Instructor Notes:

Add instructor notes here.

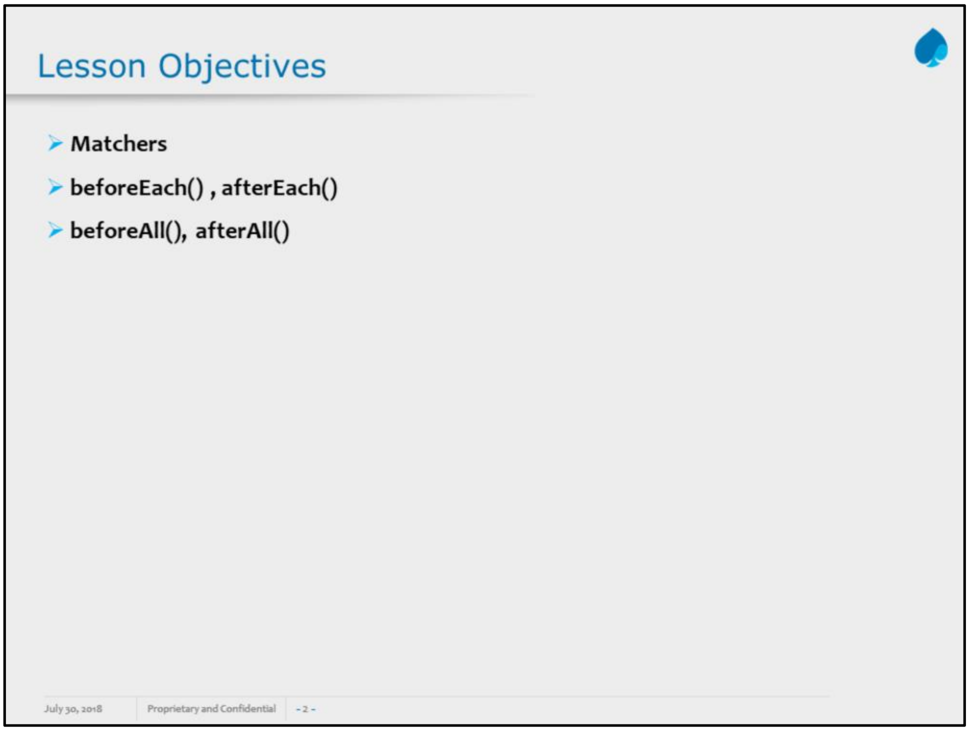
Jasmine

JavaScript testing with Jasmine

Capgemini

Instructor Notes:

Add instructor notes here.



Lesson Objectives

- Matchers
- beforeEach() , afterEach()
- beforeAll(), afterAll()

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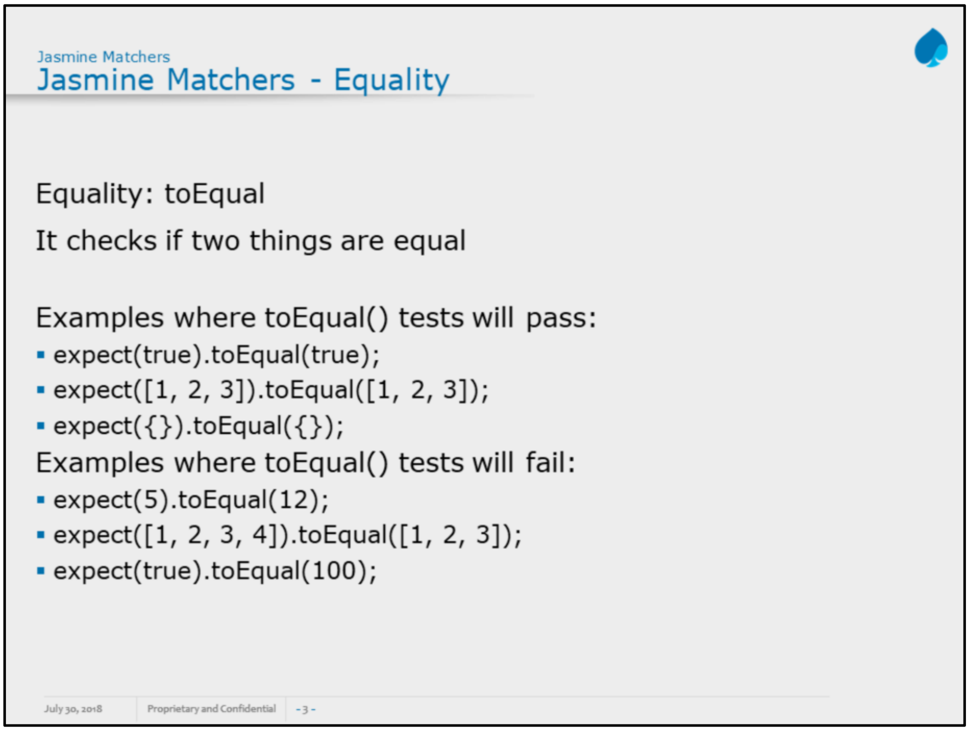

