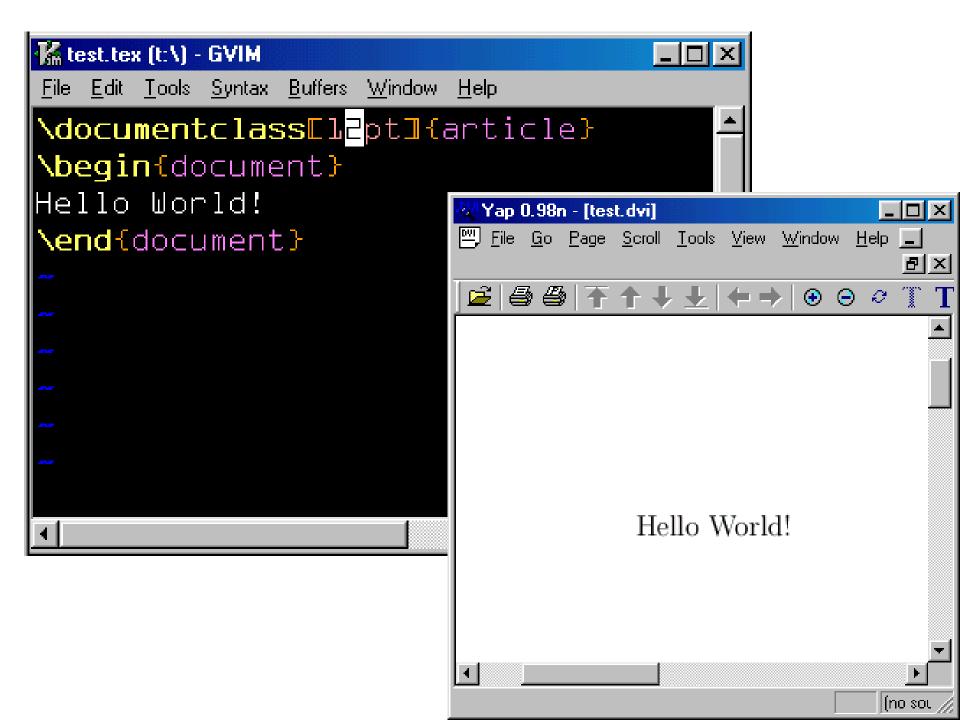
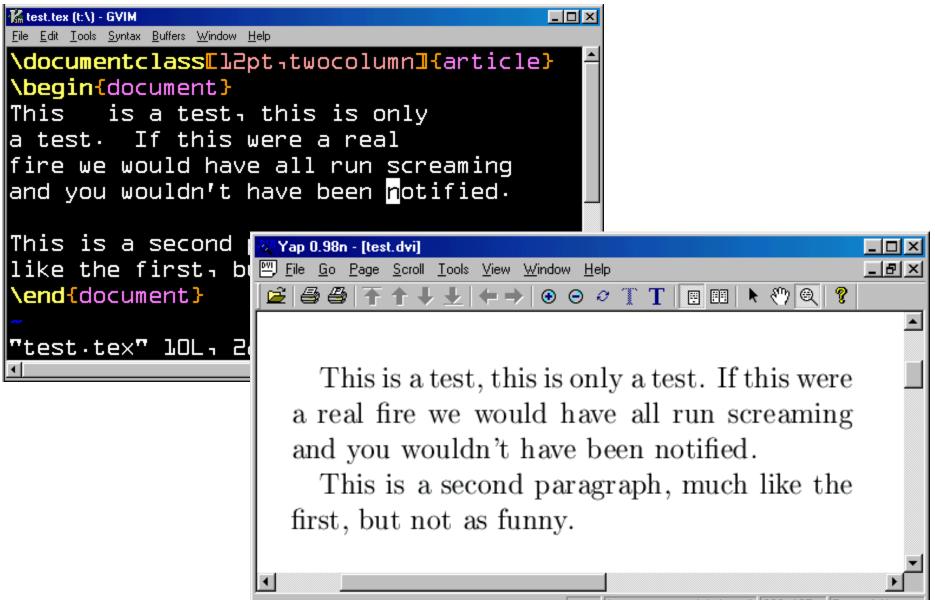
How to do stuff in LaTeX

