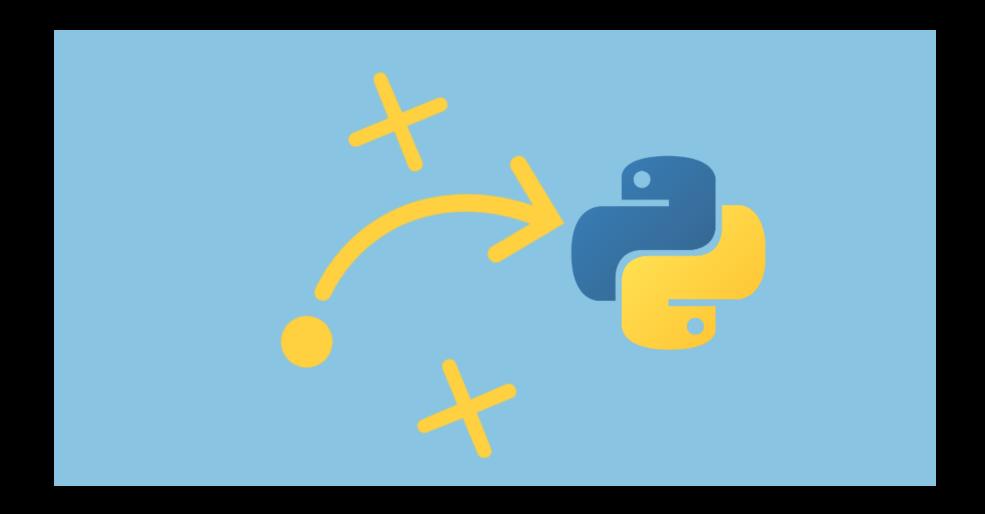
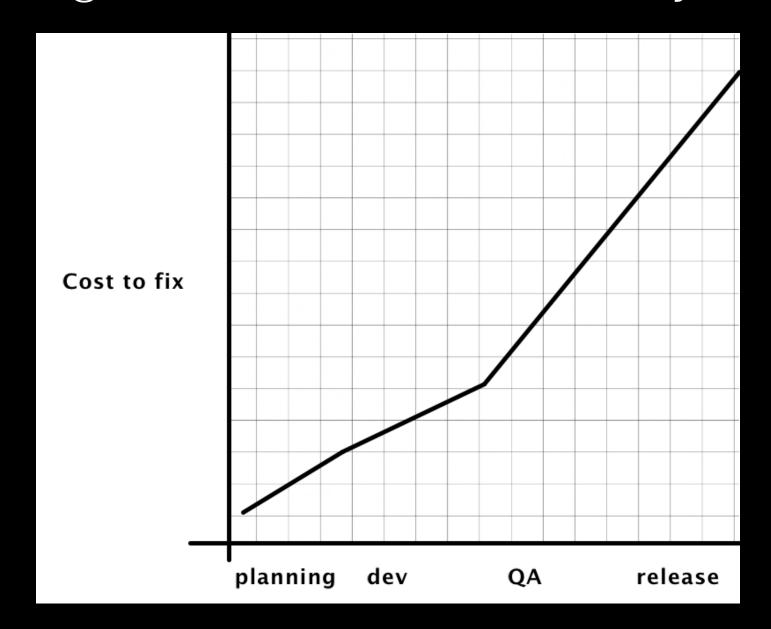
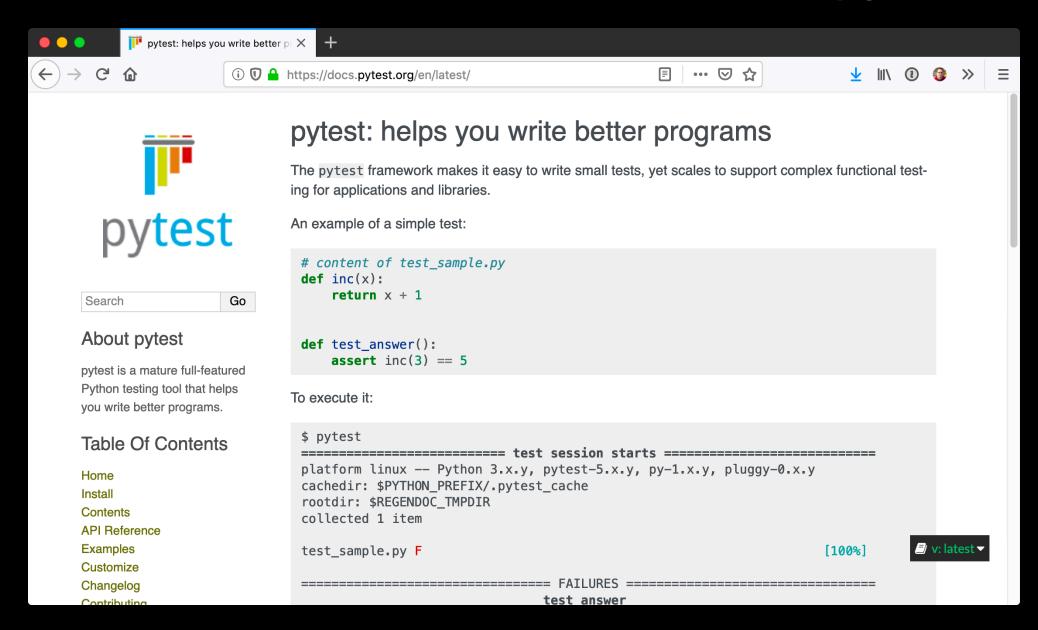
#### Testing



#### Testing lowers overall cost of systems



#### Python has a built-in version, but pytest



### A basic pytest test

Name starts with test\_ has 'raw' assert statements

```
def test_electric_guitars():
    guitars = lib.all_guitars('electric')

# Sweet little generator expression
    assert all(g.style == 'electric' for g in guitars)
```

## Testing for errors

```
def test_input_validation():
    with pytest.raises(ValueError):
        lib.all_guitars(None)
```

Test for errors (exceptions) with pytest.raises(TYPE).

# Pairs well with continuous integration

