Test::Cookbook

Belden Lyman, shutterstock

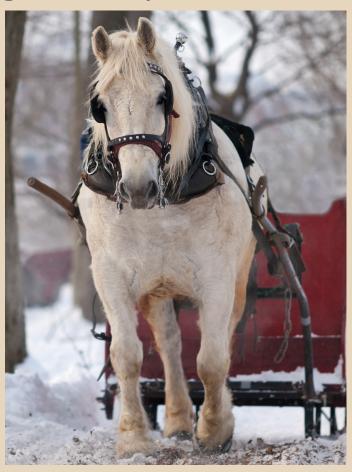
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this talk on github: github.com/belden/test-cookbook

Test Driven Development

I think we generally think about it like this



I think about Test Driven Development like this



i.e. we're taking your code for a test drive

Your tests should give you info

- Right, you get to measure correctness; we get it
- Your test harness can have meta-tests
 - this test has failed if it's slower than 2 standard deviations from the norm
- Let you know when the bad refactoring has happened

Above all, Test Driven Development needs failures to be meaningful

Consider:

More info is better



slides/deeply-shootout.t

A simple toolset

```
deep_ok()
set_ok()
xml_ok()
system_ok()
memoized_ok()
stdout_of(&), stderr_of(&)
```

slides/simple-toolset.t slides/xml.t

Tests should be easy to maintain

- Tests in a loop are easy to write...
 - maintaining testcounts gets annoying
 - understanding failure modes becomes hard
 - chances are each iteration isn't really a unique test anyway

mock objects

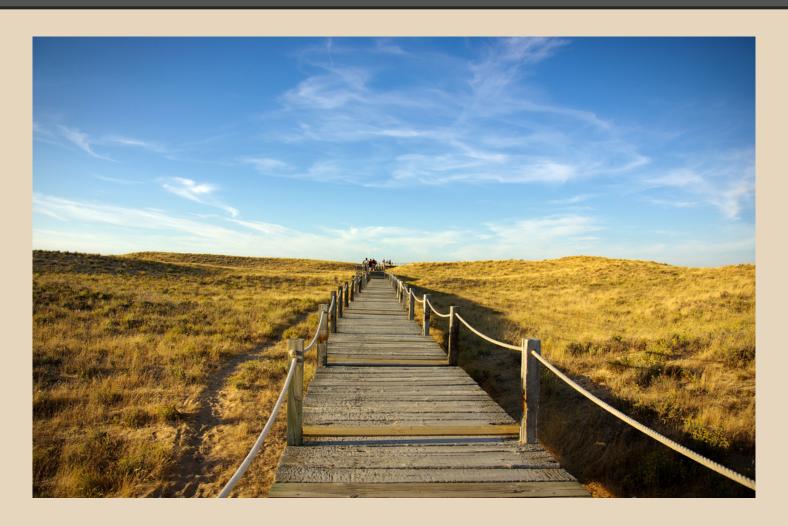
It's not that hard to roll your own mock object library.

- We're Perl developers; we don't always get to be purely TDD
- Help you pin down the behavior of a legacy system

Monkeypatching

```
#!/usr/bin/perl
 package some;
  sub where { 'beyond the sea' }
is ( some->where, 'beyond the sea' );
 no warnings 'redefine';
  local *some::where = sub { 'over the rainbow' };
  is ( some->where, 'over the rainbow' );
```

resub - monkeypatching delivered



dependency injection

This allows users of your code to specify what objects should be created, and how.

overriding CORE functions

Install a resub on any CORE function with a prototype

Writing tests is work.

Refactor your tests aggressively.

- CPAN is great, and almost solves all your problems...
- ...but ultimately your problems are unique like you, snowflake...
- ...so you should feel empowered to write out your own testing library.



Thanks

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(Hey, we're hiring)

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