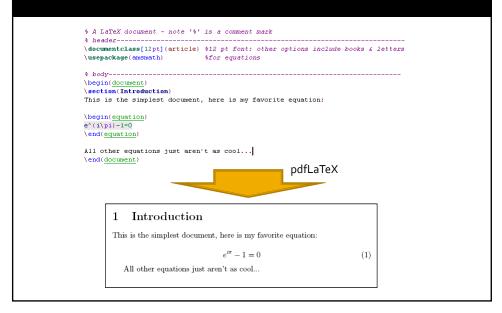
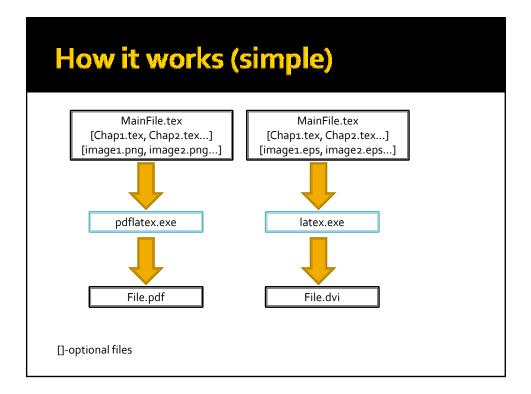


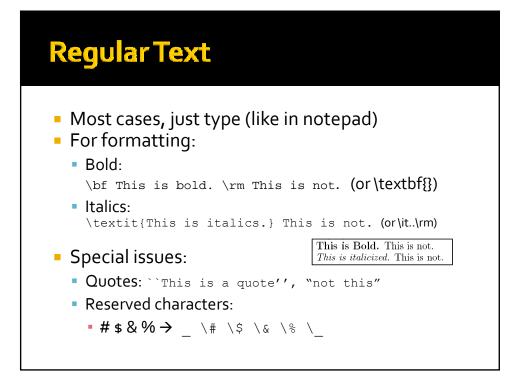
### LaTeX: What is it?

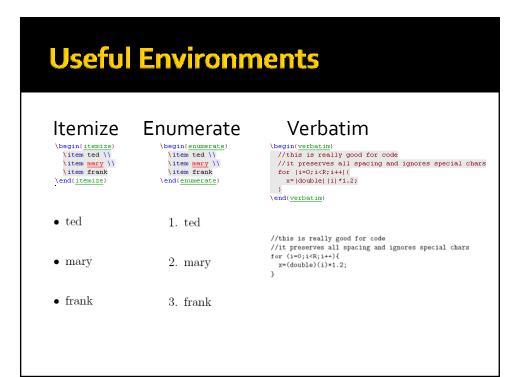
- LaTeX is essentially a markup language
  - You provide LaTeX with a text-based document that is part text, part code (kind of like a simple HTML)
  - LaTeX does all of the formatting, referencing, pagination, table of contents, etc. for your document through a compiler
  - Thousands of LaTeX packages allow you to customize the final appearance of your document

