

First Document

EricLin

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```
int main(){
    printf("hello,    world");
    return 0;
}

#include<iostream>
#define Trace(m) cout<<#m"<<(m)<<endl;
using namespace std;
//this is a basic cpp template
/*
    * output: print hello world.
    latexbegin{
        This is embeded latex code.
        End!
    }latexend
    */
int main(){
    cout<<"Hello        World."<<endl;
    return 0;
}
```

New method:

```
1  #include<iostream>
2  #define Trace(m) cout<<#m"<<(m)<<endl;
3  using namespace std;
4  //this is a basic cpp template
5  /*
6   * output: print hello world.
7   latexbegin{
8       This is embeded latex code.
9       End!
10 }latexend
11 */
12 int main(){
13     cout<<"Hello      World."<<endl;
14     return 0;
15 }
```

Algorithm 1: below the code

I'm refering to the Listing 2, end.

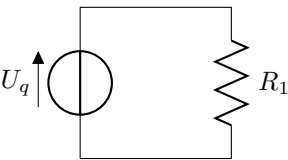
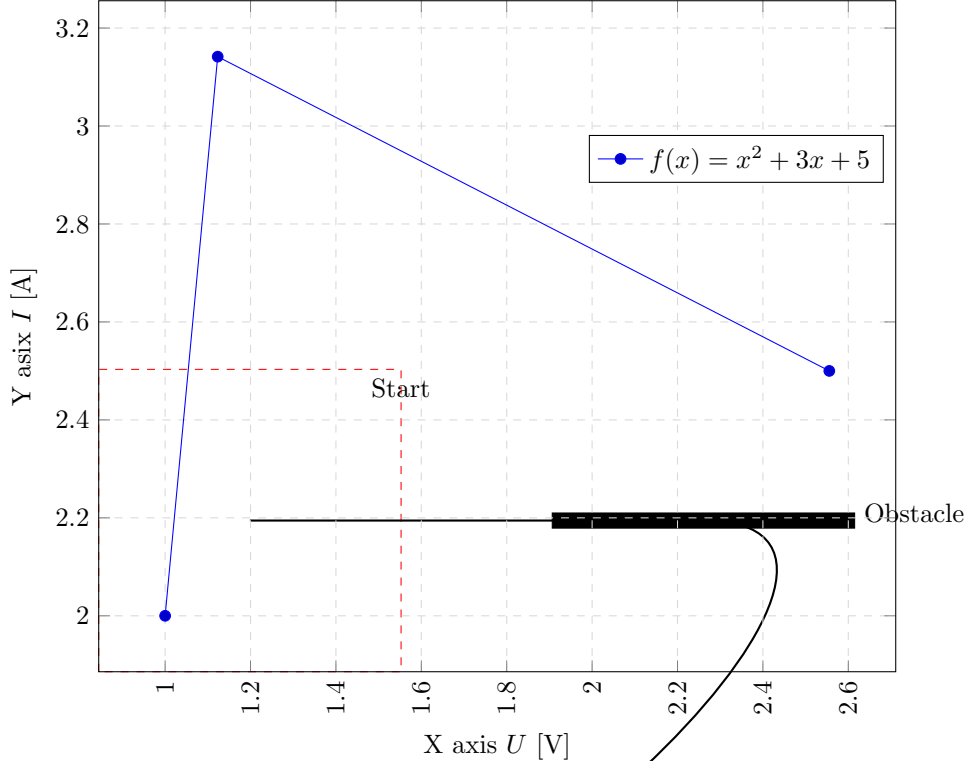


Figure 1: My autogenerated plot.



Point of interest

fuckyou hello;F5i

Table 1: Autogenerated table from .csv file.

| <i>Value1</i> | <i>Value2</i> | <i>Value3</i> |
|---------------|---------------|---------------|
| A | V | T |
| 1 | 2 | 4 |
| 1.12 | 3.14 | 34 |
| 2.56 | 2.50 | 23 |

this is footnote¹. this is footnote2². i'm referring to previous footnote2. i'm referring to first footnote1.

Table 2: My Table

| | | | | |
|---|--|---|--|---|
| 1 | | 2 | | 3 |
| a | | b | | c |

Table 3: mytable2

| Some | actual | content |
|------------|--------|------------------|
| prettifies | the | table |
| as | wel | as |
| using | the | booktabs package |

¹Hello footnote
²Hello footnote

Contents

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| 1.1 | section2 | 3 |

Figure 2: dummy figure

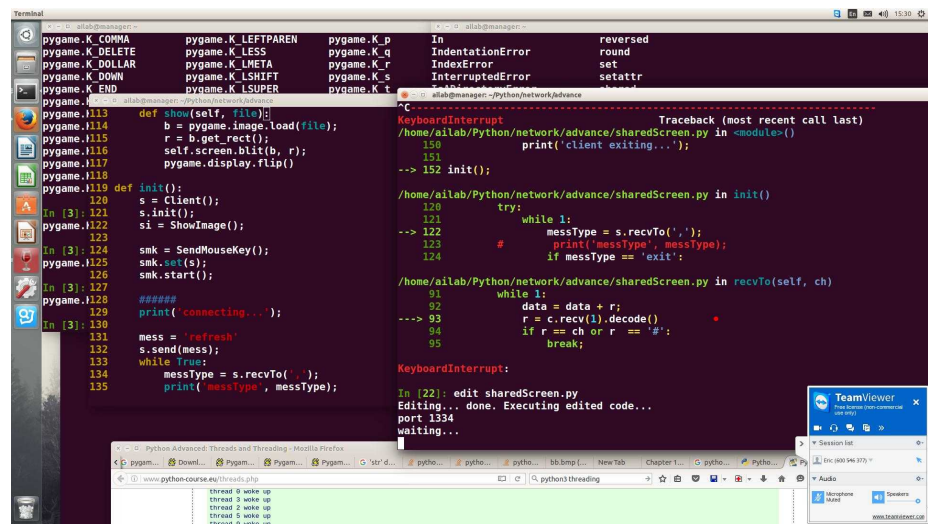


Figure 3: A tmp jpg what?

Figure 4 show a tmp jpg.

Figure 3 show a tmp jpg.