Outline

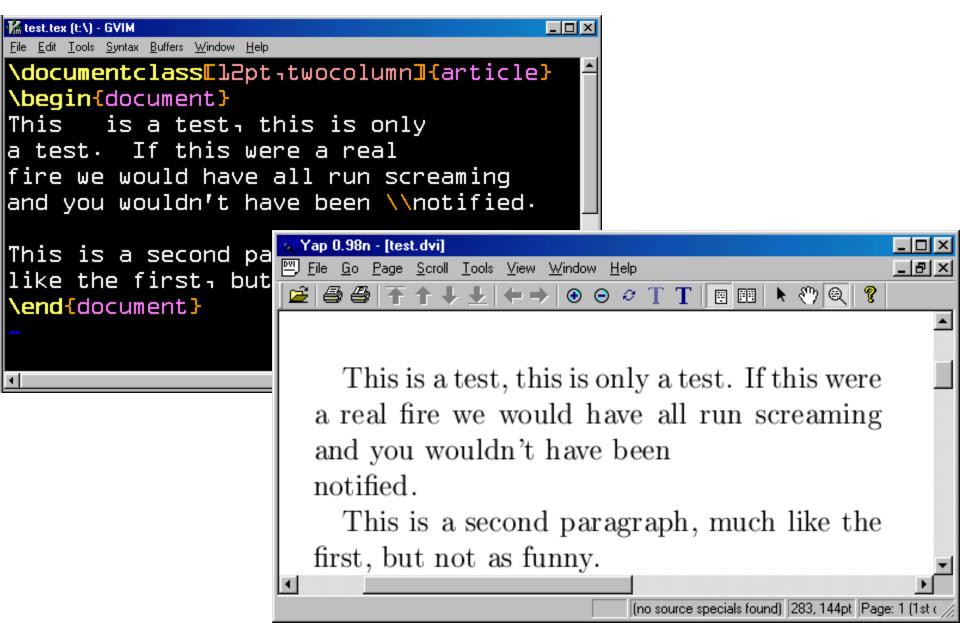
- Starting Out.
- LaTeX as your word processor.
- Compose formulas.
- Include pictures and figures.