Jasmine Matchers

Jasmine Matchers - Equality

Equality: toEqual

It checks if two things are equal

Examples where toEqual() tests will pass:

- expect(true).toEqual(true);
- expect([1, 2, 3]).toEqual([1, 2, 3]);
- expect({}).toEqual({});

Examples where toEqual() tests will fail:

- expect(5).toEqual(12);
- expect([1, 2, 3, 4]).toEqual([1, 2, 3]);
- expect(true).toEqual(100);

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Instructor Notes:

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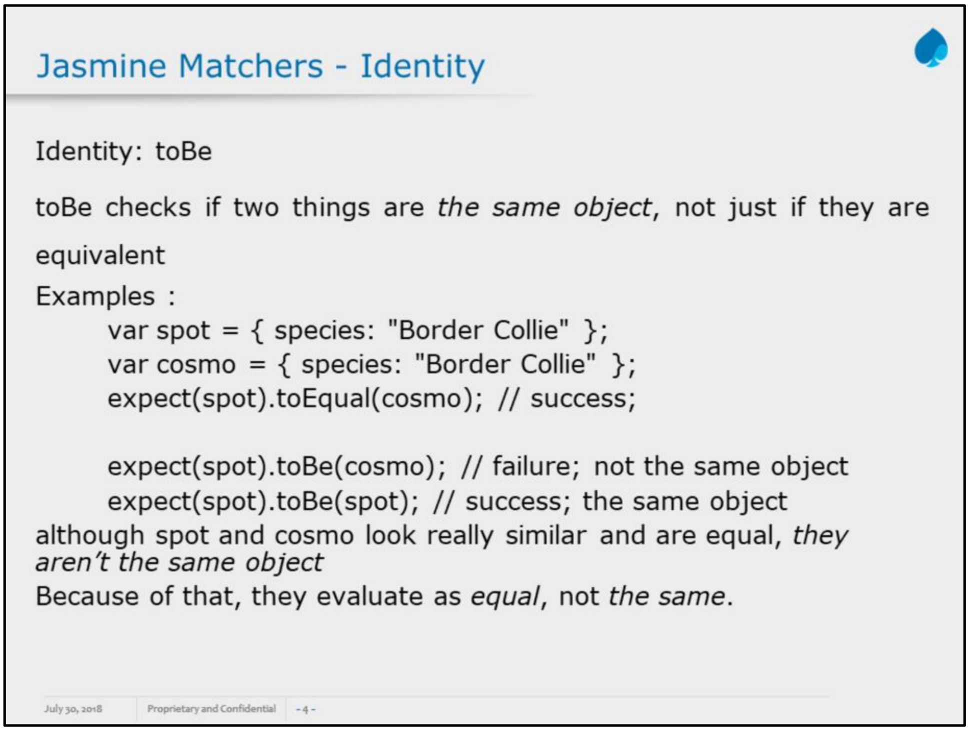

Jasmine Matchers - Identity

Identity: toBe

toBe checks if two things are *the same object*, not just if they are equivalent

Examples :

```
var spot = { species: "Border Collie" };
var cosmo = { species: "Border Collie" };
expect(spot).toEqual(cosmo); // success;

expect(spot).toBe(cosmo); // failure; not the same object
expect(spot).toBe(spot); // success; the same object
```

although spot and cosmo look really similar and are equal, *they aren't the same object*

Because of that, they evaluate as *equal*, not *the same*.

