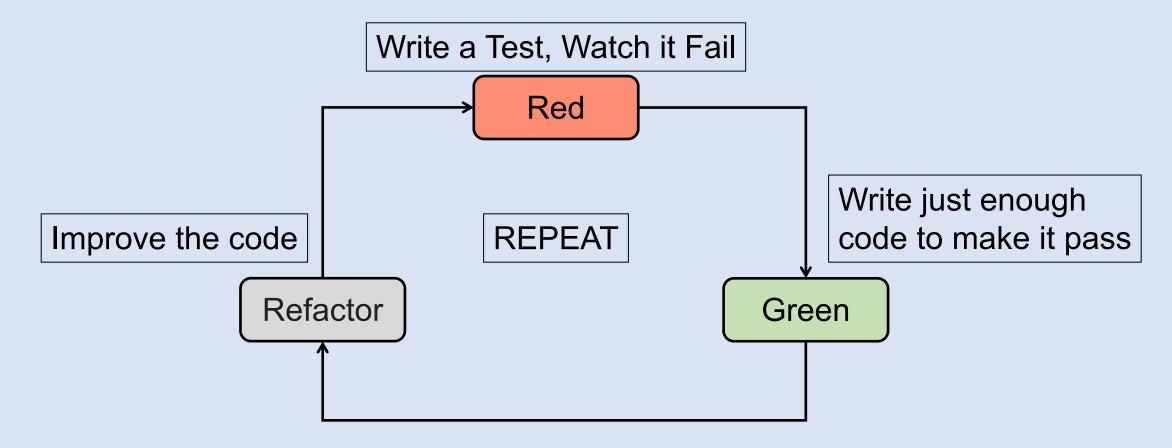
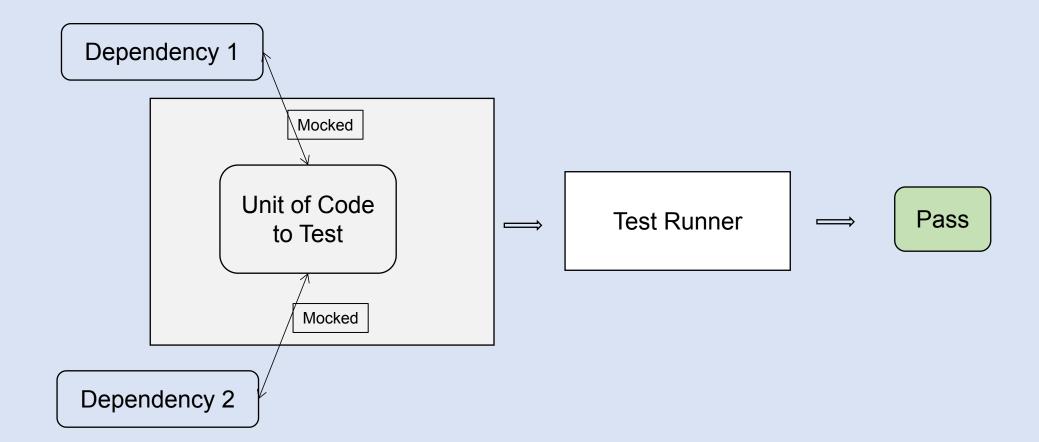
Elevate Your WordPress Plugin Development with TDD

Sudip Limbu Full-Stack Developer

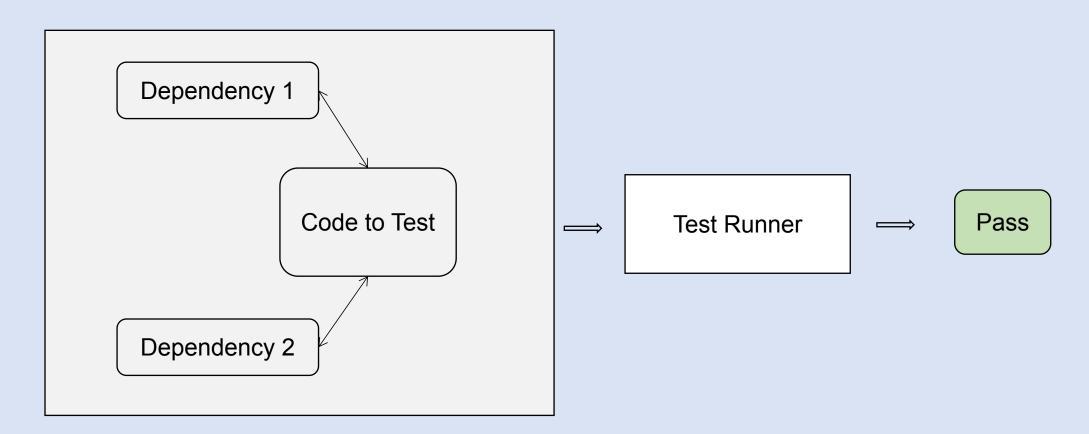
What is TDD?