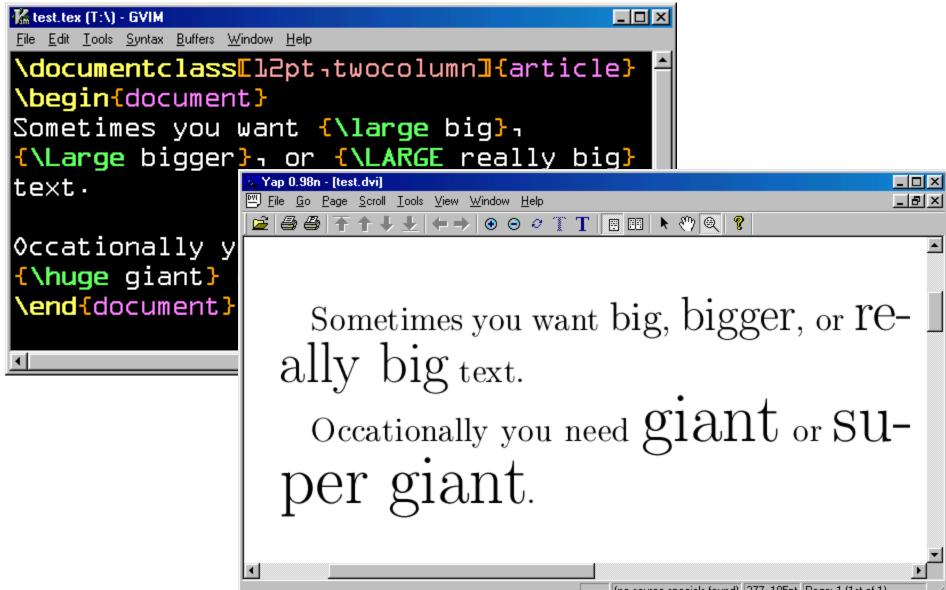
Spacing, sentences, paragraphs



using \\ for line breaks



changing the font size



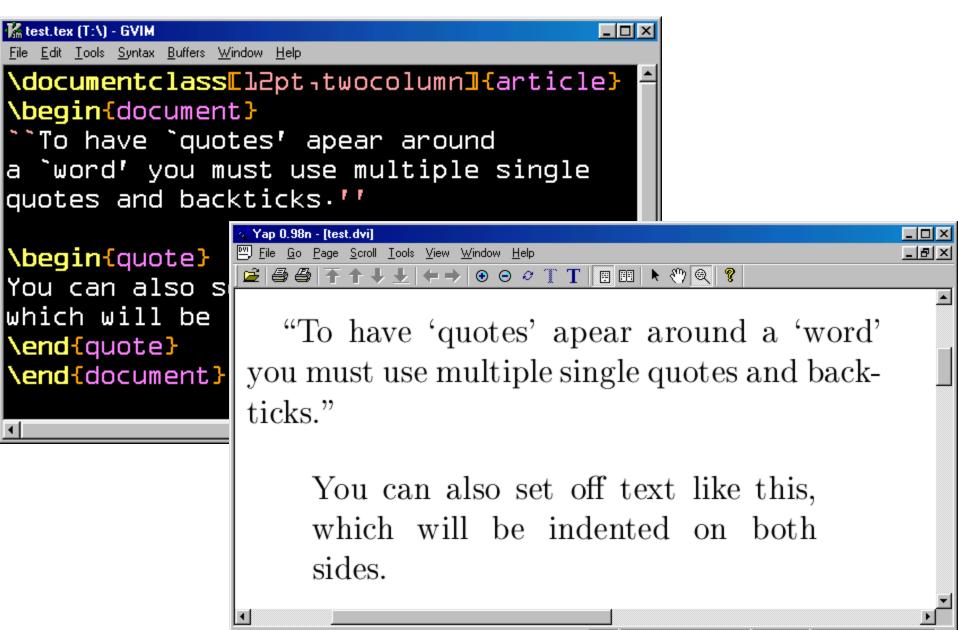
changing the font style

	\mathcal{O}	\mathcal{O}		
🕻 test.tex (T:\) - 6	IVIM			
<u>File Edit Tools S</u>	yntax <u>B</u> uffers <u>W</u> indow <u>H</u> elp			
\documer	itclass ⊑l2pt¬two	ocolumn <mark>]{</mark> arti	cle} 🗎	
c	locument}			
_	; common change	vou'll make		
	g {\em emphasis			
	es bold} text :			
	also \underlin			
	all \bfserie	s at		
	I <mark>ne</mark> {once}			
doc	Vap 0.98n - [test.dvi]			
	🖳 <u>F</u> ile <u>G</u> o <u>P</u> age <u>S</u> croll <u>T</u> ools <u>V</u> ie	w <u>W</u> indow <u>H</u> elp		X
•	≤ 440 7111	🔶 💿 🗢 T T 📘 🖪	II 🕨 🖑 🍳 🤋	
	The most o	common chai	nge vou'll n	nake is 🖃
			0 0	
	adding <i>empha</i>	sis, but bol	text is als	o nice.
	You can also g	underline. or	do all at o	nce.
	•			<u> </u>
		líno se	urce specials found) [270, 159pt]	Page: 1 (1st of 1)

justifications

K test.tex (T:\) - GVIM		
<u>File Edit Iools Syntax Buffers Window Hel</u> \documentclass L2p1 \begin{document}	₁twocolumn <mark>]{</mark> article} ←	
left		
\begin{ center} middle		
\end{center}		
\begin{ flushright}	∜Yap 0.98n - [test.dvi]	
right	≝ Eile <u>G</u> o Page <u>S</u> croll <u>T</u> ools ⊻iew <u>W</u> indow <u>H</u> elp	_ 뭔 ×
\end{ flushright }	😰 🚭 주 ↑ ↓ ± ← → ④ ⊖ ⊘ `	TT 🗄 🖽 🕨 🔍 🔍 💡
<pre>\end{document}</pre>	left	
•		
	m	iddle
		• • ·
	-	right
		(no source specials found) 195, 187pt Page: 1 (1st of 1)

