First LaTeX Document

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1 Introduction

LaTeX is a very powerful tool to create documents or scientific papers. A good introduction tutorial can be found here — Overleaf doc

2 Once upon a time

Once upon a time, there were an Hello World...

3 Marvels incoming

Hello World...

4 Code time

Here is some typical Python code.

```python
    # Program to display the Fibonacci sequence up to n-th term

    nterms = int(input("How many terms? "))

    # first two terms
    n1, n2 = 0, 1
    count = 0

    # check if the number of terms is valid
    if nterms <= 0:
    print("Please enter a positive integer")
    elif nterms == 1:
    print("Fibonacci sequence upto",nterms,":")
    print(n1)
    else:
    print("Fibonacci sequence:")
    while count < nterms:
        print(n1)
        nth = n1 + n2
        # update values
        n1 = n2
        n2 = nth
        count += 1

```

Listing 1: Python example

```
(base) onyr@aezyr:~/Documents/code/python/python_intro$ python3
fibonacci_sequence.py
How many terms? 10
Fibonacci sequence:
0
1
1
2
3
5
8
13
21
34

```

Listing 2: Python example output

And here is some from a file

```c
#include <stdio.h>

int main() {
   int year;
   printf("Enter a year: ");
   scanf("%d", &year);

   // leap year if perfectly divisible by 400
   if (year % 400 == 0) {
      printf("%d is a leap year.\r\n", year);
   }
   // not a leap year if divisible by 100
   // but not divisible by 400
   else if (year % 100 == 0) {
      printf("%d is not a leap year.\r\n", year);
   }
   // leap year if not divisible by 100
   // but divisible by 4
   else if (year % 4 == 0) {
      printf("%d is a leap year.\r\n", year);
   }
   // all other years are not leap years
   else {
      printf("%d is not a leap year.\r\n", year);
   }

   return 0;
}
```

Listing 3: Python example output