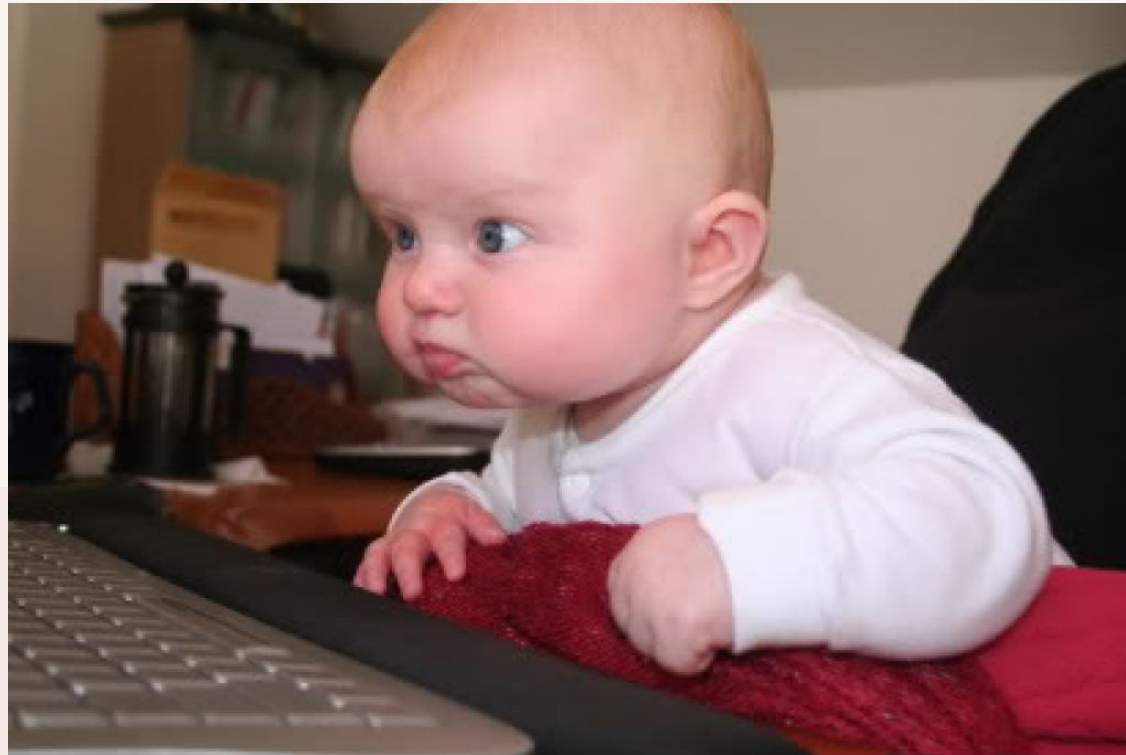


# Ember.js

## Enterprise Application Framework

Heather Brysiewicz / @caligoanimus





**sandiego.js**

# MEETUPS AROUND THE WORLD

There are a number of different Ember.js meetups around the world. Going to a meetup is a great way to learn more about Ember.js and meet other developers.

## UNITED STATES

Atlanta, GA  
Austin, TX  
Boston, MA  
Chicago, IL  
Cincinnati, OH  
Dallas, TX  
Denver, CO  
Indianapolis, IN  
Minneapolis / St. Paul, MN  
New York, NY  
Orlando, FL  
Philadelphia, PA  
Pittsburgh, PA  
Portland, OR  
Salt Lake City, UT  
San Francisco, CA  
Seattle, WA  
Southern California, CA  
St. Louis, MO  
Washington, DC

