

WEBINAR

TESTING AT THE EDGES

FRANKLIN WEBBER
TRAINING AND TECHNICAL CONTENT LEAD



Franklin Webber

Training and Technical Content Lead

- ❖ twitter.com/franklinwebber
- ❖ github.com/burtlo
- ❖ linkedin.com/in/fwebber



Ceci n'est pas un entraîneur

Who I Think You Are

Chef Cookbook Author

- Author and maintain Chef cookbooks
- Some experience with writing ChefSpec tests



What You Will Learn

The Focus

- ❖ Testing resource guards
- ❖ Testing helper methods
- ❖ Testing recipes with search and data bags



```
default.rb
1 #-
2 # Cookbook Name:: ssh
3 # Recipe:: default
4 #
5 # Copyright (c) 2017 The Authors, All Rights Reserved.
6
7 execute 'enable SSH' do
8   command '/usr/sbin/systemsetup -setremotelogin on'
9   not_if '/usr/sbin/systemsetup -getremotelogin | /usr/bin/grep On'
10  action :run
11 end
12
```

recipes/default.rb 12:1

LF UTF-8 Chef ↻ master

What You Will Learn

The Focus

- ❖ Testing resource guards
- ❖ **Testing helper methods**
- ❖ Testing recipes with search and data bags



```
default.rb
1 #-
2 # Cookbook Name:: aar
3 # Recipe:: default
4 #
5 # Copyright (c) 2017 The Authors, All Rights Reserved.
6
7 execute 'Install AAR Application' do
8   command 'python /app/AARinstall.py'
9   not_if do
10    File.exist?('/site/aar/install_complete_marker_file')
11  end
12 end
13
```

recipes/default.rb 13:1

LF UTF-8 Chef ↻ master +1, -3

What You Will Learn

The Focus

- ❖ Testing resource guards
- ❖ Testing helper methods
- ❖ **Testing recipes with search and data bags**



A screenshot of a code editor showing a ChefSpec test file. The file contains RSpec code for testing an `ark::default` recipe. It includes context blocks for no attributes specified on an unspecified platform, and another block for installing specific packages like libtool, autoconf, unzip, rsync, make, gcc, and autogen. It also includes a block for ensuring the `gcc-c++` package is not installed.

```
spec_helper.rb          default_spec.rb
1 require 'spec_helper'-
2
3 describe 'ark::default' do
4   context 'when no attributes are specified, on an unspecified platform' do
5     let(:chef_run) do
6       runner = ChefSpec::SoloRunner.new
7       runner.converge(described_recipe)
8     end
9
10    it 'installs necessary packages' do
11      expect(chef_run).to install_package('libtool')
12      expect(chef_run).to install_package('autoconf')
13      expect(chef_run).to install_package('unzip')
14      expect(chef_run).to install_package('rsync')
15      expect(chef_run).to install_package('make')
16      expect(chef_run).to install_package('gcc')
17      expect(chef_run).to install_package('autogen')
18    end
19
20    it "does not install the gcc-c++ package" do
21      expect(chef_run).not_to install_package("gcc-c++")
22    end

```

Schedule

- ❖ **Introduction (3 minutes)**
- ❖ **Techniques (40 minutes)**
- ❖ **Questions (12 minutes)**
- ❖ **Wrap up (3 minutes)**

Example Code Repository



```
> git clone https://github.com/chef-training/testing_at_the_edges-repo.git
```

```
Cloning into 'testing_at_the_edges-repo'...
remote: Counting objects: 67, done.
remote: Compressing objects: 100% (41/41), done.
remote: Total 67 (delta 12), reused 67 (delta 12), pack-reused 0
Unpacking objects: 100% (67/67), done.
```

Let Us Know What You Think

"Ask a Question" and I will answer it.

"Rate this" presentation to leave your feedback and help me do my work better.

To share, click on the appropriate professional/social network in "Details"



WEBINAR

TESTING AT THE EDGES

FRANKLIN WEBBER
TRAINING AND TECHNICAL CONTENT LEAD



Agenda

TECHNIQUES

- { **testing resource guards**
- testing helper methods**
- testing search**
- questions**
- wrap up**

Agenda

TECHNIQUES

- ✓ **testing resource guards**
- **testing helper methods**
- **testing search**
- **questions**
- **wrap up**

Agenda

TECHNIQUES

- ✓ **testing resource guards**
- ✓ **testing helper methods**
- ❑ **testing search**
- ❑ **questions**
- ❑ **wrap up**

Agenda

TECHNIQUES

- ✓ **testing resource guards**
- ✓ **testing helper methods**
- ✓ **testing search**
- questions**
- wrap up**

Let Us Know What You Think

"Rate This" presentation to leave your feedback and help me do my work better.

The slide features a white background with a black vertical bar on the left and a blue abstract graphic on the right. At the top, the word "WEBINAR" is in orange, followed by "TESTING AT THE EDGES" in large, bold, dark blue letters. Below that, "FRANKLIN WEBBER" is in black, with "TRAINING AND TECHNICAL CONTENT LEAD" in smaller black text underneath. A small "CHEF" logo is at the bottom left. At the bottom, there are three buttons: "Ask a question", "Rate this", and "Details".

