Test-Driven Development



Opening Discussion

- Projects
 - John Greene
 - HEB
- Who has used unit testing?
- Who has done test-driven development?
- General questions?

Values of TDD

- Speed
 - Get into a good rhythm.
- Simplicity
 - Don't do things you don't have to.
- Small steps
 - Don't try to do too much at one time.
- Keep focus
 - Don't let other changes distract you. Write code to finish this change even if you know you will undo it soon.

TDD Rhythm

- Add a test.
- Run all tests The new one fails.
- Make a little change.
- Run all tests Now they succeed.
- Refactor to remove duplication.

Refactoring

- Updating code without changing functionality.
- After a refactoring the code does exactly the same thing it did before from the user perspective.
- You update smelly code.

TDD Principles

- Test First
- Automated Test
- Test List
- One Step Test
- Fake it ('Til You Make It)
- Production code is driven into existence by tests.
- Triangulation
- Isolated Test

More Principles

- Evident Data Magic numbers are bad.
- Representative Data
- Assert First
- Obvious Implementation
- Evident Tests
- Break

Closing Comments

Seen anything cool on the web recently?