LateX document

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Contents

This gives automatic date

1 Section 1

1.1 greek letters

$$\pi$$

$$\alpha$$

$$A = \pi r^2$$

1.2 trig functions

$$y = \sin x$$

$$y = sin(x)$$

1.3 logaritms

$$\log_5 x$$

$$\ln x$$

1.4 fractions

$$\frac{1}{2}$$

There is $\frac{2}{3}$ of the water in glass. You can also make this fraction bigger using displaystyle $\dfrac{x}{x^2 - 12x + 3}$ as you can see.

1.5 square roots

$$\sqrt{2}$$

$$\sqrt[3]{8} = 2$$

$$\sqrt[3]{3x + 123 + \sin x}$$

$$\sqrt{\frac{1}{\sqrt{x}}}$$

2 Section 2

2.1 brackets

$$(x+1)$$

$$3[2+(x+1)]$$

$$3x\left(\frac{2}{4}\right)$$

$$3x\left[2+\frac{2}{3}\right]$$

curly brackets:

$$\{a,b,c\}$$

$$3x\left\{2+\frac{2}{3}\right\}$$

$$\left\{x^2\right.$$

2.2 Signs

Dollar symbol: $12.55

Absolute value:

$$|x|$$

$$\left|\frac{x}{x-1}\right|$$

$$\left.\frac{dy}{dx}\right|_{x=1}$$

2.3 Tables

x	1	2	3	4	5
$f(x)$	10	12	13	14	15

$$5x^2 - 9 = x + 3 \tag{1}$$
$$4x^2 = 12 \tag{2}$$
$$x^3 = 3 \tag{3}$$
$$x \approx \pm 1.732 \tag{4}$$

3

Hiding equation number:

$$4x^2 = 12$$
$$x^3 = 3$$

$$5x^2 - 9 = x + 3 \tag{5}$$

2.4 Lists

2.4.1 Enumeraterd Lists

1. penicl
2. calculator
3. ruler
4. paper
5. notebook

    (a) red notebook
        i. pages 1-3
            A. page 1
    (b) blue notebook

2.4.2 Itemized list

- pencl
- calculator
- ruler
- paper
- notebook

    - red notebook
        * pages 1-3
            · page 1
    - blue notebook

item1 : penicl

item2 : calculator

item3 ruler

1. paper
2. notebook

3   Text formating

You can make text *italic* or make it **bold face** or SMALL CAPS. Also there is `typewriter`, for example for urls `https://google.com`

<div align="center">This text is center</div>

This is left-justified

<div align="right">This is right-justified</div>

4   Graphic

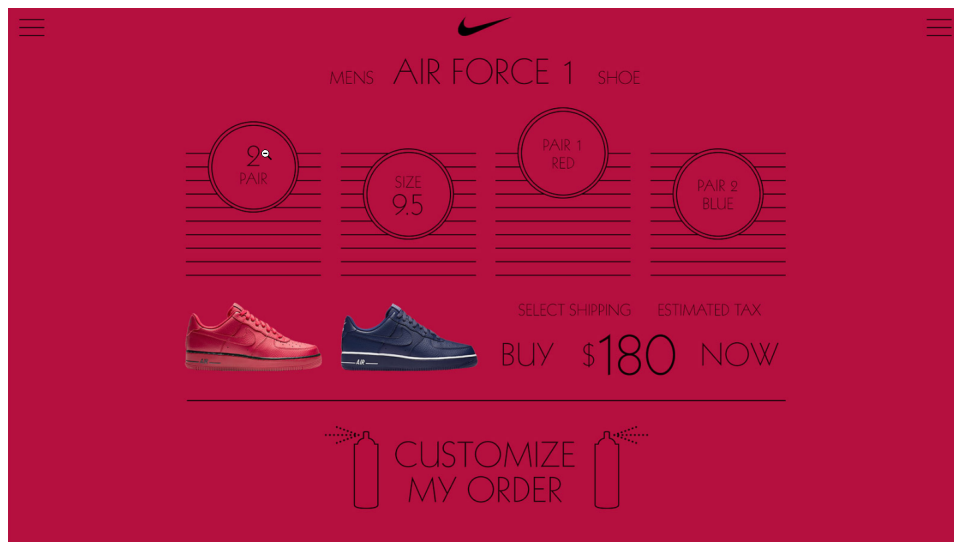To include graphics, please remember about inserting package **graphicx**.

Figure 1: Nike shoes customization

But remember that images must be as .png, .jpg, .gif or .pdf

5   Hyper Links

5.1   \hyperref

We use figure 1 to show the promotions and customization of nike shoes. We use asterisk here to avoid nested hyperlinks. We receive the number of figure that ws labeled.

Also using labels we can directly link to specific point in document. This picture shows customization of shoes.

In Section 2 we have shown how to use brackets.

5.2   \url

This function just makes clicakble urls

`https://en.wikibooks.org/wiki/LaTeX/Hyperlinks`

5.3   \href

This function shows our description of url but when clicked on it, the web browser points to given url.

Wikibooks home