

**T8**Test Automation 2019-05-02 11:15

#### What's That Smell? Tidying Up Our Test Code

Presented by:

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#### **Angie Jones**

Angie Jones is a Senior Developer Advocate who specializes in test automation strategies and techniques. She shares her wealth of knowledge by speaking and teaching at software conferences all over the world, as well as writing tutorials and blogs on angiejones.tech. As a Master Inventor, Angie is known for her innovative and out-of-the-box thinking style which has resulted in more than 25 patented inventions in the US and China. In her spare time, Angie volunteers with Black Girls Code to teach coding workshops to young girls in an effort to attract more women and minorities to tech.

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#### CODE SMELL

is an implementation that violates fundamental design principles in a way that may

### APPLICATION

UNDER

TEST

# JAKE'S BASE

#### LONG CLASS

The purpose of the class is multifold.

To find anything, you must scroll and scroll.

1. No single responsibility

2. Hard to find things

3. Difficult to maintain

# SEPARATE CONCERNS

#### LONG METHOD

This guy does it all!
But it makes it hard to know when to call.

1. No single responsibility

2. Confusing for callers

3. Difficult to read and understar

#### WE HAVE A PROBLEM!

How come our second test cannot utilize the search method?

# SPLIT METHODS

#### DUPLICATE CODE



When you find yourself coding in haste, it's very tempting

1. Any change needed has to take place in multiple spots

2. Can lead to other smells

# REMOVE DUPLICATION

#### FLAKY LOCATOR STRATEGY



At this moment, your locators work fine.

But can they

1. Fragility

2. Unreliability

# STABILIZE LOCATORS

#### INDECENT EXPOSURE



Too many see you.
Your scope is too wide.
All who should know you

1. Violates encapsulation (fields)

2. Allows tests to directly access and manipulate the DOM, which is not their responsibility

## NARROW SCOPE

#### INEFFICIENT WAITS



The speed of machine is faster than man so you slow it down

1. Slows down runtime

2. Different environments may require different wait times

## 

## NTELLIGENTLY

#### ULTIPLE POINTS OF FAILUR



The framework's job is to force state, not to determine

1. Violates single responsibility

2. Limits reusuability

## INCREASE FLEXIBILITY

### QUESTIONS?

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