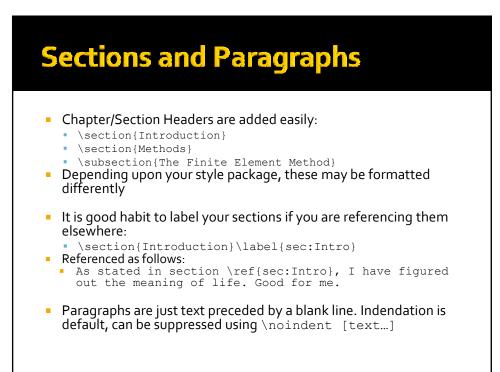
### LaTeX: the simplest document

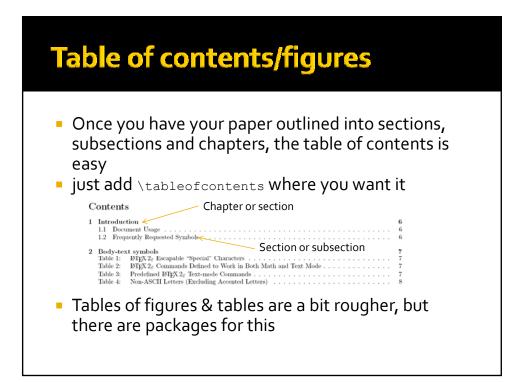


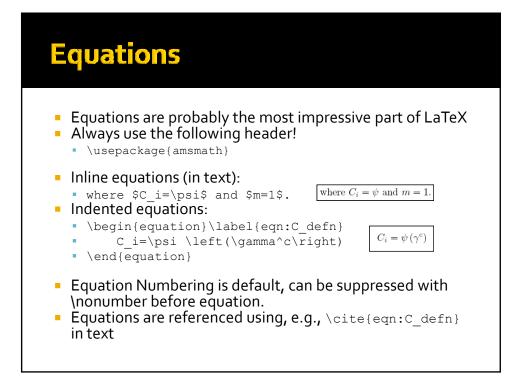


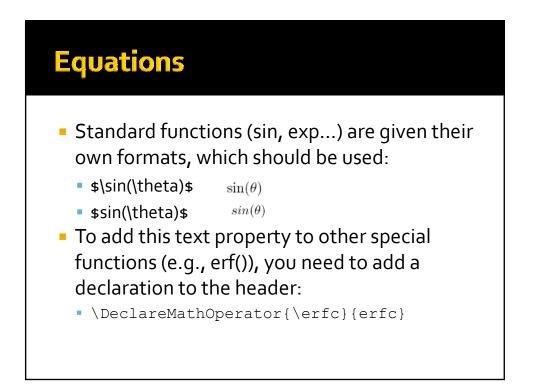












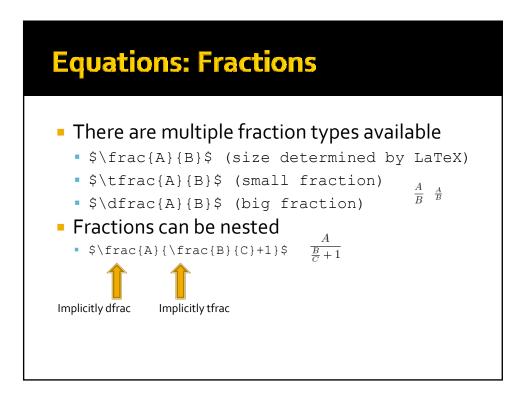
# C\_i subscript C<sub>i</sub> C^i superscript C<sup>i</sup> Curly braces are only used to group terms, and do not show up in equations H\_{specified} not H\_specified H\_specified H\_specified For parentheses, use \left( and right) (or left[ or \left\{ ...)

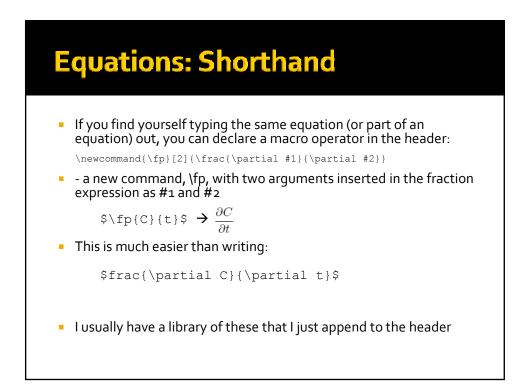
-these will adjust their size for the contents of the parenthesis

# **Equations: Characters**

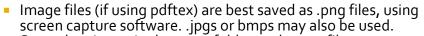
α β γ δ ε ε ζ η	<pre>\alpha \beta \gamma \delta \epsilon \varepsilon \zeta \eta</pre>	θ ϑ γ κ λ μνξ	<pre>\theta \vartheta \gamma \kappa \lambda \mu \nu \xi</pre>	ο π ϖ ρ ε σ ς	o \pi \varpi \rho \varrho \sigma \varsigma	τυφφχψω	<pre>\tau \upsilon \phi \varphi \chi \chi \psi \psi \omega</pre>
Γ Δ Θ	\Gamma \Delta \Theta	х Е П	∖Lambda ∖Xi ∖Pi	Σ Υ Φ	\Sigma \Upsilon \Phi	Ψ Ω	\Psi \Omega