Instructor Notes:

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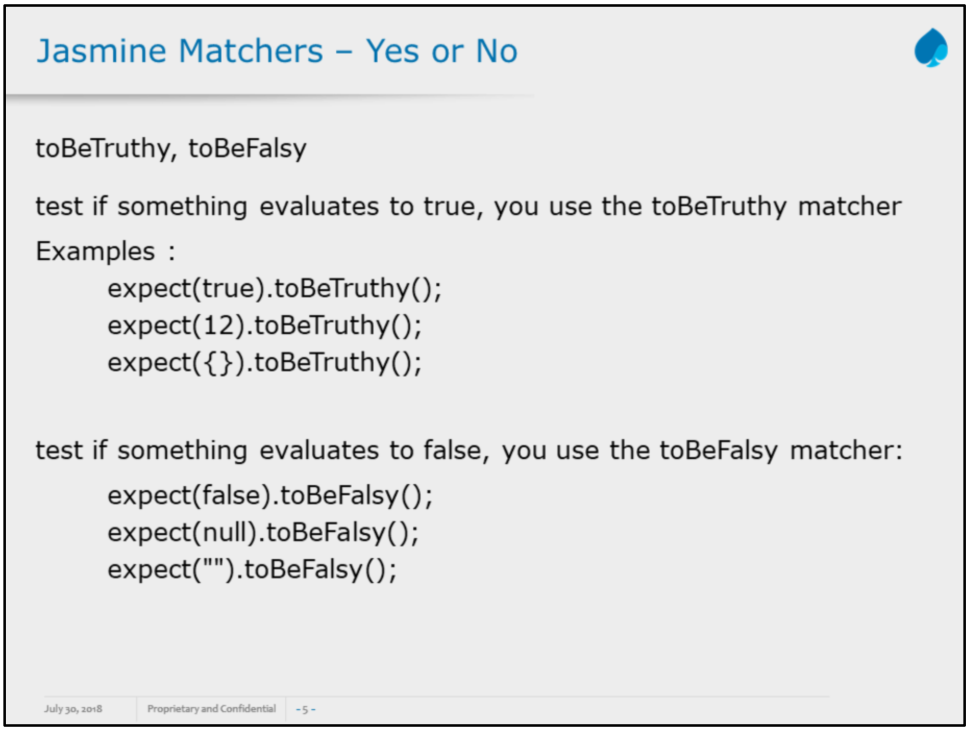


Jasmine Matchers – Yes or No

toBeTruthy, toBeFalsy

test if something evaluates to true, you use the toBeTruthy matcher

Examples :

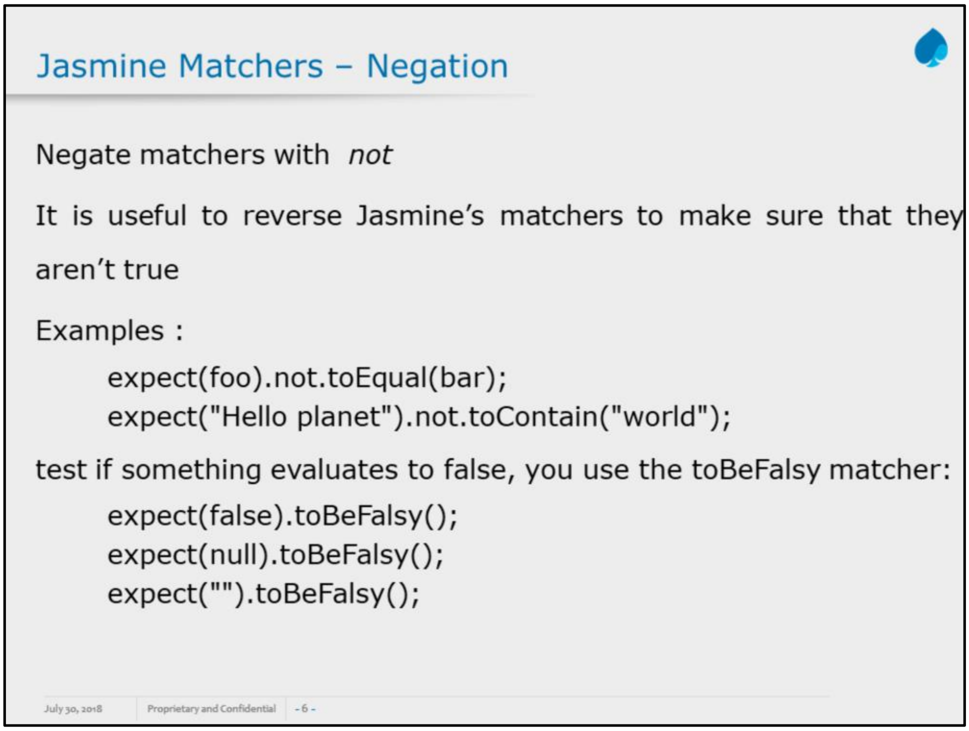
```
expect(true).toBeTruthy();
expect(12).toBeTruthy();
expect({}).toBeTruthy();
```