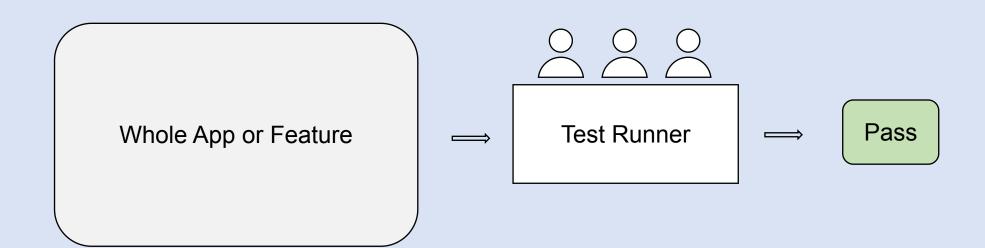
Unit Test



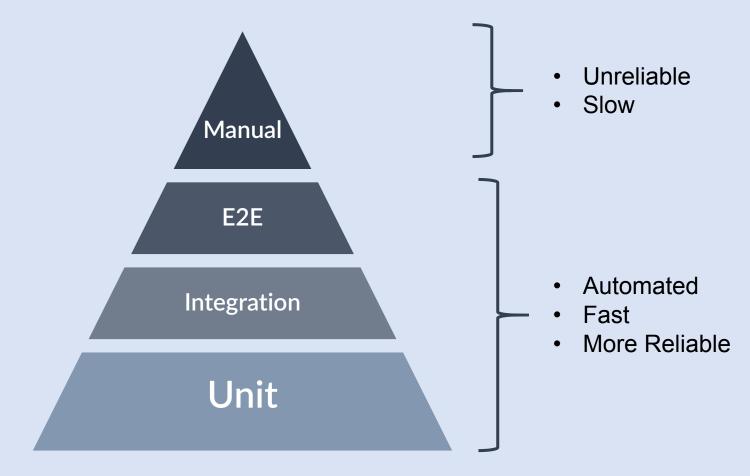
Integration Test



E2E Test

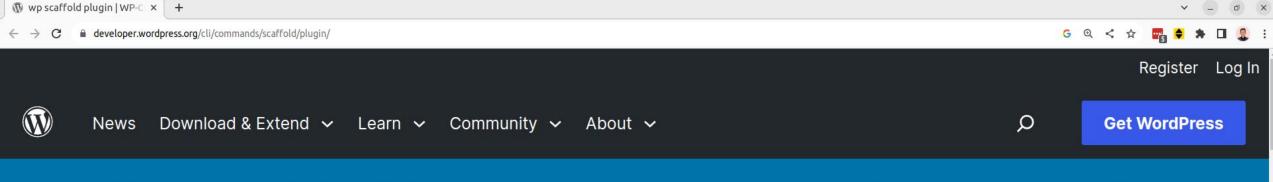


Testing Pyramid



Setup Environment for plugin testing

Plugin Scaffolding (using WP-CLI)



Developer Resources

Commands Config Handbook Blog Contributing

Browse: Home / WP-CLI Commands / wp scaffold / wp scaffold plugin (options | examples | global parameters)

wp scaffold plugin

Generates starter code for a plugin.