Symbols	Latex Command					
	Normal Mode	Math Mode				
õ	\~{0}	\tilde(o)				
ό	\'{0}	\acute(o)				
ô	\^{0}	\hat(o)				
ö	\"(o)	\ddot(o)				
ò	\`(o)	\grave(o)				
0	\={0}	\bar(o)				
0	\.{0}	\dot(o)				
0	\u{o}	\breve(o)				
0	\v{o}	\check(o)				
0	\H{0}					
00	\t{00}					
0	\c(o)					
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ō		\vec(o)				
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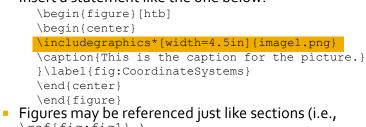


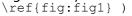
### **Including Images**



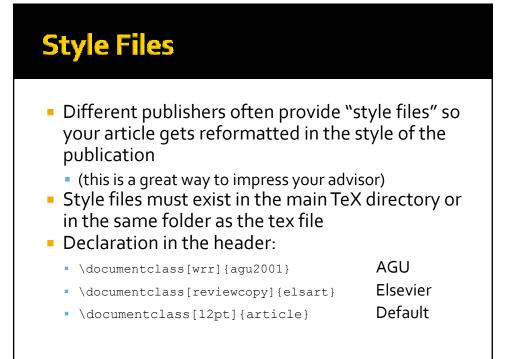
- Store the picture in the same folder as the .tex file
- The following header must be present: \usepackage[pdftex] {graphicx}

