

Unit Testing as Discipline and Practice

Unit Testing = Test Driven Development

Benefits of unit testing:

Testability requires good design

Reduces the mental complexity of software development

Prevents bugs

Prevents regressions

Faster debug

Best documentation

Provides confidence

Unit testing dogmatism:

Project line coverage goals

Retroactive unit testing of a legacy code

Unit testing pragmatism:

Master unit testing techniques

Make reasonable effort to unit test the new code

Either don't test a unit, or test all its requirements

Discuss with team members

How to get started?

Choose first SUTs to be small and simple!

Add a unit test to your project!

Next steps:

Run unit tests as part of build on CI server

Continue practicing unit testing

Stay pragmatic

Challenge yourself, but don't take it personally

Team considerations:

Collaborate with your colleagues if they are into unit testing too

Don't push unit testing if your colleagues aren't interested

Be humble and lead by example

Mastering unit testing takes time...

But it's one-time investment!

Goto Fail, Heartbleed, and Unit Testing Culture

[Mike Bland]

Thank you!