He Nearly died trying to test game, click to learn more - Unreal Testing





Unit Tests

- Small (smallest possible)
- Isolated
- Black Box / White Box (Interface vs Methods)

Functional Tests

- Test against feature/function requirements
- Black box
- We kinda don't care what is happening inside functions

Smoke Tests

• Simple, just checking if something is working (not how it is working or what are results)

Unreal Testing

- Unit Tests
- Functional Tests (C++)
- Functional Tests (C++ with latent commands)
- Functional Tests (C++ with specs)
- Functional Tests (Blueprint)
- UI Test Image Comparison

- UI Test (Slate Tests)
- Gauntlet
- Python Tests

Unreal Unit Tests

- Kinda Functional Tests ;/
- Couple of assertions
- Only for FStruct type (Ownership of data is not connected to world)

Functional Tests(C++)

- We can test Components or Actors (Level is owner)
- We don't need to have created test level
- We can create temp level

Functional Tests (C++ with latent commands)

- Better building blocks
- Better for time specific test (animation that takes 5s)

Functional Tests (C++ with specs)

- Functional Tests with sugar
- Easy to disable test
- Testing Async Actions
- Handle Latent

Functional Tests (Blueprint)

- Works
- Not so useful
- Needs test level

UI Test Image Comparison

- Simple to create
- Needs source control (comparing diffs)
- Can be tuned

UI Test (Slate Tests) aka Automation Driver

- Not so many use cases
- Hard to find examples

UDN disagree with that statement (Only Slate)



Gauntlet

- Testing Build using AI controller
- Deploying

Python Tests

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Methods for complex cases

- Method stubs
- Mocks