## WORLDWIDE

Adelaide, Australia  
Amsterdam, the Netherlands  
Bangalore, India  
Barcelona, Spain  
Belo Horizonte, Brazil  
Berlin, Germany  
Brussels, Belgium  
Budapest, Hungary  
Dublin, Ireland  
Göteborg, Sweden  
Kyiv, Ukraine  
London, UK  
Melbourne, Australia  
Montevideo, Uruguay  
Munich, Germany  
Oslo, Norway  
Ottawa, Canada  
Paris, France  
San Juan, Puerto Rico  
São Paulo, Brazil  
Tel Aviv, Israel  
Tokyo, Japan  
Toronto, Canada  
Vancouver, BC  
Wellington, New Zealand  
Zürich, Switzerland



# Who is using Ember.js?

The screenshot shows the Ember.js website header with the logo and navigation links: ABOUT, GUIDES, API, COMMUNITY, BLOG, BUILDS. A search bar and a 'FORK US!' button are also visible. Below the header, the text 'SEE WHO'S USING EMBER.JS' is displayed. A grid of 18 logos follows, arranged in 6 rows and 3 columns. The logos are: MHElabs, Yapp, TILDE, YAHOO!, zendesk, Square, Discourse, ADDEPAR, livingsocial, Groupon, TIMBUK2 SAN FRANCISCO, benefitcloud., topicus, Gemfury, batterii, and Instagrille, BLUETUBE INTERACTIVE, mashape.

SEE WHO'S USING EMBER.JS

- MHElabs
- Yapp
- TILDE
- YAHOO!
- zendesk
- Square
- Discourse
- ADDEPAR
- livingsocial
- Groupon
- TIMBUK2<sup>®</sup> SAN FRANCISCO
- benefitcloud.
- topicus
- Gemfury
- batterii
- Instagrille
- BLUETUBE INTERACTIVE
- mashape

[emberjs.com/ember-users](http://emberjs.com/ember-users)

# Who is using Ember.js?

## Built With Ember

Ambitious web applications built using [Ember.js](#).

Brought to you by [Blimp](#)

---

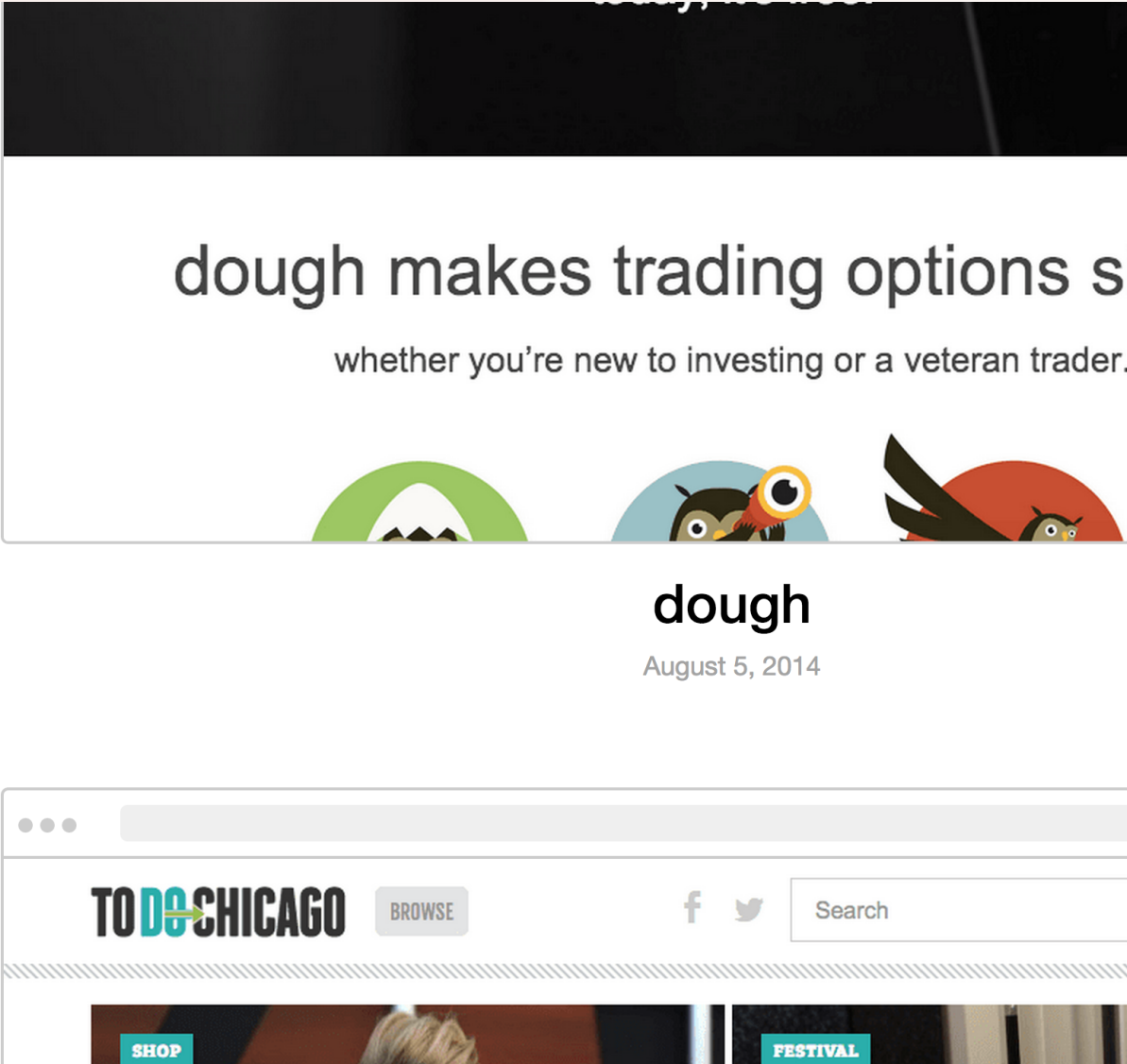
[Home](#)  
[About](#)  
[Submit a site](#)