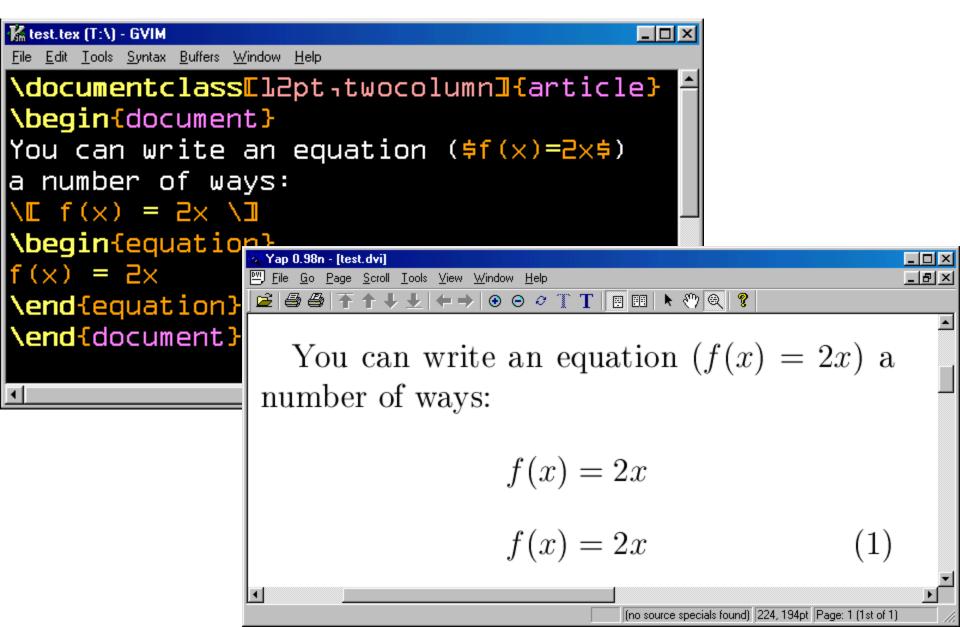
quoting



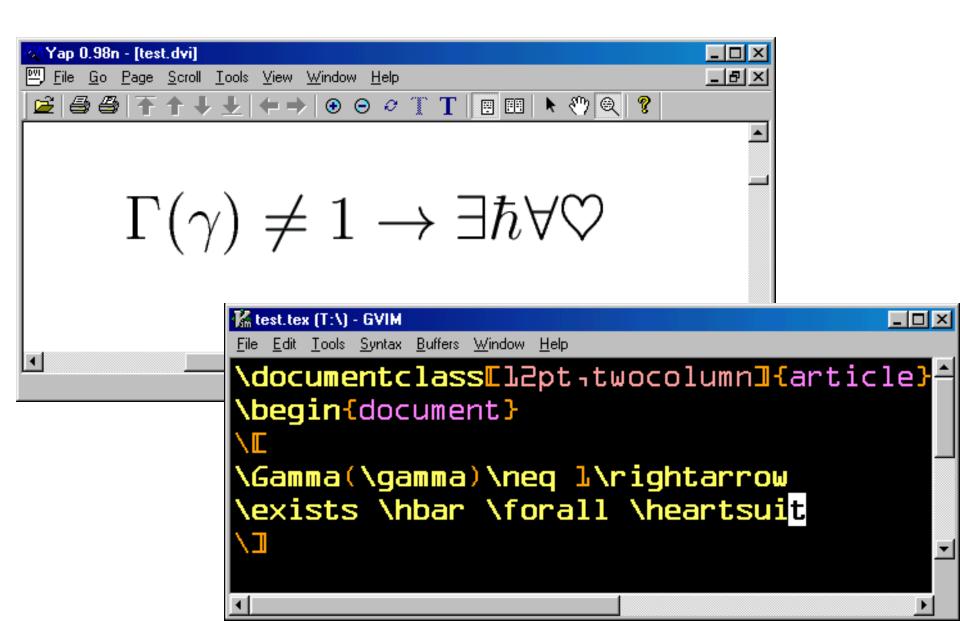
other tricks

🌃 test.tex (T:\) - GVIM		
<u>File E</u> dit <u>T</u> ools <u>S</u> yntax <u>B</u> uffers <u>W</u> indow		
\documentclass[1]	2pt¬twocolumn <mark>]{</mark> article} 🔶	
\begin {document}		
Other things \La	TeX does easily	
that I won't go :		
<pre>\begin{itemize}</pre>	💐 Yap 0.98n - [test.dvi]	
