# Warming Up With ember.js

## Level 4 - Acorn Models and Pinecone Data

Related models

# Review

app.js

```
App.Product = DS.Model.extend({
  title: DS.attr('string'),
  price: DS.attr('number'),
  description: DS.attr('string'),
  isOnSale: DS.attr('boolean'),
  image: DS.attr('string')
});

App.ProductsRoute = Ember.Route.extend({
  model: function() {
    return this.store.findAll('product');
  }
});
```

What if our products had reviews?

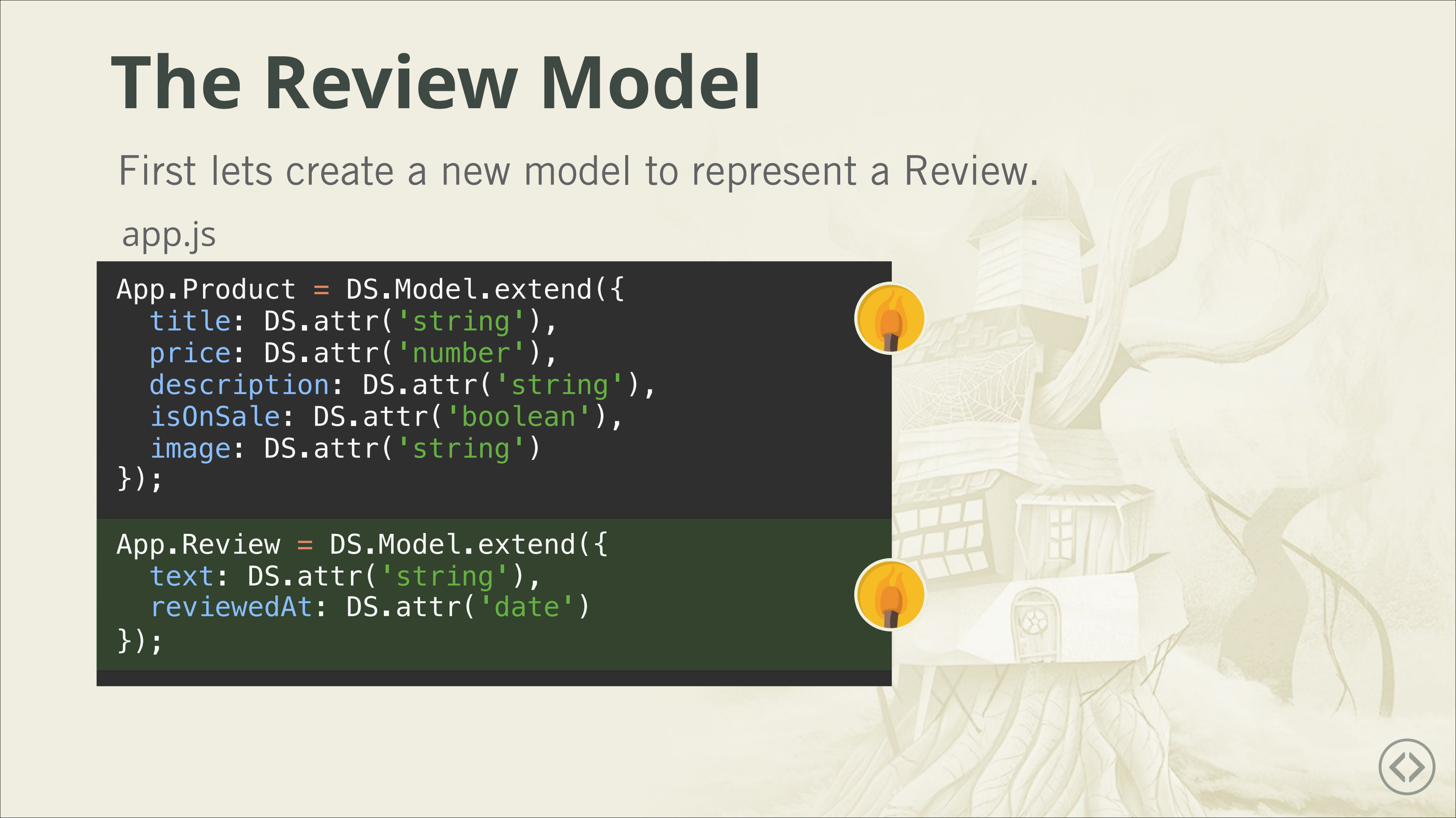
# The Review Model

First lets create a new model to represent a Review.