---

[Subscribe](#)  
[Twitter](#)  
[RSS](#)

---

[Tweet](#)



The screenshot shows the homepage of the 'dough' website. The main heading reads 'dough makes trading options s' followed by the subtext 'whether you're new to investing or a veteran trader.' Below the text are three stylized owl illustrations. The site name 'dough' is prominently displayed, with the date 'August 5, 2014' underneath. At the bottom, a browser window mockup shows the 'TO DO CHICAGO' logo, a 'BROWSE' button, social media icons for Facebook and Twitter, a search bar, and navigation buttons for 'SHOP' and 'FESTIVAL'.

[builtwithember.io](http://builtwithember.io)

QUALCOMM®  
YAHOO!®

NETFLIX

GROUPON

LIVE NATION  
ENTERTAINMENT®



Mc  
Graw  
Hill



heroku



DigitalOcean



Square



NBC NEWS

Vine



# So Why do these companies chose Ember.js?

App grows, complexity doesn't

Sam Mueller, Yahoo Ad-Manager Plus

Ember has the ability to manage the complexity of large applications and websites with grace

Jackie Hade, from Digitaria on Qualcomm

The fact that Ember is so opinionated... any Ember developer can look at any other Ember application and immediately have a huge benefit

Lance Harper, NBCNews

It Grows!



Opinionated = Performance + Productivity



# Evolution: Rise from the Ashes

Where did we come from?



## Ajax

DOM Selection and Traversing  
Events, Effects, and Animations  
Extensible



BACKBONE.JS

Lean MVC

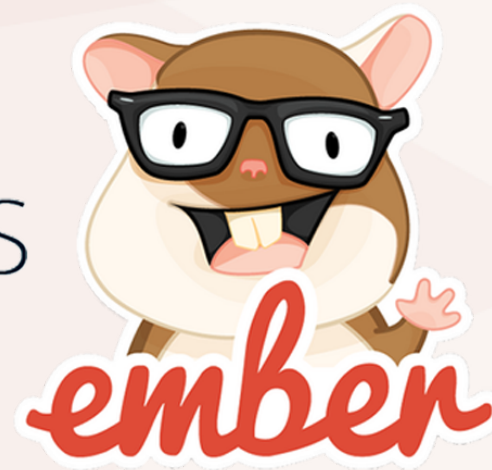
Small Footprint

Easy to Learn

Provides Basic Tools



BACKBONE.JS



Two-Way Binding  
Manages View Life-Cycle  
Automatic Creation  
Router  
Ember-Data  
Performance

