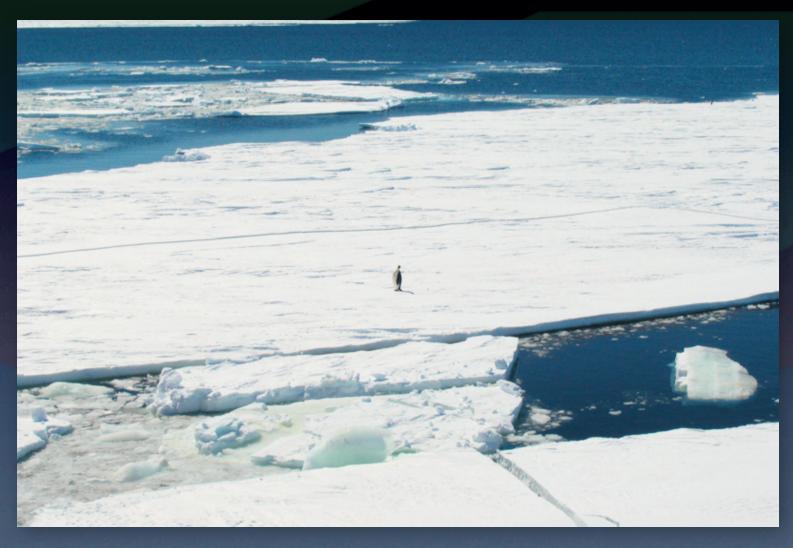
Testing with PHPUnit



```
use Caution;
      while ( MediaWiki && PHPUnit ) {
          // TODO: Write tests
                                      WIKIMEDIA 👣
..........
```

Yeah, yeah, we know we need more tests – but it's more than just having them around Unit testing, like any other superpower, can be used for good or evil Let's talk about how to do this the right way

Unit Tests



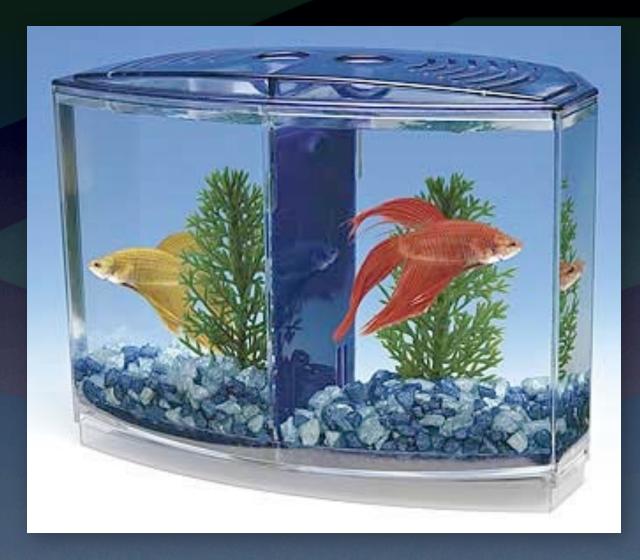


Integration Tests





Keep 'em separated





.....

Assertions





- You need at least one assertion (or the test is useless)
- But too many will spoil the soup (tests shouldn't be too busy)
- Use the most specialized assertion available

Test names

"test" + NameOfSystemUnderTest

Like: testWfMsg or testFileUploads



- Always start with the word "test"
- End in a TitleCase description of the system under test
- -- Symbol name for unit tests

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-- Behavior description for integration tests

Assertion messages

"Sentence case description"

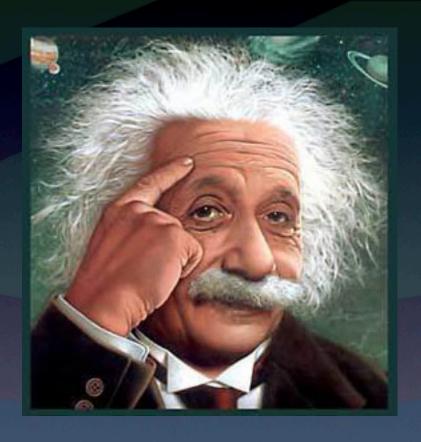
Like: "Returns string of message key with angle brackets if message does not exist"



