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## 1 Hello Anywhere

u can write tex  
from anywhere

### 1.1 MikTeX

MikTeX on Windows

#### 1.1.1 CTeX

CTex integrate MikTeX

**Editor** TeXworks

**2 windows** one for edit one for review

### 1.2 Emacs

Emacs on Linux

#### 1.2.1 Emacs-LaTeX

use Emacs-LaTeX inside

## 2 math

The Newton's second law is  $F=ma$ .

**in** The Newton's second law is

$$F = ma$$

.  
The Newton's second law is

$$F = ma$$

. x  
y  
z

**in** Greek Letters  $\eta$  and  $\mu$ .

Fraction  $\frac{a}{b}$

Power  $a^b$

Subscript  $a_b$

Derivate  $\frac{\partial y}{\partial t}$

Vector  $\vec{n}$

Bold **n**

To time differential  $\dot{F}$

Matrix (lcr here means left , center or right for each column)

$$\left[ \begin{array}{cccc} a1 & b22 & c333 & mrrr \\ d444 & e55555 & f6 & Po \end{array} \right]$$

Equations(here & is the symbol for aligning different rows)

$$a + b = c \tag{1}$$

$$d = e + f + g \tag{2}$$

$$\begin{cases} a + b = c \\ d = e + f + g \end{cases}$$