# It's a Framework

Models\*

Router

Controllers

Views & Components

Templates



# Ember-CLI

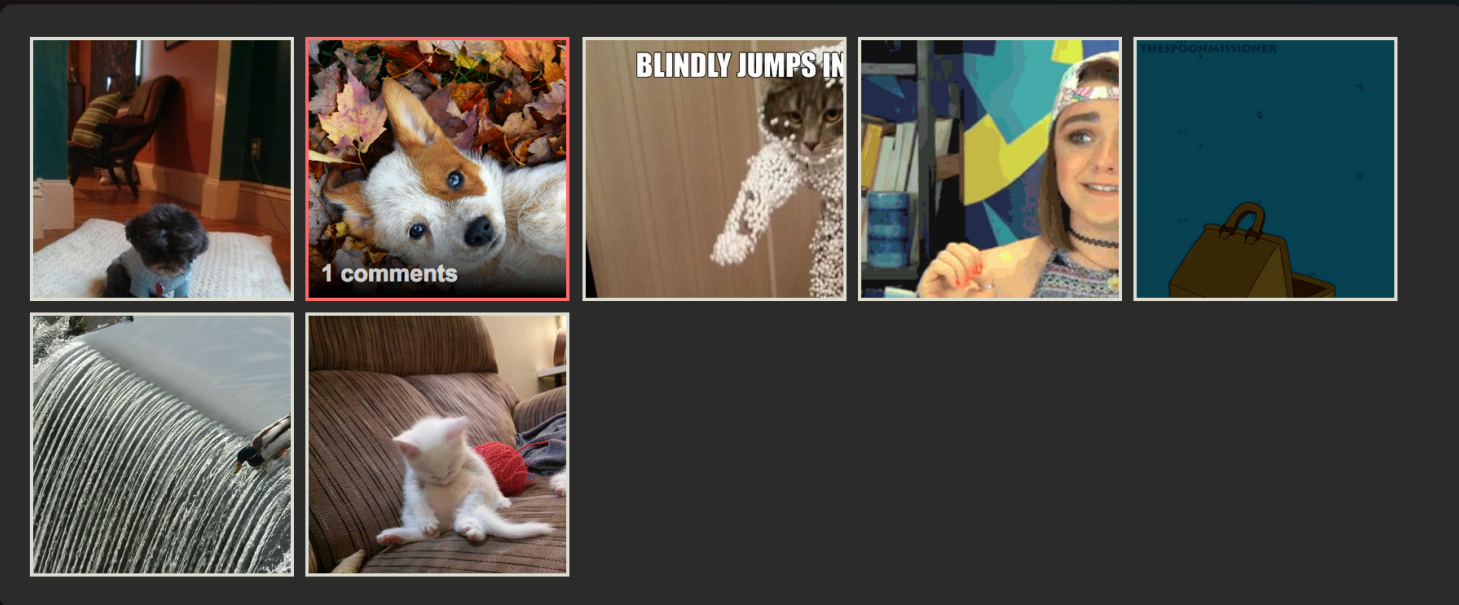
```
→ Code ember new sample-app
```

```
→ Code ember new sample-app
version: 0.1.1
installing
  create .bowerrc
  create .editorconfig
  create .ember-cli
  create .jshintrc
  create .travis.yml
  create Brocfile.js
  create README.md
  create app/app.js
  create app/components/.gitkeep
  create app/controllers/.gitkeep
  create app/helpers/.gitkeep
  create app/index.html
  create app/models/.gitkeep
  create app/router.js
  create app/routes/.gitkeep
  create app/styles/.gitkeep
  create app/styles/app.css
  create app/templates/.gitkeep
  create app/templates/application.hbs
  create app/templates/components/.gitkeep
  create app/views/.gitkeep
  create bower.json
  create config/environment.js
  create .gitignore
  create package.json
  create public/.gitkeep
  create public/crossdomain.xml
  create public/robots.txt
  create testem.json
  create tests/.jshintrc
  create tests/helpers/resolver.js
  create tests/helpers/start-app.js
  create tests/index.html
  create tests/test-helper.js
  create tests/unit/.gitkeep
  create vendor/.gitkeep
Installed packages for tooling via npm.
Installed browser packages via Bower.
Successfully initialized git.
→ Code
```