WEBINAR
TESTING AT THE EDGES

FRANKLIN WEBBER
TRAINING AND TECHNICAL CONTENT LEAD

CHEF

Ask a question Rate this Details

DISCUSSION



Q&A

What questions can I answer for you?

Agenda

TECHNIQUES

- ✓ **testing resource guards**
- ✓ **testing helper methods**
- ✓ **testing search**
- ✓ **questions**
- **wrap up**

Check The Attachments

All of the resources I am going to provide
you can be found under "**Attachments**".



Presentation Resources

Slides

https://github.com/chef-training/webinars/raw/master/testing_at_the_edges.pdf

Example Cookbook

https://github.com/chef-training/testing_at_the_edges-repo

RSpec Resources

ChefSpec

<https://github.com/sethvargo/chefspec>

Stubbing Commands

<https://github.com/sethvargo/chefspec#command>

Stubbing Search

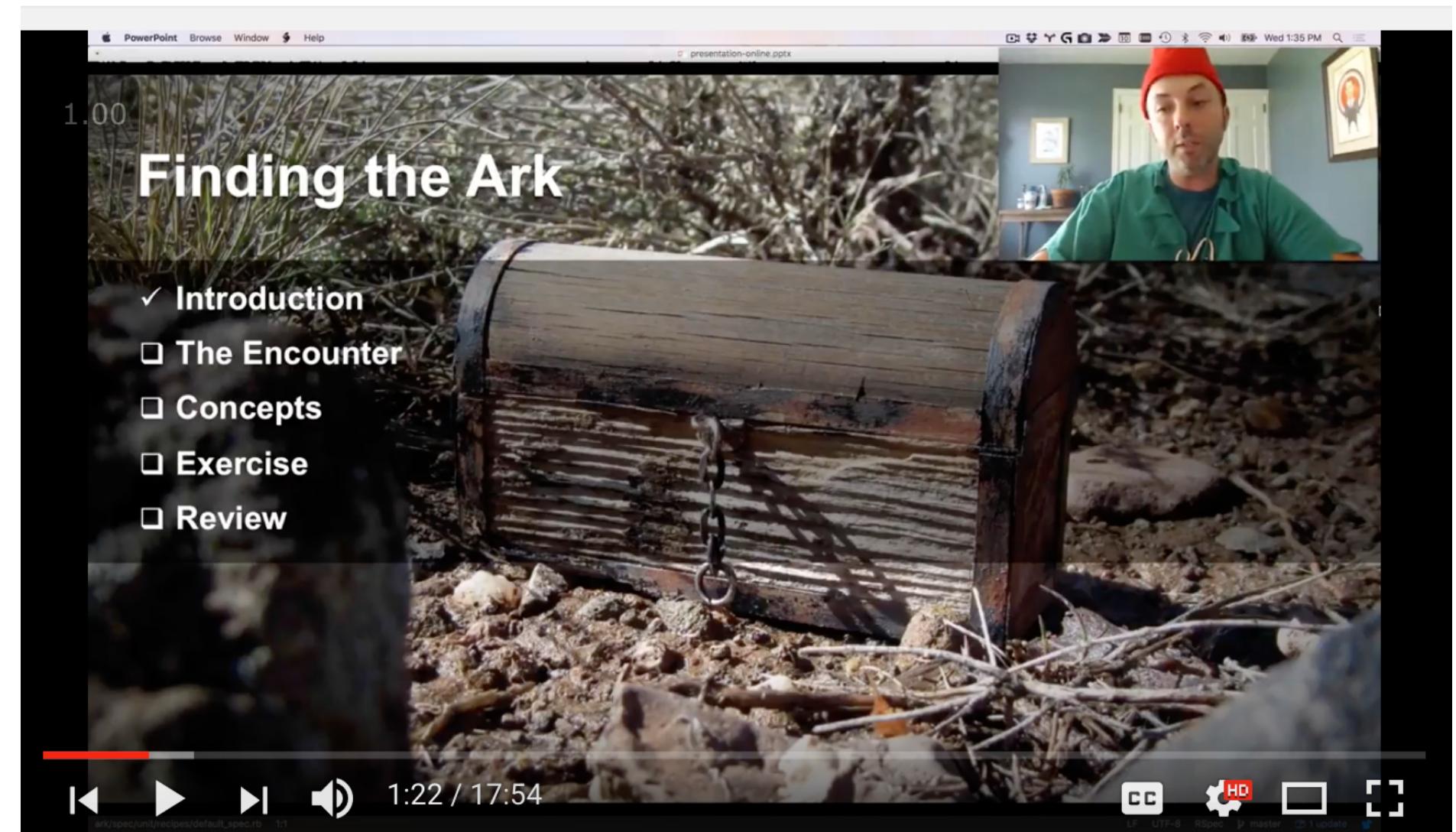
<https://github.com/sethvargo/chefspec#search>

<https://github.com/sethvargo/chefspec#dsl>

Advanced Dungeons and Testing Dragons

This adventure will test your mettle as we delve through these dark corners of cookbook development.

<https://goo.gl/Qo2MfV>



Agenda

TECHNIQUES

- ✓ **testing resource guards**
- ✓ **testing helper methods**
- ✓ **testing search**
- ✓ **questions**
- ✓ **wrap up**



CHEF™