

Why Functional Programming?

Why avoid objects and side effects?

Formal Provability Line-by-line invariants

Modularity Encourages small independent functions

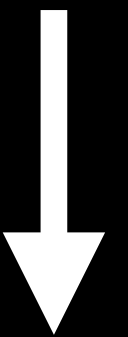
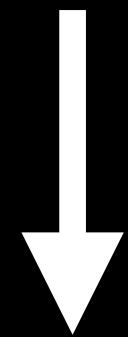
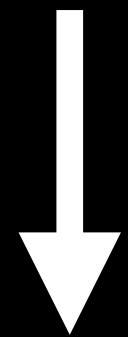
Composability Arrange existing functions for new goals

Easy Debugging Behavior depends only on input

Let's Get Started!

```
[len(s) for s in languages]
```

```
["python", "perl", "java", "c++"]
```



```
map(len, languages)
```



```
< 6 , 4 , 4 , 3 >
```