# Imgur Example

● Emgur



<b>URL</b>	/
<b>Template Path</b>	app/templates/application.hbs
<b>View Path</b>	app/views/application.js
<b>Controller Path</b>	app/controllers/application.js
<b>Route Path</b>	app/routes/application.js

URL

/

Template Path

app/templates/application.hbs

View Path

app/views/application.js

Controller Path

app/controllers/application.js

Route Path

app/routes/application.js

# Application Template

 app/templates/application.hbs

```
<header>
  {{#link-to 'index'}}
    <i class="fa fa-circle fa-emgur-logo"></i>
    Emgur
  {{/link-to}}
</header>

<div class="main-container">
  {{outlet}}
</div>
```

<b>URL</b>	/
<b>Template Path</b>	app/templates/index.hbs
<b>View Path</b>	app/views/index.js
<b>Controller Path</b>	app/controllers/index.js
<b>Route Path</b>	app/routes/index.js



URL

/

Template Path

app/templates/index.hbs

View Path

app/views/index.js

Controller Path

app/controllers/index.js

Route Path

app/routes/index.js

# Index Route

 app/routes/index.js

```
import Ember from 'ember';

export default Ember.Route.extend({
  model: function() {
    return this.store.find('gallery');
  }
});
```

## app/templates/index.hbs

```
<div class="container">
  {{#each}}
    {{image-thumb content=this}}
  {{/each}}
  <div class="clear"></div>
</div>
```

Template Path      app/templates/components/image-thumb.hbs

Component Path      app/components/image-thumb.js

## application

● Emgur

index

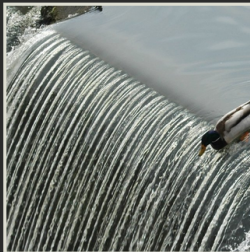
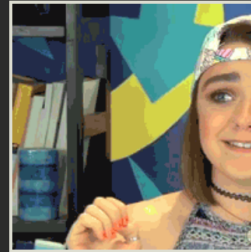
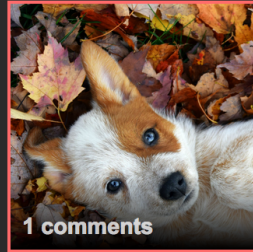
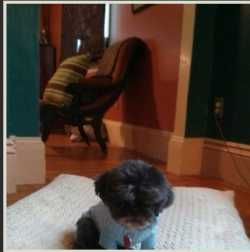
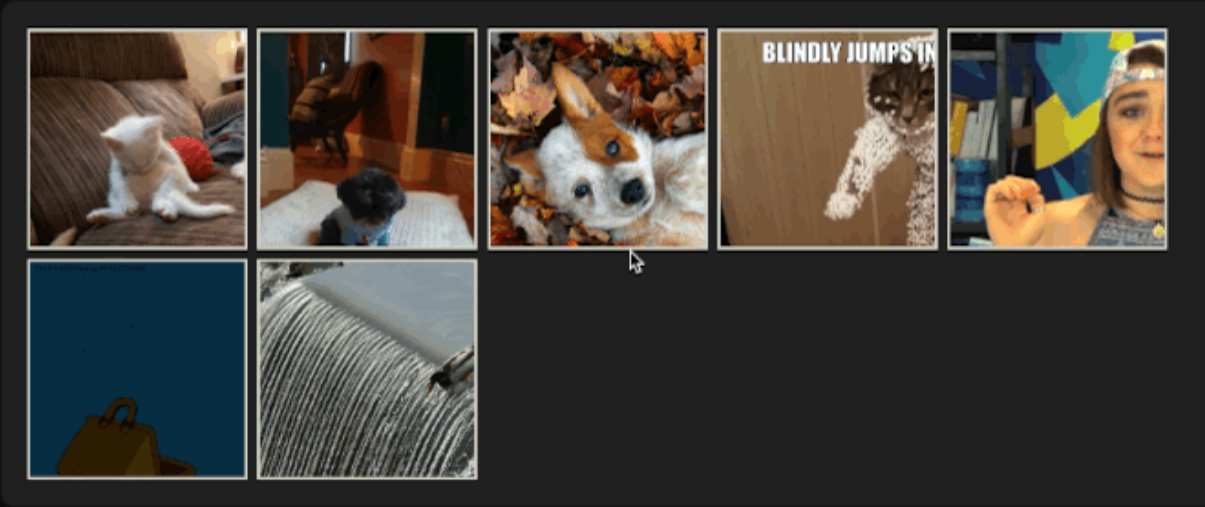


