

Org mode

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1 Code example

```
1  #include <iostream>
2
3  int main() {
4      std::cout << "Hello World!" << std::endl; //      (sc)
5      return 0
6  }
```

Tes reference sc
Inline code: `cmake ..`
Using codeblocks result:

```
1  return "Test"
```

```
1  return "Wow it's: {}".format(s)
```

2 \LaTeX examples

$$e^{ix} = \cos x + i \sin x$$

$$\begin{vmatrix} 1 & 1 \\ 1 & 0 \end{vmatrix}^2 = \begin{vmatrix} 2 & 1 \\ 1 & 1 \end{vmatrix}$$

Test latex classes: \mathbb{R}

Теорема 2.1. Some cool theorem

Доказательство. Some cool proof of some cool theorem

□

Теорема 2.2. Another cool theorem

3 Quote example

Great clouds overhead Tiny black birds rise and fall Snow covers Emacs
—AlexSchroeder

4 Dot graph

```
1 digraph {
2   a -> b [color=blue, label="test"];
3   b -> c;
4   b -> d;
5   d -> e;
6   d -> f;
7 }
```

5 Gnuplot example

```
1 reset
2
3 set title "Putting it All Together"
4
5 set xlabel "X"
6 set xrange [-8:8]
7 set xtics -8,2,8
8
9
10 set ylabel "Y"
11 set yrange [-20:70]
12 set ytics -20,10,70
13
14 f(x) = x**2
15 g(x) = x**3
16 h(x) = 10*sqrt(abs(x))
17
18 plot f(x) w lp lw 1, g(x) w p lw 2, h(x) w l lw 3
```

6 Python example

```
1 import matplotlib
2 matplotlib.use('Agg')
3 import matplotlib.pyplot as plt
4 filename = '13_2.png'
5 plt.plot([0, 1, 1, 2], [1, 1, 0, 0])
6 plt.ylabel("$hash(s[i : k]) = hash(j : k)$")
7 plt.xlabel("$s_i$")
8 plt.yticks([0, 1])
9 plt.xticks([0, 1, 2])
10 plt.savefig(filename)
11 return filename
```

7 Python & Gnuplot example

```
1 import math
2 import numpy as np
```

```
3 y = lambda x: x**2
4 X = list(np.arange(-10, 10, 0.25))
5 Y = []
6 for x in X:
7     Y += [y(x)]
8 return list(zip(X, Y))
```

```
1 plot data
```

```
1 return data[1]
```