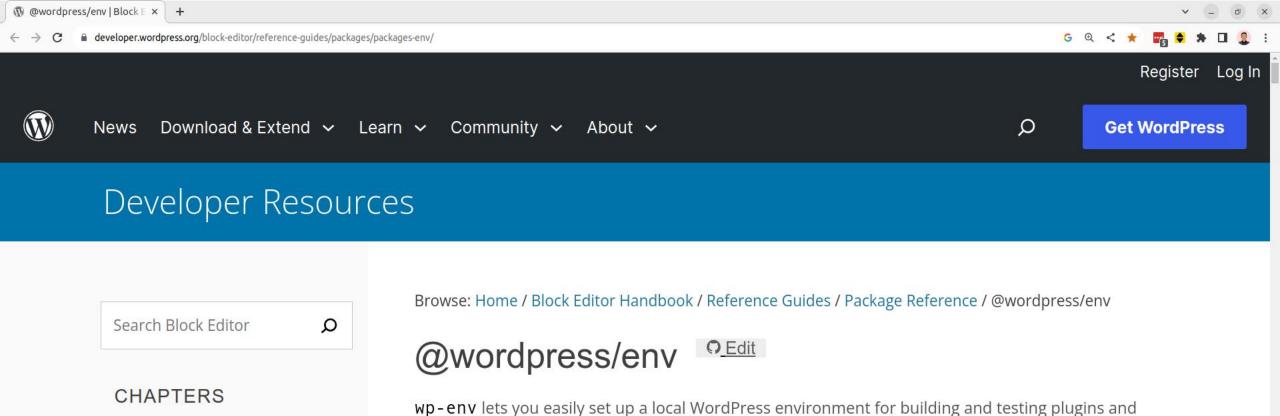


The following files are always generated:

- plugin-slug.php is the main PHP plugin file.
- readme.txt is the readme file for the plugin.
- package.json needed by NPM holds various metadata relevant to the project. Packages: grunt, grunt-wp-i18n and grunt-wp-readme-to-markdown. Scripts: start, readme, i18n.
- Gruntfile, is is the IS file containing Grunt tasks. Tasks: i18n containing addtextdomain and makepot, readme

Setup Environment for plugin testing

- Plugin Scaffolding (using WP-CLI)
- WP-ENV



themes. It's simple to install and requires no configuration.

Quick (tl;dr) instructions

Ensure that Docker is running, then:

\$ npm -g i @wordpress/env

\$ wp-env start

\$ cd /path/to/a/wordpress/plugin

Block Editor Handbook

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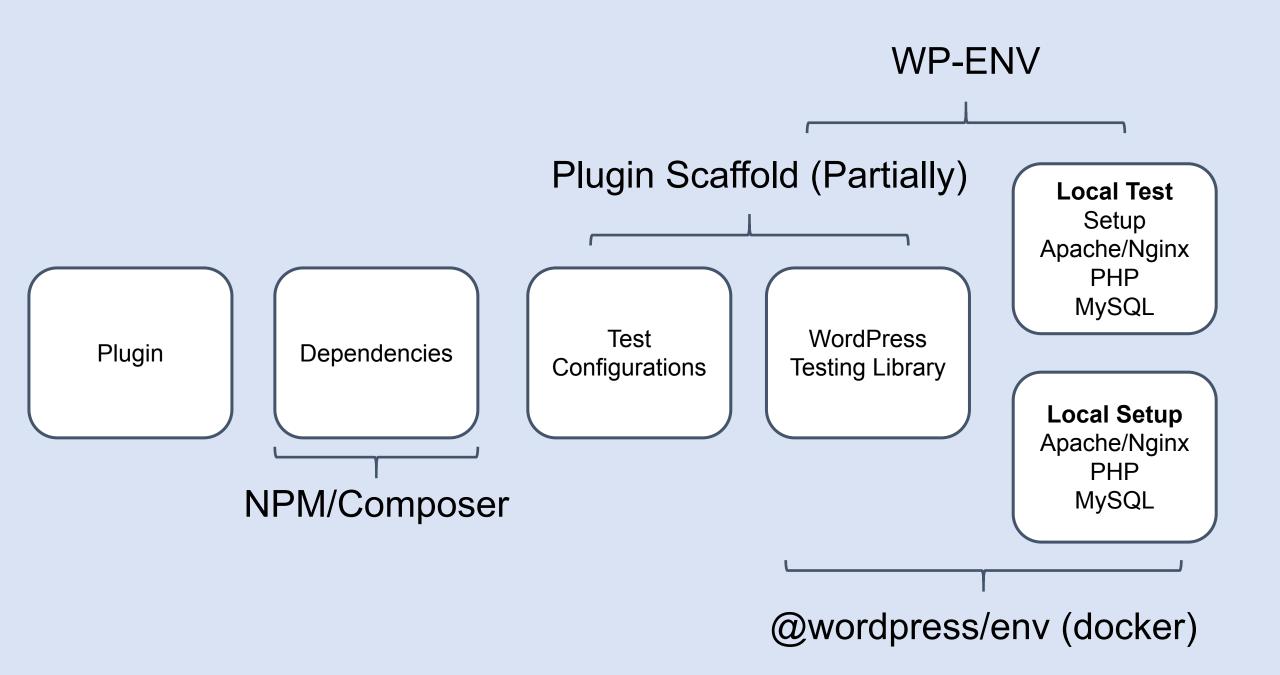
Getting Started