image-thumb  
component

● Emgur



:isHovering  
commentCount

# Image Thumbnail Component

 app/components/image-thumb.js

```
import Ember from 'ember';

export default Ember.Component.extend({
  isHovering: false,

  commentsCount: function() {
    return this.get('content.comments.length');
  }.property('content.comments'),

  mouseEnter: function() {
    this.set('isHovering', true);
  },

  mouseLeave: function() {
    this.set('isHovering', false);
  }
});
```

# Image Thumbnail Template

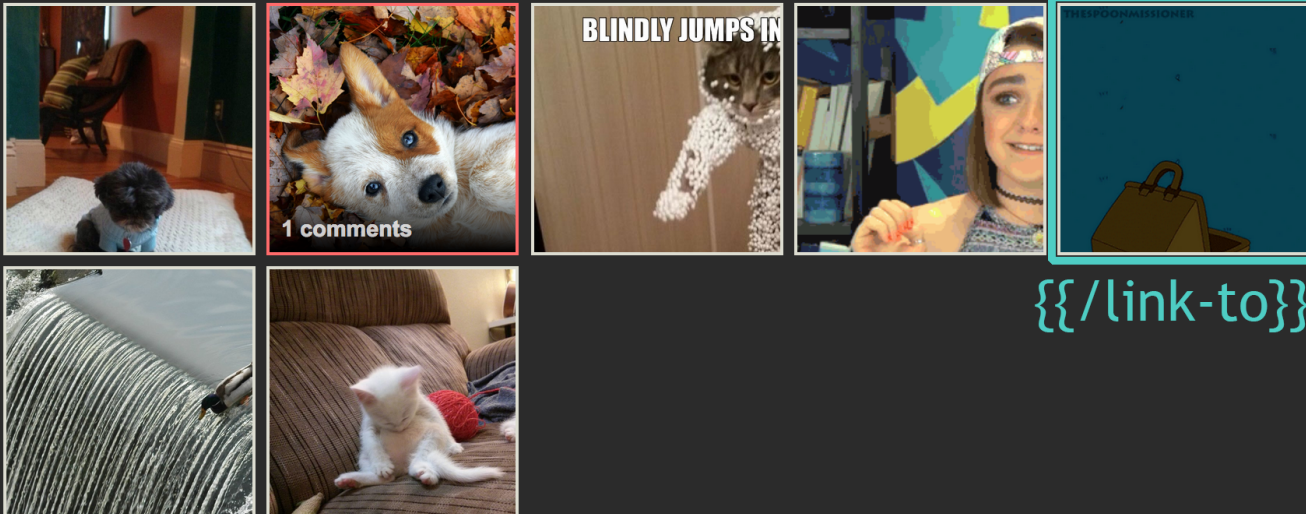
 app/templates/components/image-thumb.hbs

```
{{#link-to 'gallery' content}}
  <div class="image-item">
    <div class="image-thumb">
      <img {{bind-attr src=content.image.url}}>
    </div>
    {{#if isHovering}}
      <div class="image-details">
        <div class="image-comment">
          <div class="comment-count">{{commentsCount}} comments</div>
        </div>
      </div>
    {{/if}}
  </div>
{{/link-to}}
```

