#### INTRODUCTION

- Jasmine is an automated testing framework for JavaScript.
- Testing ensures that everything goes down exactly how you planned. It's like you're God…but it's probably a little more boring because it's code.
- Terms to know .....1.SUITE 2.SPEC 3.SRC

#### HOW TO GET JASMINE?

- **■** Download the latest jasmine standalone version.
- Unzip it
- Empty out the /spec and /src directories....because you don't need them

#### SUITE

- A test suite begins with call to the global jasmine function "DESCRIBE".
- It has two parameters a "STRING" and a "FUNCTION".......
- string is name or title for a spec suite(what is tested)
- The function is a block of code that implements the suite.

#### SPEC

- Specs are defined by calling the global jasmine function "It".
- The string is the title of the spec and function is the spec or test.
- ► A Spec.....

```
describe("hello world",function(){
  it("says hello",function(){
    expect(hello().toEqual("hello world");
    });
});
```

#### MATCHERS

- There are basically 4 matchers(though there are more)
- .toEqual()
- .toContain()
- .toBeNull()
- .toBeTruthy()

### .ToEqual()

- It compares both the actual value and expected value
- expect(hello().toEqual("hello world");

it compares result of "hello()" function to that of "hello world".

### .toContain()

- It checks if a particular thing is present in the given function.
- expect(hello().toContain("hello");

### .toBeNull()

- It checks if the function returns null value!!.
- expect(hello().toBeNull();

## .toBeTruthy()

- It is just opposite of checking null.. If a function returns something(anything)...then it is called as being truthy.
- expect(hello().toBeTruthy("hi");

# CALCULATOR (source)

```
var a=10;
var b=5;
var calculator= {
       add :function(){
             return a+b;
      },
      subtract:function(){
             return a-b;
      },
      multiply:function(){
             return a*b;
      },
      divide:function(){
             return a/b;
      }
      };
```

## Calculator (spec)

```
describe("calculator",function(){
  it("adds two number",function(){
  expect(calculator.add()).toEqual(15);
  });
  it("subtracts two numbers",function(){
  expect(calculator.subtract()).toEqual(5);
  });
  it("multiply two numbers",function(){
  expect(calculator.multiply()).toEqual(50);
  });it("divides two numbers",function(){
  expect(calculator.divide()).toEqual(2);
  });
```

# Spec sample for all matchers

```
it("shows toEqual matcher",function(){
expect(calculator.subtract()).toEqual(5);
});
it("shows notEqual matcher",function(){
expect(calculator.subtract()).not.toEqual(50);
});
it("shows toBeTruthy matcher",function(){
expect(calculator.subtract()).toBeTruthy();
});
it("shows toBeNull matcher",function(){
expect(calculator.subtract()).not.toBeNull();
});
it("shows toContain matcher",function(){
expect(hello()).toContain("world");
});
});
```

## This is how spec-runner looks like

```
<head>
<!-- include source files here... -->
<script src="../jasmine-standalone-
2.3.4/src/calculator.js"></script>
<script src="../jasmine-standalone-2.3.4/src/hello.js"></script>
<!-- include spec files here... -->
<script src="../jasmine-
standalone2.3.4/spec/calculatorspec.js"></script>
<script src="../jasmine-standalone-
2.3.4/spec/hellospec.js"></script>
</head>
```