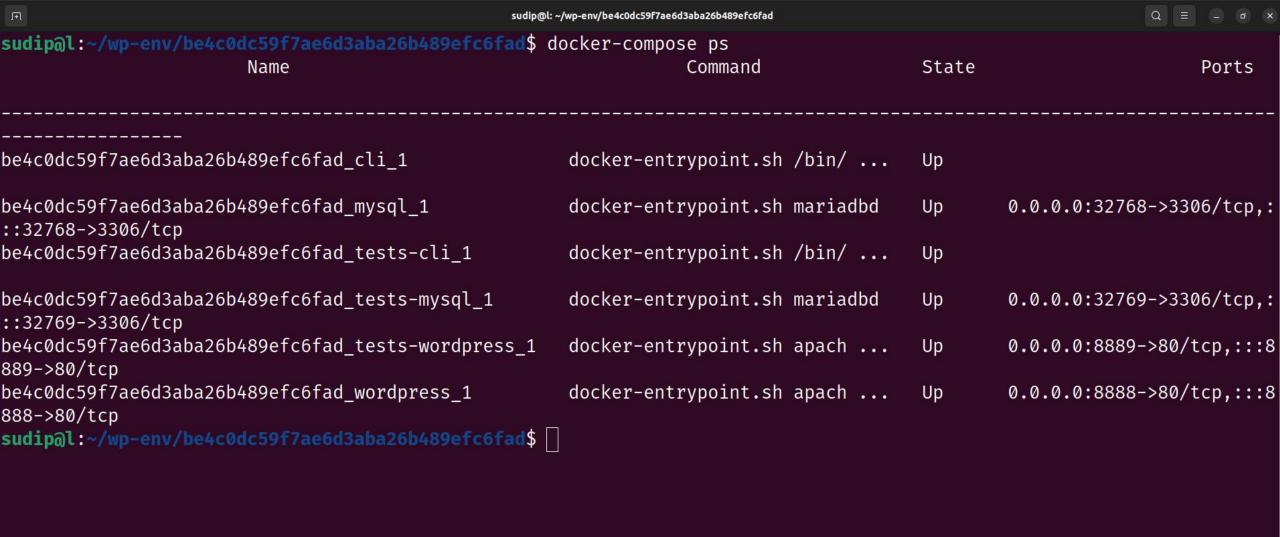
How-to Guides

Reference Guides

Block API Reference

Core Blocks Reference





Unit Test/Integration Requirements

- phpunit/phpunit
- yoast/phpunit-polyfills

Unit/Integration Tests

- wp-env creates isolated environments
- wp-env installs WordPress testing library along with the required packages
- use phpunit.xml for configuration
- use .wp-env.json manages WordPress and PHP versions
- use composer.json manages dependencies
- run phpunit

E2E test Requirements

- @playwright/test
- @wordpress/e2e-test-utils-playwright

E2E tests

- wp-env creates isolated environments
- wp-env serves app at localhost:8888/8889
- use playwright.config.ts for configuration
- use .wp-env.json manages WordPress and PHP versions
- package.json manages dependencies
- install testing browsers (chromium/firefox/webkit)
- run playwright

Test in multiple WordPress and PHP Versions

- use .github/workflows/main.yml to configure
- push your changes to github

Resources

- https://github.com/WordPress/wordpressdevelop
- https://github.com/WordPress/gutenberg
- https://github.com/woocommerce/woocommerce
- https://github.com/elementor/elementor

Why TDD?

- Improves Code Quality
- Self Documentation
- Decreases Technical Debt
- Improves Developer Confidence
- Agile Methodology (CI/CD)
- Happy Customer



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