# Adding Routes

● Emgur


{{#link-to 'gallery' content}}



{{/link-to}}



# Define Routes

 app/router.js

```
import Ember from 'ember';
import config from './config/environment';

var Router = Ember.Router.extend({
  location: config.locationType
});

Router.map(function() {
  this.route('gallery', { path: '/gallery/:gallery_id' });
});

export default Router;
```

<b>URL</b>	<code>/gallery/:gallery_id</code>
<b>Template Path</b>	<code>app/templates/gallery.hbs</code>
<b>View Path</b>	<code>app/views/gallery.js</code>
<b>Controller Path</b>	<code>app/controllers/gallery.js</code>
<b>Route Path</b>	<code>app/routes/gallery.js</code>

URL	/gallery/:gallery_id
-----	----------------------

Template Path	app/templates/gallery.hbs
---------------	---------------------------

View Path	app/views/gallery.js
-----------	----------------------

Controller Path	app/controllers/gallery.js
-----------------	----------------------------

Route Path	app/routes/gallery.js
------------	-----------------------

● Emgur

## Foster puppy came to play in the leaves!

5 months ago



Submit a comment

8 days ago

I have a friend who started an animal rescue. Thought about doing a post for her and her organization. Anyone interested?

# Gallery Item Template

 app/templates/gallery.hbs

```
<div class="gallery-container">
  <div class="gallery-full">
    <div class="gallery-title">{{title}}</div>
    <div class="gallery-posted">{{postedFormatted}}</div>
    <div class="gallery-image">
      <img {{bind-attr src=image.url}}>
    </div>
  </div>

  <div class="gallery-comments">
    <div class="comment-new">
      {{#if isEditing}}
        {{focus-textarea value=newComment rows=3 focus-out='offEdit' action='s
        <div class="comment-button-container">
          <div class='save-button' {{action 'submitComment'}}>save</div>
          <div class="comment-length">{{newCommentCharacters}}</div>
        </div>
        <div class="clear"></div>
      {{else}}
        {{input placeholder='Submit a comment' focus-in='onEdit'}}
      {{/if}}
    </div>
    <ul class="gallery-comments-ul">
      {{#each comments}}
        <li class="gallery-comment">
          <div class="comment-posted">{{postedFormatted}}</div>
          <div class="comment-content">{{content}}</div>
        </li>
      {{/each}}
    </ul>
  </div>
</div>
```

# Gallery Item Template

 app/templates/gallery.hbs

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<div class="gallery-container">
  <div class="gallery-full">
    <div class="gallery-title">{{title}}</div>
    <div class="gallery-posted">{{postedFormatted}}</div>
    <div class="gallery-image">
      <img {{bind-attr src=image.url}}>
    </div>
  </div>

  <div class="gallery-comments">
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      {{#if isEditing}}
        {{focus-textarea value=newComment rows=3 focus-out='offEdit' action='submitComment'}}
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          <div class="comment-content">{{content}}</div>
        </li>
      {{/each}}
    </ul></div>
  </div>

