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1. About this package

grid.sty is a \LaTeX package which helps to enable grid typesetting in double column documents. Grid typesetting is a difficult task in \LaTeX , this is only a humble attempt to help users to achieve it in a limited way. This document has been typeset making use of grid.sty. The package needs a lot of improvements, this is only a beginning.

1.1. Package options Three options were added in the package:

fontsize sets the font size of the file. Default value is $10pt$.

baseline sets the baseline skip of the document. Default value is $12pt$.

lines sets the textheight of the document, which is calculated by multiplying number of lines and baselineskip. The default value is 40 .

1.2. Package specific coding: Equations should be put inside `\begin{gridenv} ... \end{gridenv}` environment. For example:

```
\begin{gridenv}
\begin{equation}
\ip{\Gamma}{\psi'} = x'' + y^{2} + z_{i}^{n}
\end{equation}
\end{gridenv}
```

$$(\Gamma, \psi') = x'' + y^2 + z_i^n \quad (1)$$

1.3. Limitations of the package

- Enunciations (theorem, lemma etc) were not added in the package.
- Optional argument of floats (positioning of floats) are not currently supported.
- Footnotes are not aligned correctly.

These are some of the limitations of the package. The user manual ends here.

The following text is taken from an example of \LaTeX . This can be considered as an example input file for our purpose. Playing with this file by changing the options and looking at the the generated output, you can get a grip of how to produce a simple document of your own.

2. Ordinary Text

The ends of words and sentences are marked by spaces. It doesn't matter how many spaces you type; one is as good as 100. The end of a line counts as a space.

One or more blank lines denote the end of a



Figure 1: Test figure.

| | | |
|------------|---------------|-----------|
| First | Second | Third |
| Left Start | Center Middle | Right End |

Table 1: Test table.

paragraph.

Since any number of consecutive spaces are treated like a single one, the formatting of the input file makes no difference to \LaTeX , but it makes a difference to you. When you use \LaTeX , making your input file as easy to read as possible will be a great help as you write your document and when you change it. This sample file shows how you can add comments to your own input file.

Because printing is different from typewriting, there are a number of things that you have to do differently when preparing an input file than if you were just typing the document directly. Quotation marks like “this” have to be handled specially, as do quotes within quotes: “‘this’ is what I just wrote, not ‘that’”.

Dashes come in three sizes: an intra-word dash, a medium dash for number ranges like 1–2, and a punctuation dash—like this.

A sentence-ending space should be larger than the space between words within a sentence. You sometimes have to type special commands in conjunction with punctuation characters to get this right, as in the

$$(\Gamma, \psi') = x'' + y^2 + z_i^n \quad (2)$$

following sentence. Gnats, gnus, etc. all begin with G. You should check the spaces after periods when reading your output to make sure you haven't forgotten any special cases. Generating an ellipsis ... with the right spacing around the periods requires a special command.

$$\frac{\sum_Y^X}{\prod_C} = x'' + y^2 + z_i^n \quad (3)$$

\LaTeX interprets some common characters as

| | | |
|------------|---------------|-----------|
| First | Second | Third |
| Left Start | Center Middle | Right End |

Table 2: Test table.



Figure 2: Test figure.

commands, so you must type special commands to generate them. These characters include the following: \$ & % # { and }.

$$(\Gamma, \psi') = x'' + y^2 + z_i^n \quad (4)$$

In printing, text is usually emphasized with an *italic* type style.

A long segment of text can also be emphasized in this way. Text within such a segment can be given additional emphasis.

It is sometimes necessary to prevent L^AT_EX from breaking a line where it might otherwise do so. This may be at a space, as between the “Mr.” and “Jones” in “Mr. Jones”, or within a word—especially when the word is a symbol like *itemnum* that makes little sense when hyphenated across lines.

L^AT_EX is good at typesetting mathematical formulas like $x - 3y + z = 7$ or $a_1 > x^{2n} + y^{2n} > x'$ or $(A, B) = \sum_i a_i b_i$. The spaces you type in a formula are ignored. Remember that a letter like x is a formula when it denotes a mathematical symbol, and it should be typed as one.

3. Displayed Text

Text is displayed by indenting it from the left margin. Quotations are commonly displayed. There are short quotations

This is a short a quotation. It consists of a single paragraph of text. See how it is formatted.

and longer ones.