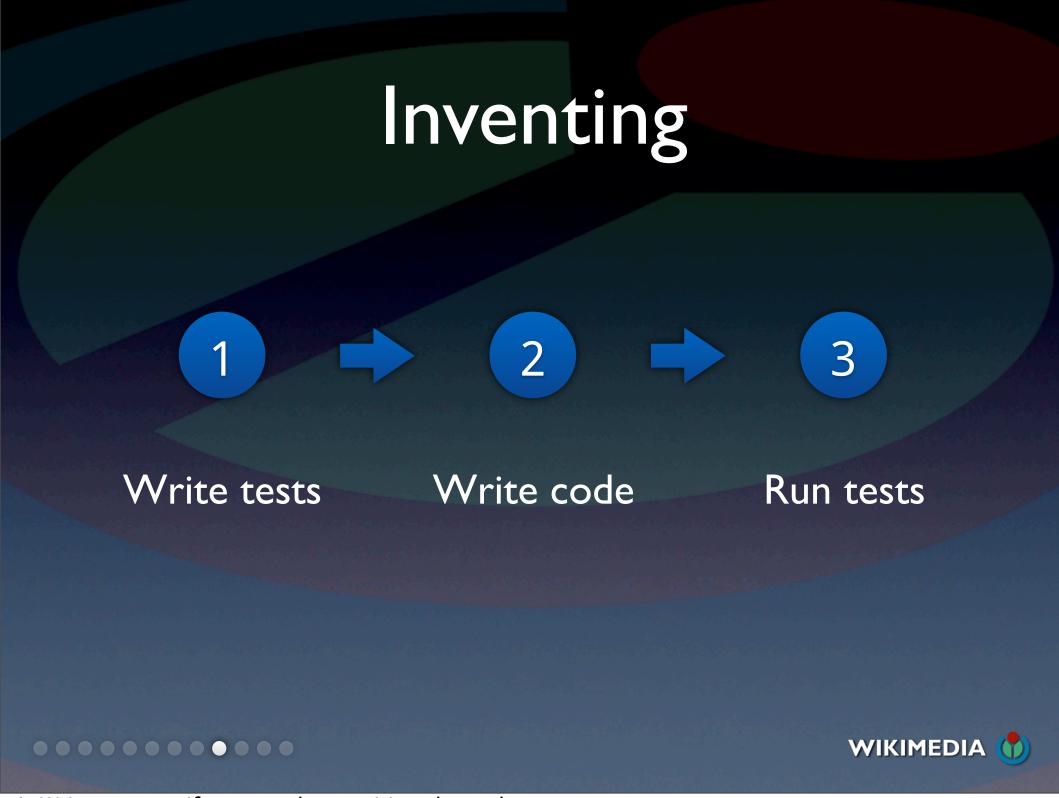
- Complete sentence, punctuation not necessary
- Should be very descriptive, tell a story

000000000000

Inventing







- 1. Write tests as if you are done writing the code
- 2. Write the actual code
- 3. Run the tests to verify it works properly

Refactoring





Refactoring

1 - 2 - 3

Change tests Change code

Run tests

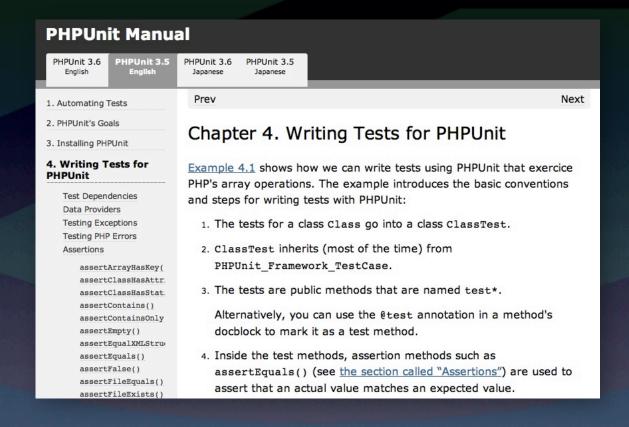


- 1. Modify the tests as if the changes have already been made
- 2. Make the actual changes

..........

3. Run the tests to verify the changes were made correctly

RTFM!



http://www.phpunit.de/manual/current/en/



Writing tests is like learning to cook, improvisation rarely yields a positive outcome Read the manual and stick to the recipe – don't start getting fancy with the spices!

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Happy testing!

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