test if something evaluates to false, you use the toBeFalsy matcher:

```
expect(false).toBeFalsy();
expect(null).toBeFalsy();
expect("").toBeFalsy();
```

Instructor Notes:

Add instructor notes here.



Jasmine Matchers – Negation

Negate matchers with *not*

It is useful to reverse Jasmine’s matchers to make sure that they aren’t true

Examples :

```
expect(foo).not.toEqual(bar);
expect("Hello planet").not.toContain("world");
```

test if something evaluates to false, you use the toBeFalsy matcher:

```
expect(false).toBeFalsy();
expect(null).toBeFalsy();
expect("").toBeFalsy();
```

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Instructor Notes:

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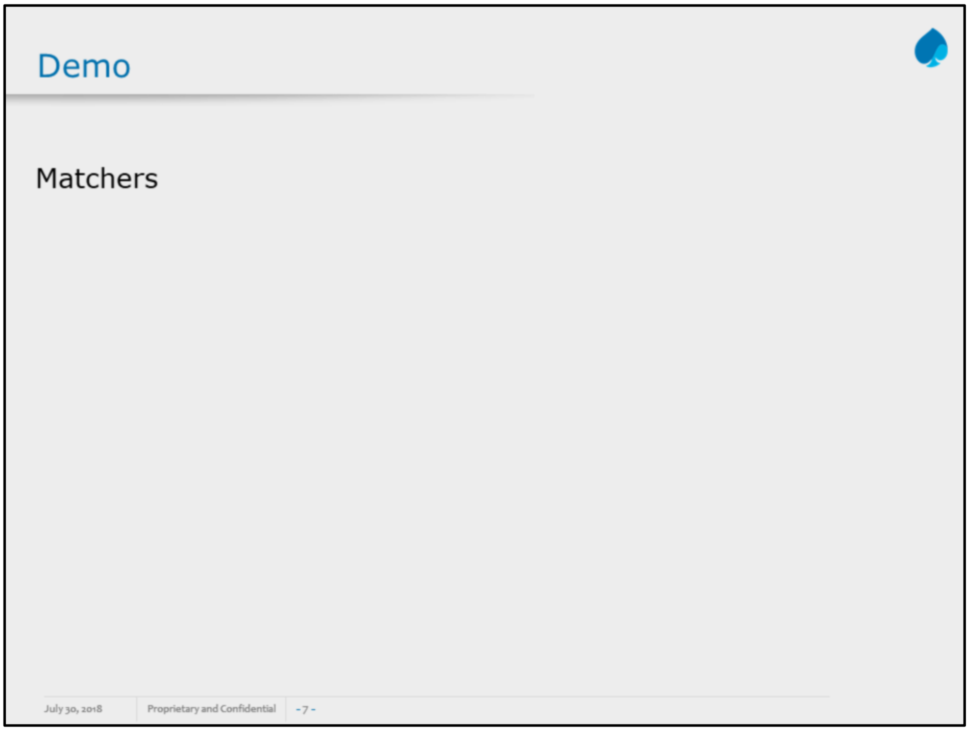

Demo

Matchers

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Instructor Notes:

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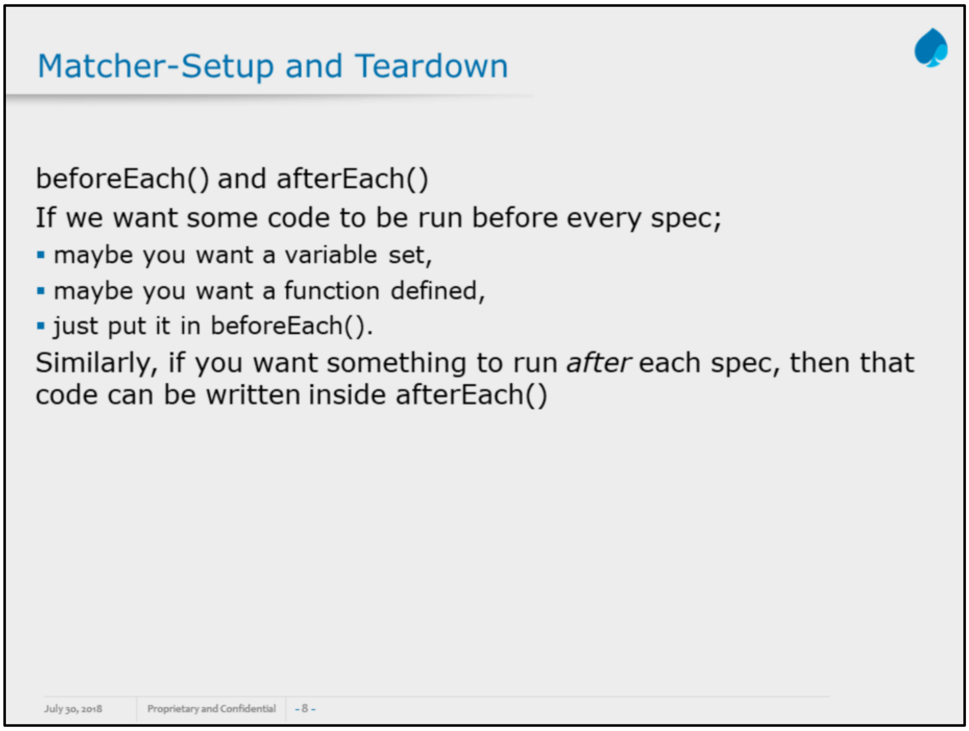


Matcher-Setup and Teardown

beforeEach() and afterEach()

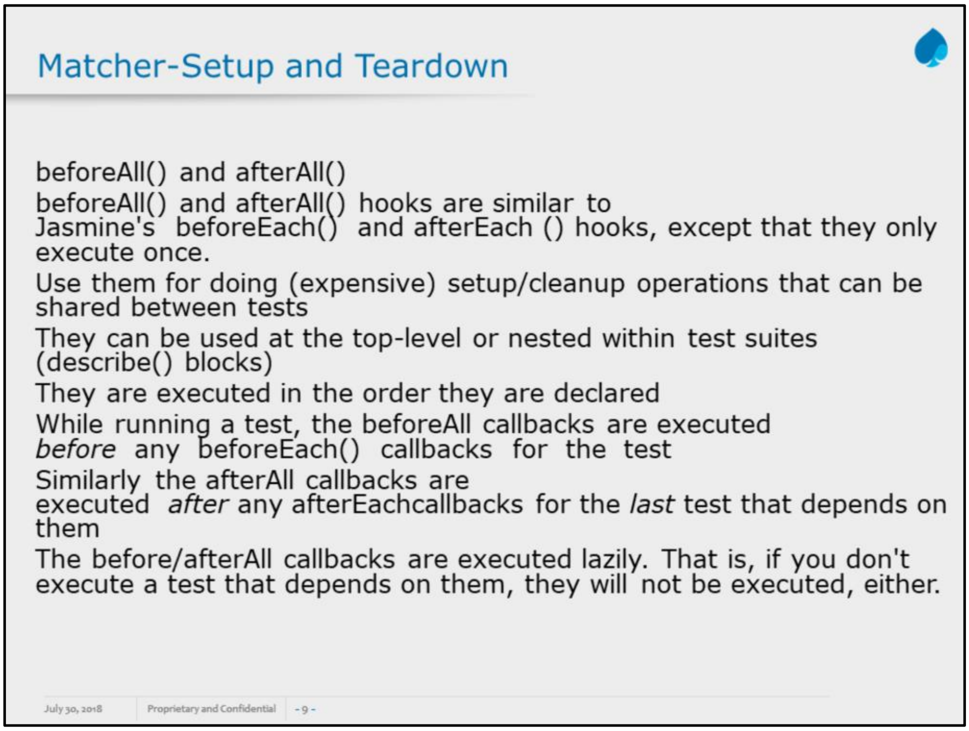
If we want some code to be run before every spec;

- maybe you want a variable set,
- maybe you want a function defined,
- just put it in beforeEach().