  <!-- TODO -->
  <div class="gallery-navigation"></div>
```

# Gallery Item Template

 app/templates/gallery.hbs

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<div class="gallery-container">
  <div class="gallery-full">
    <div class="gallery-title">{{title}}</div>
    <div class="gallery-posted">{{postedFormatted}}</div>
    <div class="gallery-image">
      <img {{bind-attr src=image.url}}>
    </div>
  </div>

  <div class="gallery-comments">
    <div class="comment-new">
      {{#if isEditing}}
        {{focus-textarea value=newComment rows=3 focus-out='offEdit' action='submitComment'}}
        <div class="comment-button-container">
          <div class='save-button' {{action 'submitComment'}}>save</div>
          <div class="comment-length">{{newCommentCharacters}}</div>
        </div>
        <div class="clear"></div>
      {{else}}
        {{input placeholder='Submit a comment' focus-in='onEdit'}}
      {{/if}}
    </div>
    <ul class="gallery-comments-ul">
      {{#each comments}}
        <li class="gallery-comment">
          <div class="comment-posted">{{postedFormatted}}</div>
          <div class="comment-content">{{content}}</div>
        </li>
      {{/each}}
    </ul></div>
  </div>

  <!-- TODO -->
  <div class="gallery-navigation"></div>
</div>
```

# Gallery Item Template

 app/templates/gallery.hbs

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    <div class="gallery-image">
      <img {{bind-attr src=image.url}}>
    </div>
  </div>

  <div class="gallery-comments">
    <div class="comment-new">
      {{#if isEditing}}
        {{focus-textarea value=newComment rows=3 focus-out='offEdit' action='submitComment'}}
        <div class="comment-button-container">
          <div class='save-button' {{action 'submitComment'}}>save</div>
          <div class="comment-length">{{newCommentCharacters}}</div>
        </div>
        <div class="clear"></div>
      {{else}}
        {{input placeholder='Submit a comment' focus-in='onEdit'}}
      {{/if}}
    </div>
    <ul class="gallery-comments-ul">
      {{#each comments}}
        <li class="gallery-comment">
          <div class="comment-posted">{{postedFormatted}}</div>
          <div class="comment-content">{{content}}</div>
        </li>
      {{/each}}
    </ul></div>
  </div>

  <!-- TODO -->
  <div class="gallery-navigation"></div>
</div>
```



# Gallery Item Template

 app/templates/gallery.hbs

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<div class="gallery-container">
  <div class="gallery-full">
    <div class="gallery-title">{{title}}</div>
    <div class="gallery-posted">{{postedFormatted}}</div>
    <div class="gallery-image">
      <img {{bind-attr src=image.url}}>
    </div>
  </div>

  <div class="gallery-comments">
    <div class="comment-new">
      {{#if isEditing}}
        {{focus-textarea value=newComment rows=3 focus-out='offEdit' action='submitComment'}}
        <div class="comment-button-container">
          <div class='save-button' {{action 'submitComment'}}>save</div>
          <div class="comment-length">{{newCommentCharacters}}</div>
        </div>
        <div class="clear"></div>
      {{else}}
        {{input placeholder='Submit a comment' focus-in='onEdit'}}
      {{/if}}
    </div>
    <ul class="gallery-comments-ul">
      {{#each comments}}
        <li class="gallery-comment">
          <div class="comment-posted">{{postedFormatted}}</div>
          <div class="comment-content">{{content}}</div>
        </li>
      {{/each}}
    </ul></div>
  </div>

  <!-- TODO -->
  <div class="gallery-navigation"></div>
```

# Gallery Item Controller

 app/controllers/gallery.js

```
import Ember from 'ember';

export default Ember.ObjectController.extend({
  maxChars: 140,
  isEditing: false,
  newComment: null, // bound to value of textarea

  postedFormatted: function() {
    return moment(this.get('posted')).fromNow();
  }.property('posted'),

  newCommentCharacters: function() {
    return this.maxChars - this.get('newComment.length');
  }.property('newComment'),

  actions: {
    onEdit: function() {
      this.set('isEditing', true);
    },

    offEdit: function() {
      if (this.get('newCommentCharacters') === this.maxChars) {
        this.set('isEditing', false);
      }
    },

    submitComment: function() {
      var _this = this;
```

That's all you need to get started with

*ember*

Get Involved!



Community



#emberjs

Thanks!

 [hbryśiewicz.github.io](https://github.com/hbryśiewicz)

 [@caligoanimus](https://twitter.com/caligoanimus)

**sandiego.js**