

An Introduction to Ember 2 with Ember CLI

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About Me

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Agenda

- What is Ember?
- Why Ember?
- Installing Ember CLI
- Getting Started
- Demo
- Resources

What is Ember?

- An **opinionated** JavaScript framework
 - Ember, Ember Data, Ember CLI
- Most often compared to Angular, Backbone, and React

Why Ember?

- Convention over configuration => large teams, on-boarding
- Focus on the app and solve the interesting problems
- Stability without stagnation
- Ember CLI => Build process, generators, ES6
- Ember Data
- Testing

Installing Ember CLI

- Node CLI for building Ember applications
- Install without sudo
- Installs Ember & Ember Data 1.13.8
- Broccoli browser compilation library

```
$ npm install -g ember-cli  
  
# npm config set prefix ~/npm  
# PATH=$PATH:$HOME/npm/bin
```

Getting Started

- Scaffolding
- Live reload
- ES6
- Bower and NPM
- JSHint
- Tests

```
$ ember new codecamp2015  
$ cd codecamp2015  
$ ember server
```

```
$ ember --help  
$ ember new --help  
$ ember generate --help
```

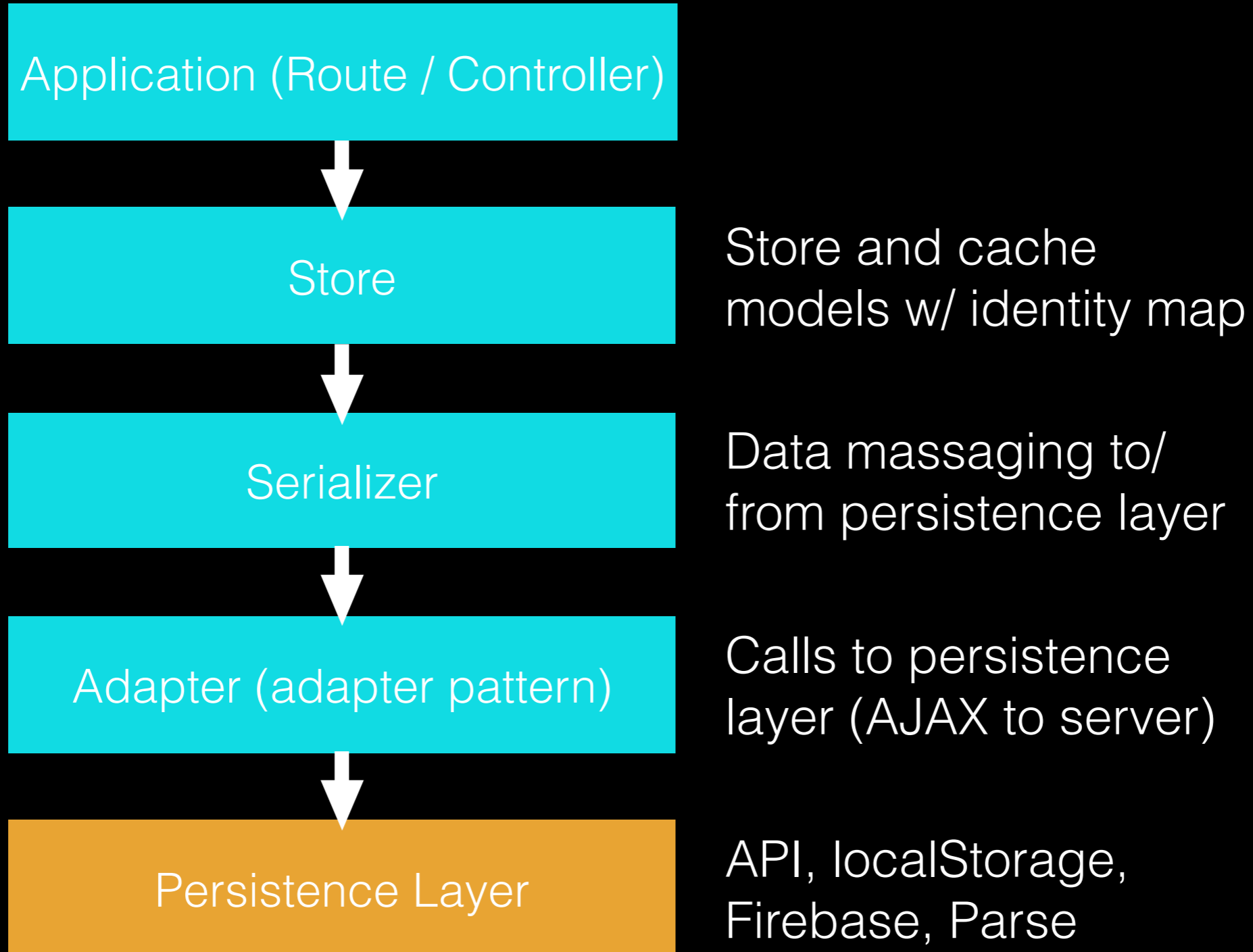
Demo

- Handlebars templates
- Routing
- Models, Adapters, Serializers
- Components
- Helpers
- Controllers
- Computed Properties and Macros

The screenshot displays a web application interface. At the top, it says "Welcome to myTunes". On the left, there is a vertical list of artist names: The Offspring, Pennywise, Eminem, Avicii, Krewella, Limp Bizkit, Korn, Atlas Genius, Lorde, Nirvana, Portugal. The Man, Imagine Dragons, Staind, and Pink. On the right, under the heading "Songs by Pennywise", there are four song cards. Each card shows the song title, price, play count, and a "Like" button with a heart icon.

Artist	Song Title	Price	Play Count	Like
Pennywise	Victim of Reality	\$0.99	3	Like
Pennywise	Alien	\$1.29	0	Like
Pennywise	My Own Way	\$25.65	0	Like
Pennywise	Society	\$1.69	0	Like

Ember Data



Ember Data Caching



Stale data? ... NO!

```
makeBackgroundRequest().then(() => {  
  if (recordHasBeenUpdated) {  
    updateRecord();  
    updateTemplate();  
  }  
});
```

Computed Properties

```
Person = Ember.Object.extend({
  fullName: Ember.computed('firstName', 'lastName', function() {
    return `${this.get('firstName')} ${this.get('lastName')}`;
  })
});

var ironMan = Person.create({
  firstName: 'Tony',
  lastName: 'Stark'
});

ironMan.get('fullName'); // "Tony Stark"
```

Resources

- Ember Guides
- Rock and Roll with Ember ebook - paid
- Ember 101 (formerly Ember CLI 101) - free
- discuss.emberjs.com
- Deliver Audacious Web Apps with Ember 2
- Testing in Ember with Ember CLI
 - <https://www.codementor.io/ember-js/tutorial/testing-emberjs-with-ember-cli>

Thank you,

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