$$f(x) = x^2y = ax^2 + bx + c$$

$$1 + 2 = 3$$

$$1 + 2 = 3 \tag{1}$$

$$1 = 3 - 2 \tag{2}$$

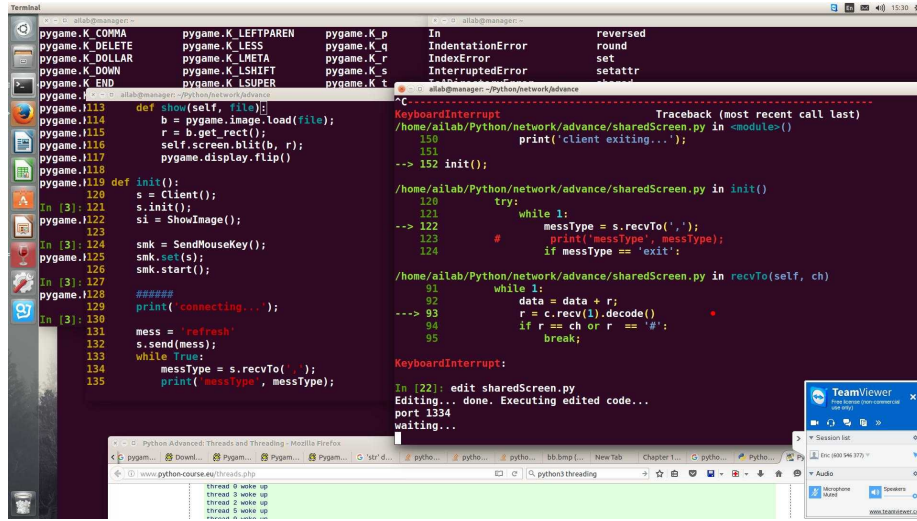


Figure 4: A tmp.jpg

$$f(x) = x^2 \quad (3)$$

$$g(x) = \frac{1}{x} \quad (4)$$

$$F(x) = \int_b^a \frac{1}{3} x^3 \quad (5)$$

$$IntF(x) = \int_a^b \frac{1}{3} x^3 \quad (6)$$

$$ClosedIntegral(x) = \oint_D F ds \quad (7)$$

$$c(x) = \frac{f(x)}{\frac{4}{3}} \quad (8)$$

$$\left(d(x) = \frac{1}{\sqrt{x}} \right) \quad (9)$$

$$\begin{bmatrix} 1 & 0 & 3 \\ 1 & 0 & 3 \\ 2 & 4 & \end{bmatrix} \quad (10)$$

$$\lambda^2 \alpha \beta \theta \quad (11)$$

adfadfadf
zverqwerqewraf

The formula is $f(x) = x^2$, for example.

1 section1

Hello World!

adf adf

afd a f

1.1 section2

sub section

new paragraph some text. next line

new hello New method:

```
1  #include<iostream>
2  #define Trace(m) cout<<#m"<<(m)<<endl;
3  using namespace std;
4  //this is a basic cpp template
5  /*
6    * output: print hello world.
7  latexbegin{
8        This is embeded latex code.
9        End!
10 }latexend
11 */
12 int main(){
13     cout<<"Hello      World."<<endl;
14     return 0;
15 }
```

Algorithm 2: below the code

Table 4: Dummy table

Table 5: Dummy2 table

hello rnadom citation [1] bibtex

List of Figures

| | | |
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| 1 | My autogenerated plot. | |
| 2 | dummy figure | 1 |
| 3 | A tmp jpg what? | 1 |
| 4 | A tmp jpg | 2 |

List of Tables

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| 1 | Autogenerated table from .csv file. | |
| 2 | My Table | |
| 3 | mytable2 | |
| 4 | Dummy table | 5 |
| 5 | Dummy2 table | 5 |

List of Algorithms

| | | |
|---|--------------------------|---|
| 1 | below the code | |
| 2 | below the code | 4 |

biblatex references:

bibtex references:

References

- [1] J. Doe, *The Book without Title*. Dummy Publisher, 2100.