# Contents

# 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

   LaTeX2e

   # \$ % Ô & _ { } Ã
   \\
   Today is January 5, 2017
   A

## 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)

$$\begin{bmatrix} a1 & b22 & c333 & mrrr \\ d444 & e55555 & f6 & Po \end{bmatrix}$$

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

$$a + b = c \tag{1}$$
$$d = e + f + g \tag{2}$$

$$\begin{cases} a + b = c & I \\ d = e + f + g & II \\ h = i + j & III \end{cases}$$

| a1 | b21 |
|----|-----|
| c321 | d54321 |

| a | b |
|---|---|
| c | d |

| a | b |
|---|---|
| c | d |

| 1 | 0 | 0 |
|---|---|---|
| 0 | 2 | 3 |
| 0 | 1 | 1 |

| Q |