\item lists	<u>F</u> ile <u>G</u> o <u>P</u> age <u>S</u> croll <u>T</u> ools <u>V</u> iew <u>W</u> indow <u>H</u> elp	_ 뭔 ×
	<u> ≥ ⊕ ⊕ ∓ ↑ ↓ ↓ ← → ⊙ ⊝ ⊘ ∏ T ⊡ III ▶ ∛) @ ?</u>	
\item tables		
\item boxes	Other things LATEX does easily that I won't	
\end{ itemize }		
	go into.	
<pre>\end{document}</pre>		
~		
~	• lists	
	\bullet tables	
	• boxes	
		-
	[no source specials found] 206, 240pt Page: 1 (1st of 1] ///

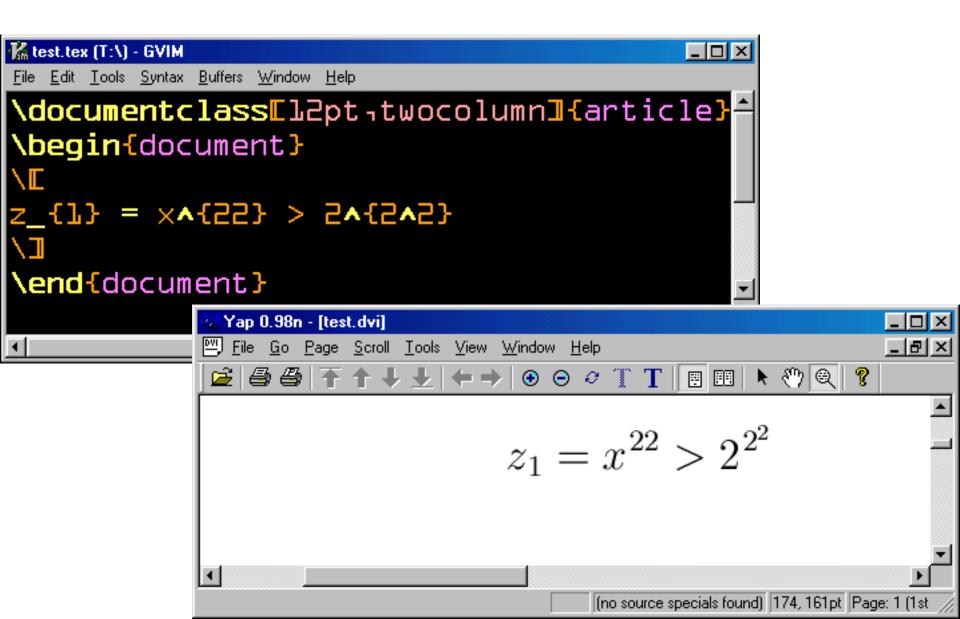
mmm. math mode.