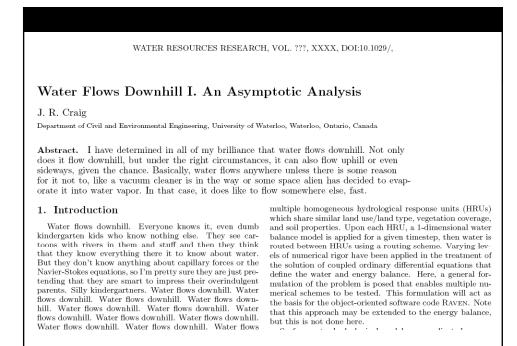




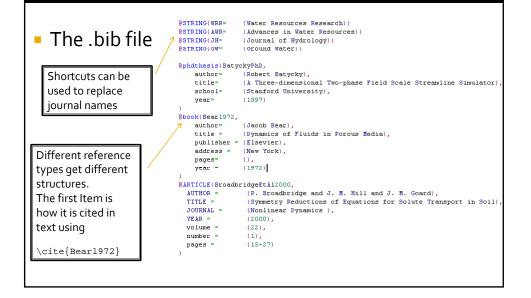


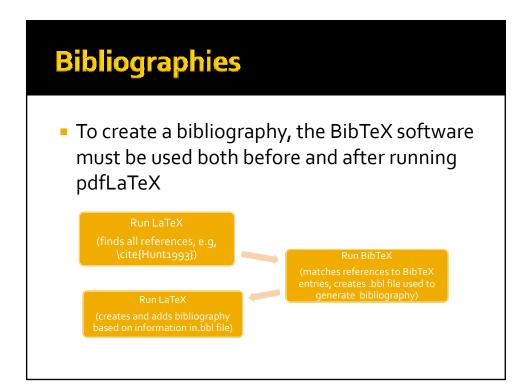
Including Tables									
inclouing rapies									
\begin(table)[!ht]		I				1			
(begin(table)[int]	enτ	ACM	error	UFD	लाल	CDFD	GTOL	HIGHFI	
\renewcommand(\tabcolsep)(0.35pc) % reduce column spacing	m	mg/L	196	mg/L	196	mg/L	%	mg/L	
<pre>\renewcommand(\arraystretch)(1.1) * enlarge line spacing \begin(tabular)( r  cr cr cr c ) Alicement codes</pre>	11.9	mg/ L	<u></u> . 96	mg/L	79	mgtr	740	mg/L	
(hline) ( r  er	1	97.179	-0.48	96.865	-0.80	97.119	-0.54	97.645	
$\leq ACM$ s error s <u>UFD</u> s error s <u>CDFD</u> s error s <u>HIGHFD</u> ID s mg/L s [\%]~ s mg/L s [\%]~ s mg/L \\		91 621	-1.05	ST 432	-1.28	91.864	-0.81	<b>32.617</b>	
The mg/h a [(s]" a mg/h a [(s]" a mg/h a [(s]" a mg/h () \hline									
1 & 97.179 & -0.48 & 96.865 & -0.80 & 97.119 & -0.54 & 97.645	1 3	\$7.029	-1.09	86.189	-1.96	87.044	-0.96	87.909	
2 & 91.621 & -1.08 & 91.432 & -1.28 & 91.864 & -0.81 & 92.617	Δ.								
3 & 87.029 & -1.00 & 86.189 & -1.96 & 87.044 & -0.98 & 87.909	1 4	82.115	-0.66	80.033	-3.18	81.753	-1.10	\$2.659	
4 ε 82.115 ε -0.66 ε 80.033 ε -3.18 ε 81.753 ε -1.10 ε 82.659	Λ.			I		I		I	
5 & 81.495 & -0.03 & 78.397 & -3.83 & 80.700 & -1.01 & 81.522	Λ								
hline									
6 & 99.919 & -0.00 & 99.834 & -0.09 & 99.890 & -0.03 & <del>99.</del> 923	Λ.								
7 & 99.135 & 0.03 & 98.736 & -0.28 & 98.943 & -0.17 & 99.108 \									
8 & 97.225 & 0.46 & 95.870 & -0.94 & 96.383 & -0.41 & 96.781 \\									
9 & 94.565 & 2.51 & 89.931 & -2.51 & 91.634 & -0.67 & 92.248 \			same	e # of	sepa	arator	rs (&)	)	
10 & 93.018 & 22.25 & 74.517 & -2.07 & 81.646 & 7.30 & 76.091	1								
hline									
11 & 97.180 & -0.50 & 97.274 & -0.40 & 97.235 & -0.44 & 97.666	77								
12 & 91.650 & -0.92 & 91.977 & -0.57 & 91.719 & -0.85 & 92.502	$\Delta \Delta = 0$								
13 & 86.951 & -0.24 & 86.574 & -0.67 & 86.259 & -1.03 & 87.161	$\Lambda\Lambda$								
14 & 83.331 & 3.86 & 79.289 & -1.18 & 79.396 & -1.05 & 80.235	Λ.								
\end(tabular)									
Caption(Steady-state concentrations of the ACM, UFD, CDFD and HIGHFD simulations, and their									
relative deviation from the HIGHPD simulation results for the high dispersivity case									
(\$\alpha 1\$=1,\$\alpha t\$=0.3].) \label(tab:Test1SteadyState)									
\end(table)									

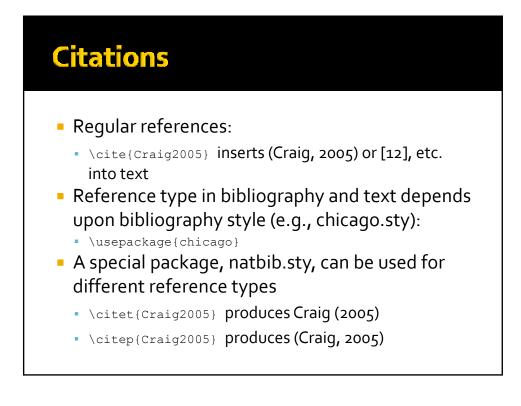




## **Bibliographies**







# Separating your document into multiple files

- WinEdt Allows you to create a "project" with a main file and a bunch of lesser files
- All you have to do to add each file is to add the following line in the "master" tex file
  - \include{Calibration}
  - (for file Calibration.tex in same directory)
- The file is treated as if it is just inserted in this spot