Similarly, if you want something to run *after* each spec, then that code can be written inside afterEach()

Instructor Notes:

Add instructor notes here.



Matcher-Setup and Teardown

beforeAll() and afterAll()

beforeAll() and afterAll() hooks are similar to Jasmine's beforeEach() and afterEach () hooks, except that they only execute once.

Use them for doing (expensive) setup/cleanup operations that can be shared between tests

They can be used at the top-level or nested within test suites (describe() blocks)

They are executed in the order they are declared

While running a test, the beforeAll callbacks are executed *before* any beforeEach() callbacks for the test

Similarly the afterAll callbacks are executed *after* any afterEachcallbacks for the *last* test that depends on them

The before/afterAll callbacks are executed lazily. That is, if you don't execute a test that depends on them, they will not be executed, either.

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Instructor Notes:

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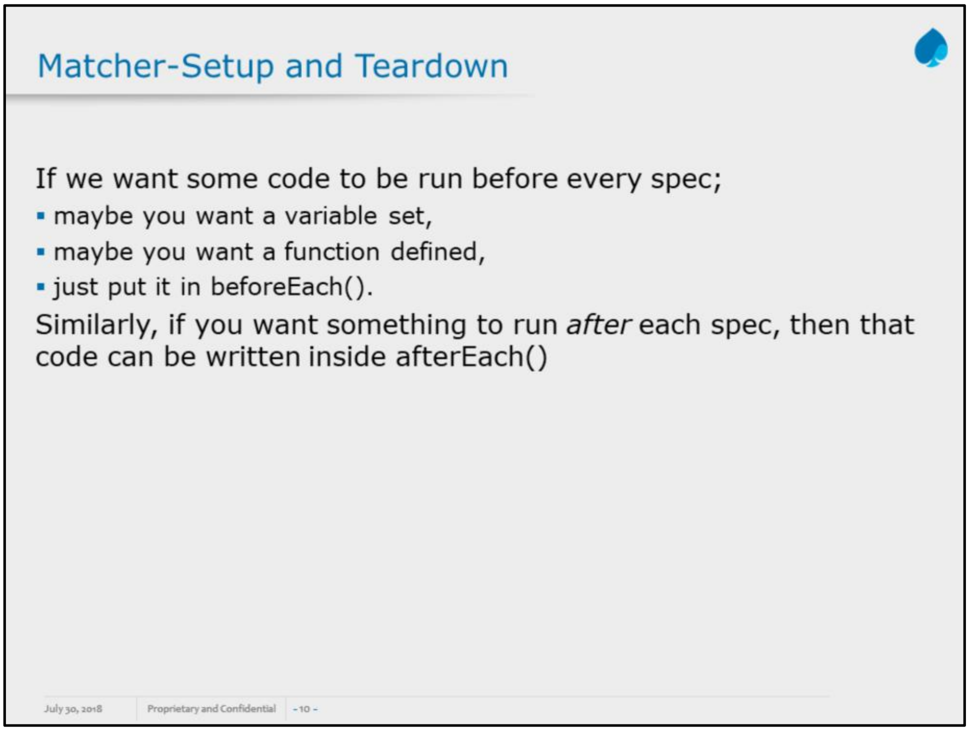

Matcher-Setup and Teardown

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Instructor Notes:

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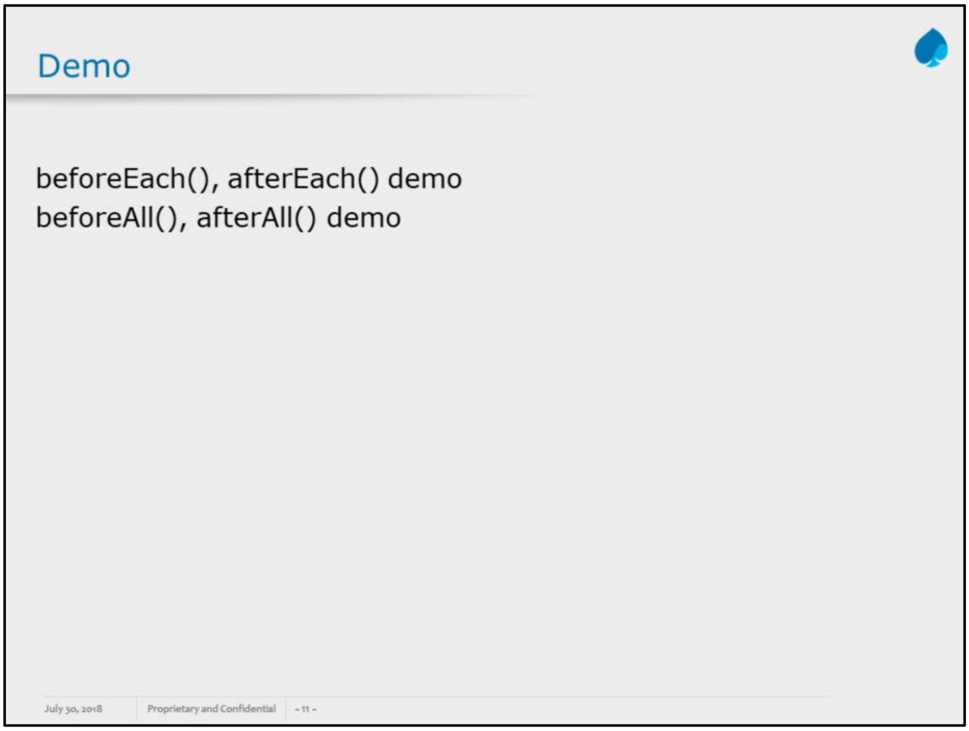

Demo

beforeEach(), afterEach() demo
beforeAll(), afterAll() demo

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Instructor Notes:

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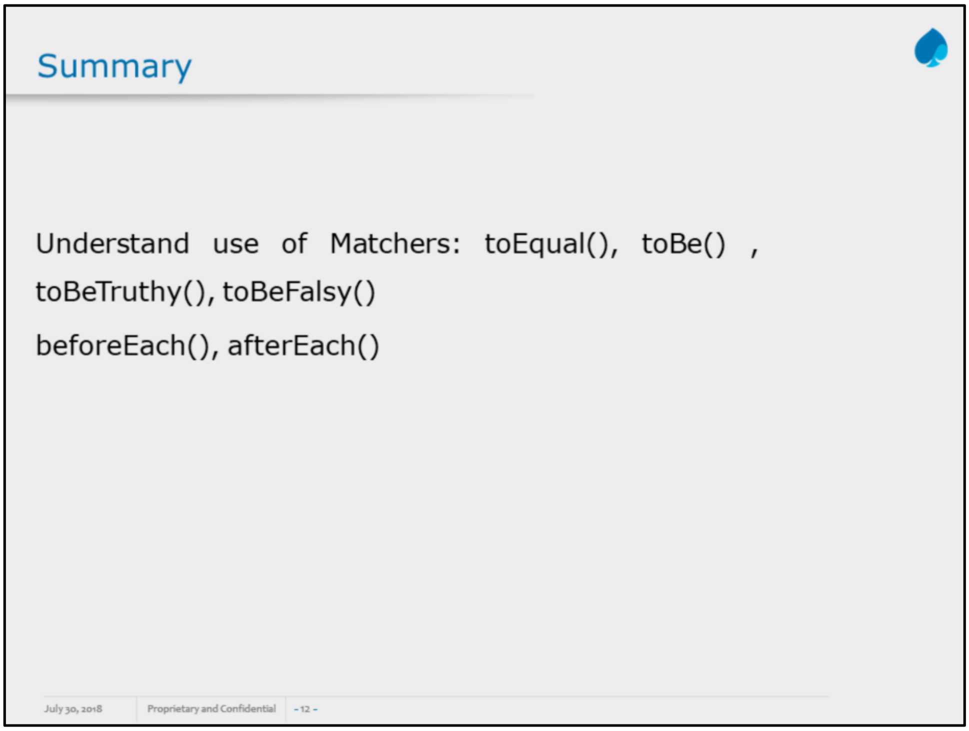

Summary

Understand use of Matchers: toEqual(), toBe() , toBeTruthy(), toBeFalsy()

beforeEach(), afterEach()

Add the notes here.