This is a longer quotation. It consists of two paragraphs of text, neither of which are particularly interesting.

This is the second paragraph of the quotation. It is just as dull as the first paragraph.

Another frequently-displayed structure is a list. The following is an example of an *itemized* list.

- This is the first item of an itemized list. Each item in the list is marked with a “tick”. You don’t have to worry about what kind of tick mark is used.
- This is the second item of the list. It contains another list nested inside it. The inner list is an *enumerated* list.

1. This is the first item of an enumerated list that is nested within the itemized list.

2. This is the second item of the inner list. L^AT_EX allows you to nest lists deeper than you really should.

This is the rest of the second item of the outer list. It is no more interesting than any other part of the item.

- This is the third item of the list.

You can even display poetry.

There is an environment for verse
Whose features some poets will curse.
For instead of making
Them do *all* line breaking,
It allows them to put too many words on
a line when they’d rather be forced to
be terse.

Mathematical formulas may also be displayed. A displayed formula is one-line long; multiline

formulas require special formatting instructions.

$$(\Gamma, \psi') = x'' + y^2 + z_i^n$$

Don't start a paragraph with a displayed equation, nor make one a paragraph by itself.

4. Some bizarre text

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetur id, vulputate a, magna. Donec vehicula augue eu neque. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Mauris ut leo. Cras viverra metus rhoncus sem. Nulla et lectus vestibulum urna fringilla ultrices. Phasellus eu tellus sit amet tortor gravida placerat. Integer sapien est, iaculis in, pretium quis, viverra ac, nunc. Praesent eget sem vel leo ultrices bibendum. Aenean faucibus. Morbi dolor nulla, malesuada eu, pulvinar at, mollis ac, nulla. Curabitur auctor semper nulla. Donec varius orci eget risus. Duis nibh mi, congue eu, accumsan eleifend, sagittis quis, diam. Duis eget orci sit amet orci dignissim rutrum.

$$\frac{\sum_Y^X}{\prod_C} = x'' + y^2 + z_i^n \quad (5)$$

$$\frac{\int_\Sigma}{\int_p rod'} = x'' + y^2 + z_i^n \quad (6)$$

$$(\Gamma, \psi') = x'' + y^2 + z_i^n \quad (7)$$

Nam dui ligula, fringilla a, euismod sodales, sollicitudin vel, wisi. Morbi auctor lorem non justo. Nam lacus libero, pretium at, lobortis vitae, ultricies et, tellus. Donec aliquet, tortor sed accumsan bibendum, erat ligula aliquet magna, vitae ornare odio metus a mi. Morbi ac orci et nisl hendrerit mollis. Suspendisse ut massa. Cras nec ante. Pellentesque a nulla. Cum sociis natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. Aliquam tincidunt urna. Nulla ullamcorper vestibulum turpis. Pellentesque cursus luctus mauris.

$$(\Gamma, \psi') = x'' + y^2 + z_i^n \quad (8)$$

Nulla malesuada porttitor diam. Donec felis erat, congue non, volutpat at, tincidunt tristique,

libero. Vivamus viverra fermentum felis. Donec nonummy pellentesque ante. Phasellus adipiscing semper elit. Proin fermentum massa ac quam. Sed diam turpis, molestie vitae, placerat a, molestie nec, leo. Maecenas lacinia. Nam ipsum ligula, eleifend at, accumsan nec, suscipit a, ipsum. Morbi blandit ligula feugiat magna. Nunc eleifend consequat lorem. Sed lacinia nulla vitae enim. Pellentesque tincidunt purus vel magna. Integer non enim. Praesent euismod nunc eu purus. Donec bibendum quam in tellus. Nullam cursus pulvinar lectus. Donec et mi. Nam vulputate metus eu enim. Vestibulum pellentesque felis eu massa.

$$\frac{\sum_Y^X}{\prod_C} = x'' + y^2 + z_i^n \quad (9)$$

$$(\Gamma, \psi') = x'' + y^2 + z_i^n \quad (10)$$

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$$(\Gamma, \psi') = x'' + y^2 + z_i^n \quad (11)$$

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$$\frac{\sum_Y^X}{\prod_C} = x'' + y^2 + z_i^n \quad (12)$$

