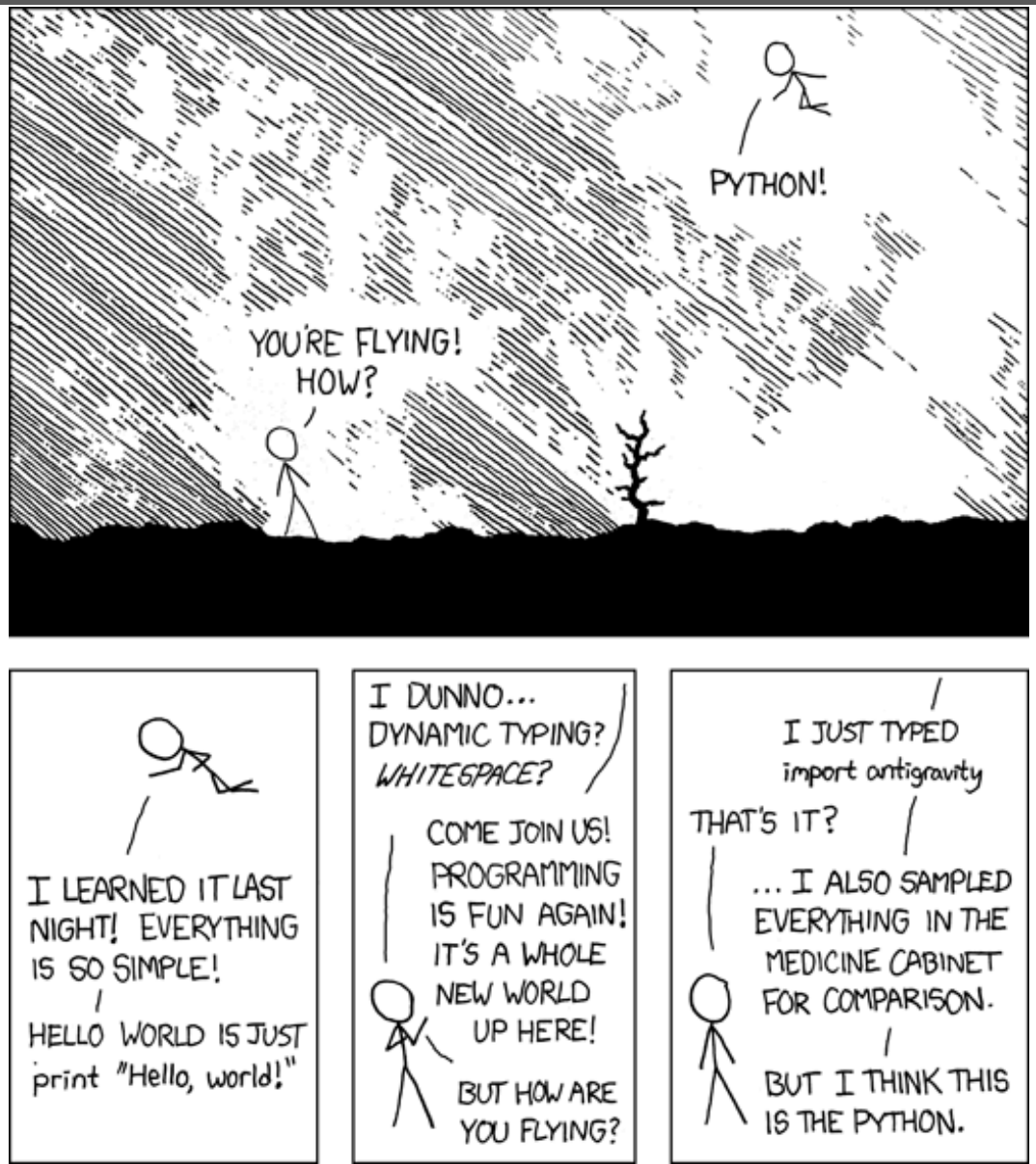
The single most important skill for a computer scientist [engineer] is problem solving. Problem solving means the ability to formulate problems, think creatively about solutions, and express a solution clearly and accurately. As it turns out, the process of learning to program is an excellent opportunity to practice problem-solving skills.

– From “Think Python” by Allen Downey

Python

https://xkcd.com/353/



Hello World

- Python

```
print(“Hello world”)
```

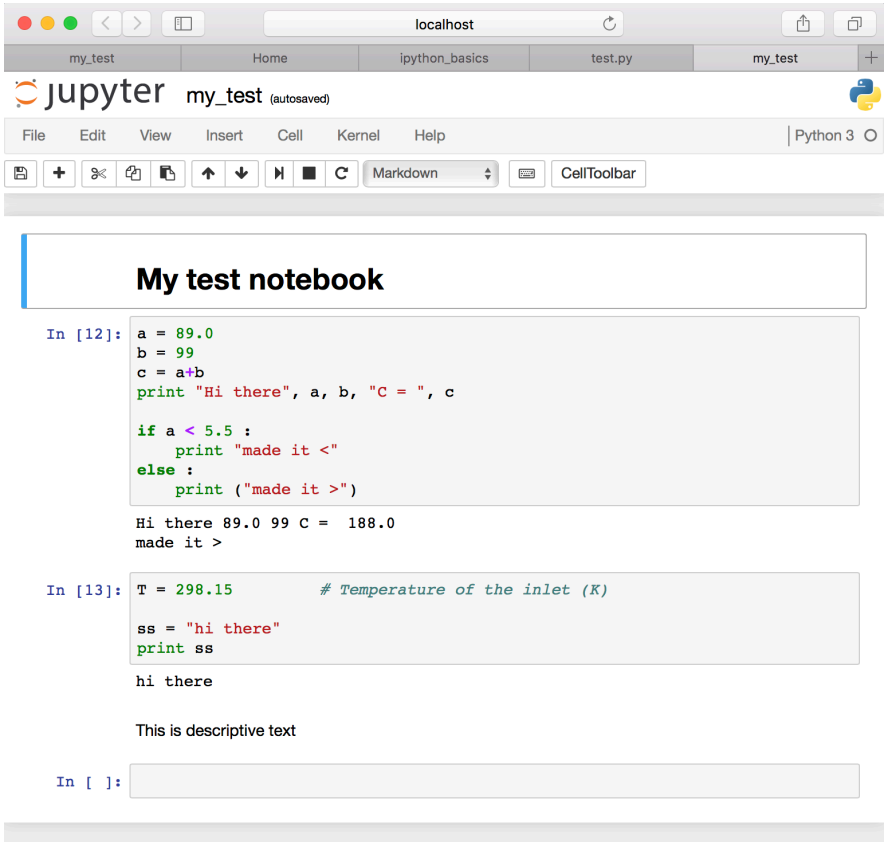
- C++

```
#include <iostream>
using namespace std;

int main(){
    cout << ”Hello world\n”;
    return 0;
}
```

Programing

- Environment
- Syntax
- Variables
- Arrays
- Loops
- Conditionals
- Functions
- Classes
- Etc.



Roadmap…

- Schedule
- Scientific Python Summary