation references, you should select "(" as the type of cross reference (see slide on numbering equations).
 - Pay attention to the drop-down box entitled "Insert caption reference to:"
 - ▶ On figures, only insert the label & number, e.g. "Figure 2"
 - ▶ On equations (see slide on numbering equations), use "Entire caption"
- If references are "out of date" then select the whole document, right-click and choose "Update Field"

Citations / Bibliography

- At the end of your document, start a new section entitled "References"
- Begin a numbered list
- Add each reference as a new item in the list
- Refer to references using Insert→Cross Reference
 - Note that inserting a reference in the beginning of the list can break the cross-referencing to the first item...
 - Adding references in the middle or at the end works fine.

NOTE: As with equations, no elegant solution exists in Word 2003.



Alternatives...

- LaTeX a very powerful typesetting language.
 - http://www.latex-project.org/
 - VERY good at equations, placing figures, and doing cross-references.
 - Used extensively in the math, science & engineering fields for technical reports & papers.
 - Produces PDF documents
 - Not GUI-based WYSIWYG.
 - Available on all platforms (Windows, Mac, Linux, Unix).
- Lyx GUI front-end for LaTeX. Very good for "beginners" and experts alike.
 - www.lyx.org
 - Available for Windows, Mac, Unix, Linux.

