Comprehensive guide for change

TDD specific considerations

1. Write down intended benefits

2. Identify those which can be measured

Quantitative

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2 3

Flow metrics

   - Cycle time

   - Releases

   - Cards completed

Deploys rolled back

Time spent on bugs

   - Categorizing

   - Reproducing

   - Fixing

~~**Code coverage**~~

Quantitative

Flow metrics

- Cycle time

- Releases

- Cards completed

Deploys rolled back

Time spent on bugs

- Categorizing

- Reproducing

- Fixing

~~Code coverage~~

Qualitative

Developer happiness

Team communication

Sense of ownership

...

Code Kata

An exercise in programming which helps programmers hone their skills through practice and repetition.

Start by test-driving all
new code.

Test-driving Existing Code

Tests

Existing Code

```
bedtime_routine = function() {…}
morning_routine = function() {
  eat_breakfast();
  get_dressed();
  brush_teeth();
}
```

Test-driving Existing Code

Tests

🚫morning_routine_test = function()
  {
   routine_includes_breakfast();
  }

Existing Code

```
// bedtime_routine = function() {…}
// morning_routine = function() {
//   eat_breakfast();
//   get_dressed();
//   brush_teeth();
// }
```

Test-driving Existing Code

Tests

🚫 morning_routine_test = function()
{
 routine_includes_breakfast();
}

Existing Code

```
// bedtime_routine = function() {…}
   morning_routine = function() {
      eat_breakfast();
//    get_dressed();
//    brush_teeth();
   }
```

Test-driving Existing Code

Tests

✓ morning_routine_test = function()
{
  routine_includes_breakfast();
}

🚫 morning_routine_test_2 = function()
{
  routine_includes_clothes();
}

Existing Code

```
// bedtime_routine = function() {…}
  morning_routine = function() {
    eat_breakfast();
//  get_dressed();
//  brush_teeth();
  }
```

Test-driving Existing Code

Tests

✓ `morning_routine_test = function()`
`{`
`  routine_includes_breakfast();`
`}`

🚫 `morning_routine_test_2 = function()`
`{`
`  routine_includes_clothes();`
`}`

Existing Code

`// bedtime_routine = function() {…}`
`  morning_routine = function() {`
`    eat_breakfast();`
`    get_dressed();`
`//   brush_teeth();`
`  }`

Test-driving Existing Code

Tests

✓ morning_routine_test = function()
{
  routine_includes_breakfast();
}

✓ morning_routine_test_2 = function()
{
  routine_includes_clothes();
}

Existing Code

```
// bedtime_routine = function() {…}
  morning_routine = function() {
    eat_breakfast();
    get_dressed();
//  brush_teeth();
  }
```

Add tests to existing code
as the code is touched.