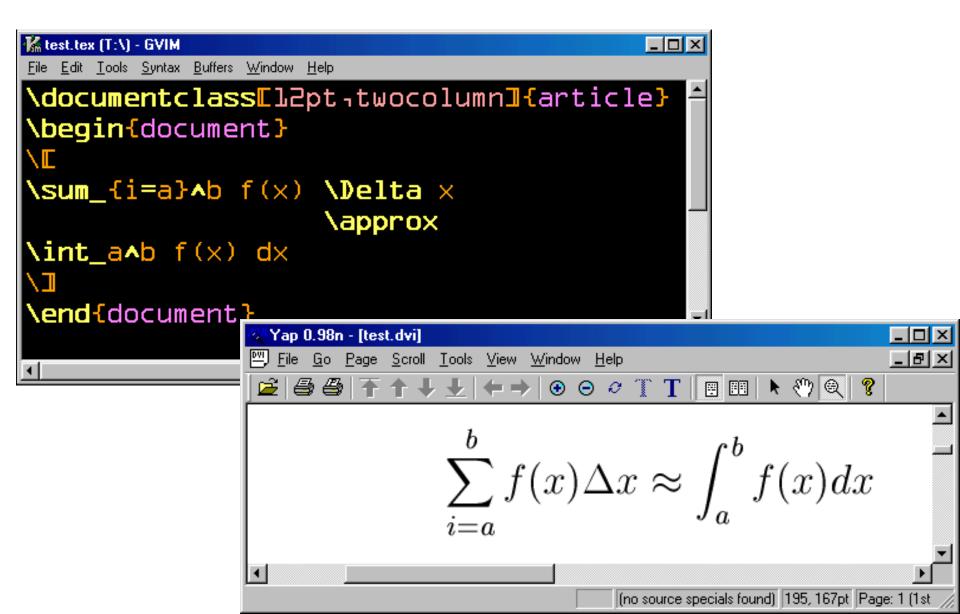
the big secret of LaTeX



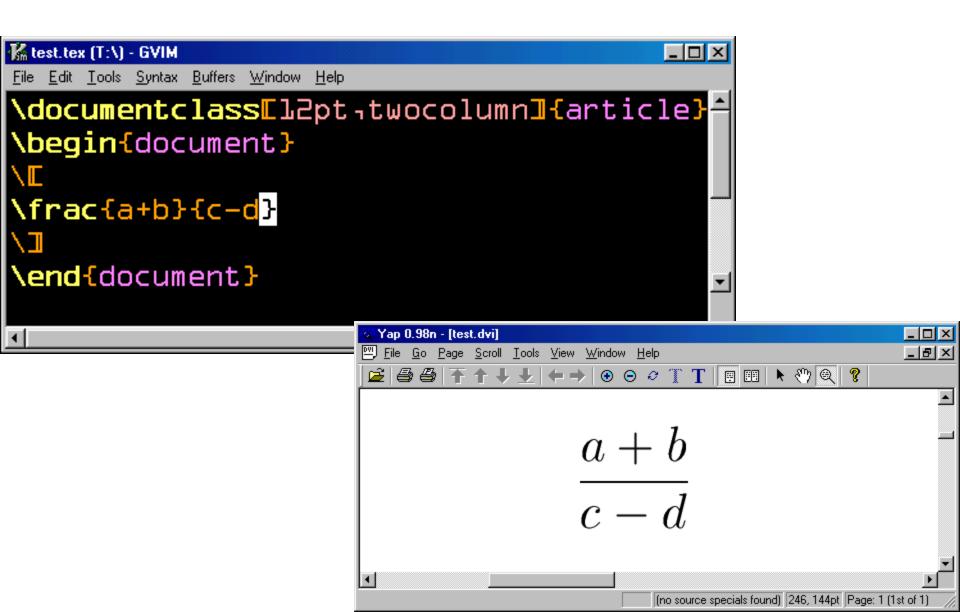
subscripts, superscripts



integrals, summations



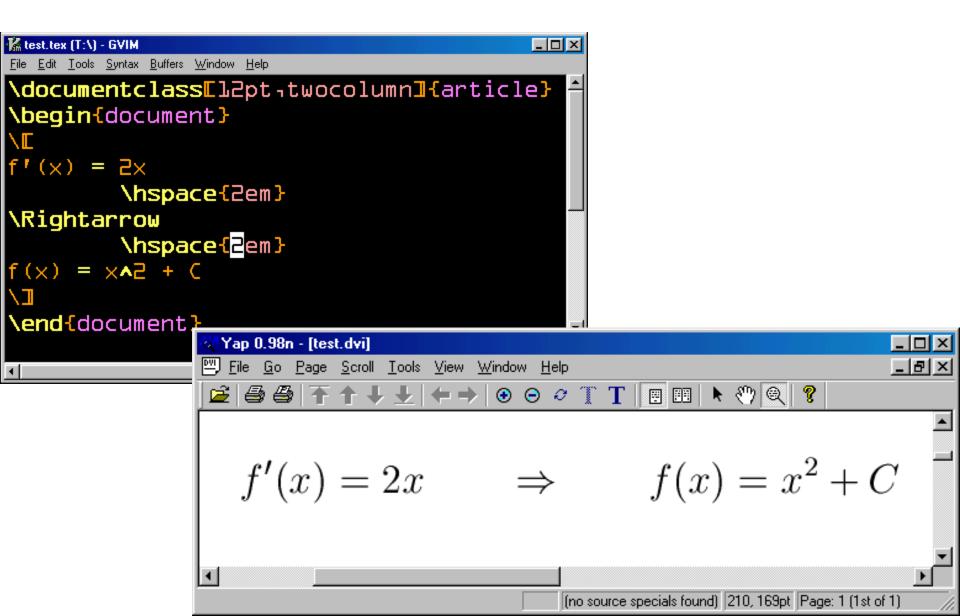
fractions



square-roots

🕻 test.tex (T:\) - GVIM		
<u> Eile E</u> dit <u>T</u> ools <u>S</u> yntax <u>B</u> uffers <u>W</u> inde	ow <u>H</u> elp	
\ <mark>docume</mark> ntclass <mark></mark> document: \⊑	L2pt₁twocolumn]{article}∸ }	
\sqrt[]]{a	a+b}{c-d}}	
<pre>\end{document}</pre>		
	-첫/Yap 0.98n - [test.dvi]	- D ×
•	🖭 <u>F</u> ile <u>G</u> o <u>P</u> age <u>S</u> croll <u>T</u> ools <u>V</u> iew <u>W</u> indow <u>H</u> elp	_ 뭔 ×
	🖻 🗇 🕂 ↑ ↓ ± (← →) ⊙ ⊖ ở î î î 🖪 🖽 🕨 🍳 💡	
		-
	$\sqrt[3]{\frac{a+b}{a-d}}$	
	$\mathbf{v} \ c - a$	
	(no source specials found) [206, 142pt [Page: 1 (1	Ist of 1)

insert your own spacing



use 'array' to make tables & matrices

The second second		
K test.tex (T:\) - GVIM File Edit Tools Syntax Buff	ers Window Help	
	ss[l2pt twocolumn]{article}	
docum		
\begin {array		
7 % 55 % 3 /		
99 & 5 & × ^ a		
\end {array}		
documen	it}	
	💱 Yap 0.98n - [test.dvi]	- 🗆 ×
	<u>F</u> ile <u>G</u> o <u>P</u> age <u>S</u> croll <u>T</u> ools <u>V</u> iew <u>W</u> indow <u>H</u> elp	_ 8 ×
ſ		
	1 22 2	
	1 22 3	_
	99 5 x^2	
	•	
L		
	(no source specials found) 210, 169pt Page: 1 (1st of	U //i

