Efficient Local Search for Nonlinear Real Arithmetic

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Latex and Beamer

LaTeX is a high-quality typesetting system; it includes features designed for the production of technical and scientific documentation.

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Latex and Beamer

LaTeX is a high-quality typesetting system; it includes features designed for the production of technical and scientific documentation.

Beamer is a LaTeX class to create powerful, flexible and nice-looking presentations and slides.

The beamer class is focussed on producing (on-screen) presentations, along with support material such as handouts and speaker notes.

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Block and Alert

Pythagorean theorem

$$a^2 + b^2 = c^2$$

where c represents the length of the hypotenuse and a and b the lengths of the triangle's other two sides.

Remark

- the environment above is **block**
- the environment here is alertblock

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Proof

Pythagorean theorem

$$a^2 + b^2 = c^2$$

Proof.

$$3^2 + 4^2 = 5^2$$
$$5^2 + 12^2 = 13^2$$

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Algorithm

```
Data: this text

Result: how to write algorithm with LATEX2e initialization;

while not at end of this document do read current;

if understand then

go to next section;
current section becomes this one;
else
go back to the beginning of current section;
end

end

Algorithm 1: How to write algorithms (copied from here)
```

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An Algorithm For Finding Primes Numbers.

Note the use of \alert

More

More environments such as

- Definition
- lemma
- corollary
- example

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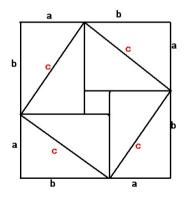
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Minipage



- 1 item
- 2 another
- 3 more
 - first
 - second
 - third

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Columns

This is a text in first column.

$$E = mc^2$$

- First item
- Second item

first block

columns achieves splitting the screen

second block

stack block in columns

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Create Tables

first	second	third
1	2	3
4	5	6
7	8	9

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Equation1

A matrix in text must be set smaller: $\begin{pmatrix} a & b \\ c & d \end{pmatrix}$ to not increase leading in a portion of text.

$$f(n) = \begin{cases} n/2 & \text{if } n \text{ is even} \\ -(n+1)/2 & \text{if } n \text{ is odd} \end{cases}$$

 $50apples \times 100apples = lots of apples^2$

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Equation2

$$\sum_{\substack{0 < i < m \\ 0 < j < n}} P(i, j) = \int_{a}^{b} \prod P(i, j)$$

$$P\left(A = 2 \left| \frac{A^{2}}{B} > 4 \right.\right)$$

$$(a), [b], \{c\}, |d|, ||e||, \langle f \rangle, \lfloor g \rfloor, \lceil h \rceil, \lceil i \rceil$$

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Equation3

$$Q(\alpha) = \alpha_i \alpha_j y_i y_j (x_i \cdot x_j)$$

$$Q(\alpha) = \alpha^i \alpha^j y^{(i)} y^{(j)} (x^i \cdot x^j)$$

$$\Gamma = \beta + \alpha + \gamma + \rho$$

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End

The last page.

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