Suspendisse vitae elit. Aliquam arcu neque,

ornare in, ullamcorper quis, commodo eu, libero. Fusce sagittis erat at erat tristique mollis. Maecenas sapien libero, molestie et, lobortis in, sodales eget, dui. Morbi ultrices rutrum lorem. Nam elementum ullamcorper leo. Morbi dui. Aliquam sagittis. Nunc placerat. Pellentesque tristique sodales est. Maecenas imperdiet lacinia velit. Cras non urna. Morbi eros pede, suscipit ac, varius vel, egestas non, eros. Praesent malesuada, diam id pretium elementum, eros sem dictum tortor, vel consetetuer odio sem sed wisi.

$$\frac{\sum_Y^X}{\prod_C} = x'' + y^2 + z_i^n \quad (13)$$

(14)

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$$\frac{\int_\Sigma}{\int_p rod'} = x'' + y^2 + z_i^n \quad (15)$$

$$(\Gamma, \psi') = x'' + y^2 + z_i^n \quad (16)$$

$$\frac{\sum_Y^X}{\prod_C} = x'' + y^2 + z_i^n \quad (17)$$

$$\frac{\int_\Sigma}{\int_p rod'} = x'' + y^2 + z_i^n \quad (18)$$

$$(\Gamma, \psi') = x'' + y^2 + z_i^n \quad (19)$$

Nulla malesuada porttitor diam. Donec felis erat, congue non, volutpat at, tincidunt tristique, libero. Vivamus viverra fermentum felis. Donec nonummy pellentesque ante. Phasellus adipiscing semper elit. Proin fermentum massa ac quam. Sed diam turpis, molestie vitae, placerat a, molestie nec, leo. Maecenas lacinia. Nam ipsum ligula, eleifend at, accumsan nec, suscipit a, ipsum. Morbi blandit ligula feugiat magna. Nunc eleifend consequat lorem. Sed lacinia nulla vitae enim. Pellentesque tincidunt purus vel magna. Integer non enim. Praesent euismod nunc eu pu-

rus. Donec bibendum quam in tellus. Nullam cursus pulvinar lectus. Donec et mi. Nam vulputate metus eu enim. Vestibulum pellentesque felis eu massa.

$$(\Gamma, \psi') = x'' + y^2 + z_i^n \quad (20)$$

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$$\frac{\sum_Y^X}{\prod_C} = x'' + y^2 + z_i^n \quad (21)$$

$$\frac{\int_\Sigma}{\int_p rod'} = x'' + y^2 + z_i^n \quad (22)$$

(23)

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$$\frac{\sum_Y^X}{\prod_C} = x'' + y^2 + z_i^n \quad (24)$$

(25)

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Grid and L^AT_EX

Figure 3: Test figure.



Grid and L^AT_EX

Figure 4: Test figure.

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$$(\Gamma, \psi') = x'' + y^2 + z_i'' \quad (26)$$

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mauris. Nam arcu libero, nonummy eget, consectetur id, vulputate a, magna. Donec vehicula augue eu neque. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Mauris ut leo. Cras viverra metus rhoncus sem. Nulla et lectus vestibulum urna fringilla ultrices. Phasellus eu tellus sit amet tortor gravida placerat. Integer sapien est, iaculis in, pretium quis, viverra ac, nunc. Praesent eget sem vel leo ultrices bibendum. Aenean faucibus. Morbi dolor nulla, malesuada eu, pulvinar at, mollis ac, nulla. Curabitur auctor semper nulla. Donec varius orci eget risus. Duis nibh mi, congue eu, accumsan eleifend, sagittis quis, diam. Duis eget orci sit amet orci dignissim rutrum.

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Nulla malesuada porttitor diam. Donec felis erat, congue non, volutpat at, tincidunt tristique, libero. Vivamus viverra fermentum felis. Donec nonummy pellentesque ante. Phasellus adipiscing semper elit. Proin fermentum massa ac quam. Sed diam turpis, molestie vitae, placerat a, molestie nec, leo. Maecenas lacinia. Nam ipsum ligula, eleifend at, accumsan nec, suscipit a, ipsum. Morbi blandit ligula feugiat magna. Nunc eleifend consequat lorem. Sed lacinia nulla vitae enim. Pellentesque tincidunt purus vel magna. Integer non enim. Praesent euismod nunc eu pu-

grid.sty — Manual and Examples

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