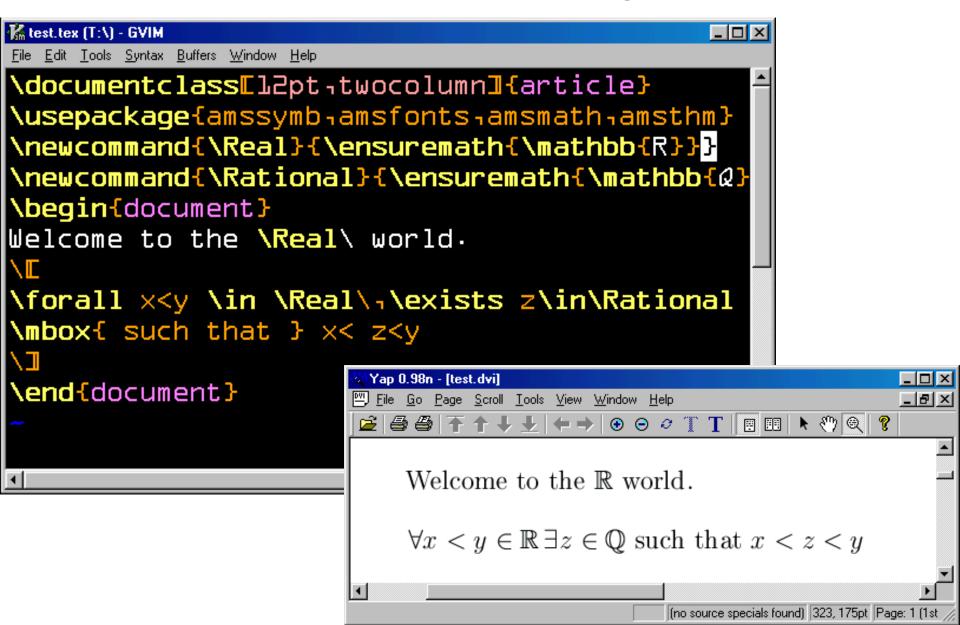
adding lines & borders

🕻 test.tex (T:\) - GVIM	
<u>File E</u> dit <u>T</u> ools <u>Sy</u> ntax <u>B</u> uffers <u>W</u> indow <u>H</u> elp	
<pre>\documentclassEl2pt twocolumn3{arti</pre>	cle}
<pre>\begin{document}</pre>	
\E	
\begin {array}{ c 1 <mark>r</mark> }	
\hline	
1 & 22 & 3 \\	
\hline	
99 & 5 & ×A2	
\end {array}	
Yap 0.98n - [test.dvi]	
▲ <u>Eile Go Page Scroll Tools View Window</u>	
🚅 🚭 🚭 千 ↑ ↓ ± ← → ④	⊖ ~ T T 🖪 🖽 🕨 🍳 🧣
1	22 3
99	$5 x^2$
<	
	[no source specials found] [221, 153pt [Page: 1 (1st of 1)]

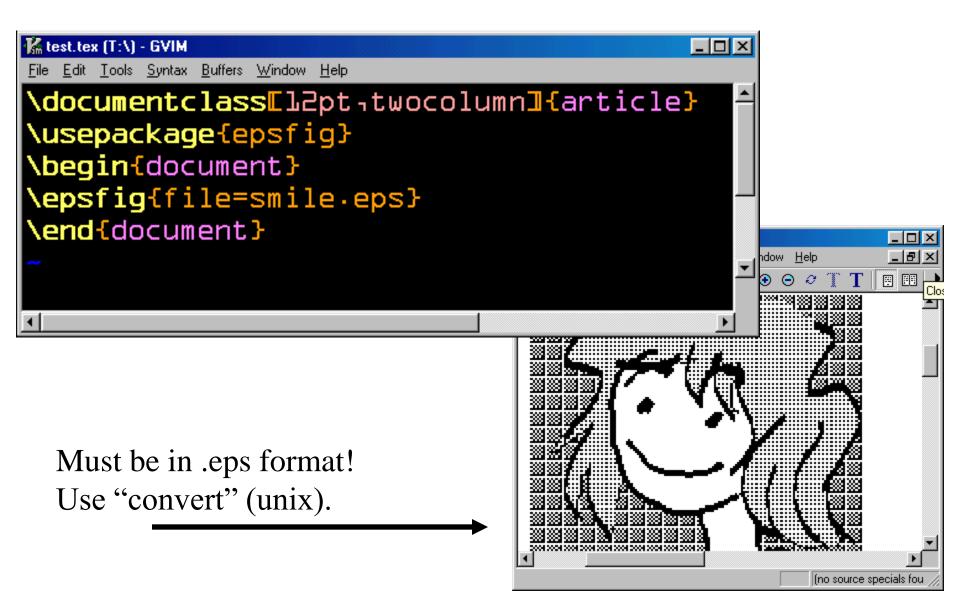
grouping with parentheses

🌃 test.tex (T:\) - GVIM		
<u>File Edit T</u> ools <u>S</u> yntax <u>B</u> uffers <u>W</u> indow <u>H</u> elp		
\documentclass[]2pt-	twocolumn <mark>]{</mark> article} 📥	
\begin{document}		
\left E		
<pre>\left()</pre>		
\begin {array}{ccc}		
7 % 55 % 3 //		
99 & 5 & × ^ 2		
\end {array}		
\right)		
+\frac{l}{2}\right		
	्य Yap 0.98n - [test.dvi]	
	Image: Price of the second	
•		
	$\left \left(\begin{array}{rrr} 1 & 22 & 3 \\ 99 & 5 & x^2 \end{array} \right) + \frac{1}{2} \right $	
	$ 99 5 x^2 2 $	
		-
	(no source specials found) [217, 155pt [Page: 1 (1	Ist of 1)

There and back again.



getting visual: images



drawing your own pictures