app.js

```
App.Product = DS.Model.extend({
  title: DS.attr('string'),
  price: DS.attr('number'),
  description: DS.attr('string'),
  isOnSale: DS.attr('boolean'),
  image: DS.attr('string')
});

App.Review = DS.Model.extend({
  text: DS.attr('string'),
  reviewedAt: DS.attr('date')
});
```



# Create Associations

app.js

```
App.Product = DS.Model.extend({
  title: DS.attr('string'),
  price: DS.attr('number'),
  description: DS.attr('string'),
  isOnSale: DS.attr('boolean'),
  image: DS.attr('string')
  reviews: DS.hasMany('review', {async: true})
});

App.Review = DS.Model.extend({
  text: DS.attr('string'),
  reviewedAt: DS.attr('date')
  product: DS.belongsTo('product')
});
```

Allows reviews to be lazy loaded

# Creating our Review Fixtures

We'll use higher IDs so we can differentiate them

app.js

```
App.Review.FIXTURES = [
  { id: 100,
    text: "Started a fire in no time!"
  },
  { id: 101,
    text: "Not the brightest flame, but warm!"
  }
];
```

# Mapping Reviews to a Product

app.js

```
App.Review.FIXTURES = [
  { id: 100,
    product: 1,
    text: "Started a fire in no time!"
  },
  { id: 101,
    product: 1,
    text: "Not the brightest flame, but warm!"
  }
];
```

# Mapping a Product to Reviews

app.js

```
App.Product.FIXTURES = [
 {  id: 1,
    title: 'Flint',
    price: 99,
    description: 'Flint is…',
    isOnSale: true,
    image: 'flint.png',
    reviews: [100,101]
  }
];
```

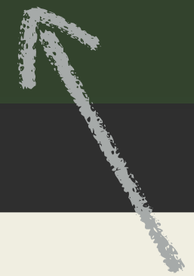
Need to use an array to list out all reviews

# Loop Over All Reviews

index.html

```
<script type="text/x-handlebars" data-template-name='product'>
  <h1>{{title}}</h1>
  <p>{{description}}</p>
  <p>Buy for ${{price}}</p>

  <h3>Reviews</h3>
  <ul>
    {{#each review in reviews}}
      <li>{{review.text}}</li>
    {{/each}}
  </ul>
</script>
```



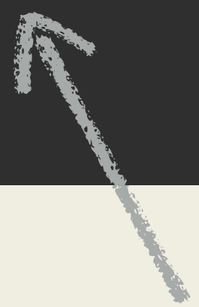
Loop over all reviews and display them

# Easier Loop Variables

index.html

```
<script type="text/x-handlebars" data-template-name='product'>
  <h1>{{title}}</h1>
  <p>{{description}}</p>
  <p>Buy for ${{price}}</p>

  <h3>Reviews</h3>
  <ul>
    {{#each reviews}}
      <li>{{text}}</li>
    {{/each}}
  </ul>
</script>
```



Within the loop, you can reference the current review

# Loops With {{else}}

index.html

```
<script type="text/x-handlebars" data-template-name='product'>
  <h1>{{title}}</h1>
  <p>{{description}}</p>
  <p>Buy for ${{price}}</p>

  <h3>Reviews</h3>
  <ul>
    {{#each reviews}}
      <li>{{text}}</li>
    {{else}}
      <li><p class='text-muted'>
        <em>No reviews yet. Be the first to write one!</em>
      </p></li>
    {{/each}}
  </ul>
</script>
```

Add a default for when there are no reviews

The Flint & Flame

localhost:3000/#/products/1

Flint & Flame

Home About Products

Flint

Kindling

# Flint

## $99

Flint is a hard, sedimentary cryptocrystalline form of the mineral quartz, categorized as a variety of chert.

## Reviews

- Started a fire in no time!
- Not the brightest flame, but warm!

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Credits

The Flint & Flame

localhost:3000/#/products/2

Flint & Flame

Home About Products

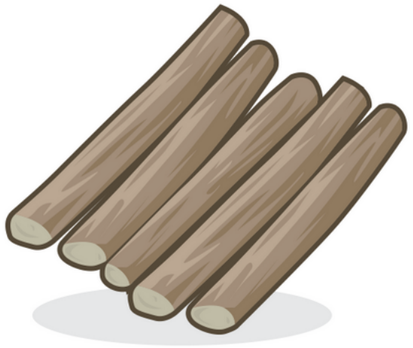
Flint

Kindling

# Kindling

**$249**

Easily combustible small sticks or twigs used for starting a fire.



## Reviews

- *No reviews yet. Be the first to write one!*

---

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Credits

# Switching to REST

```
App.ApplicationAdapter = DS.RESTAdapter.extend();
```

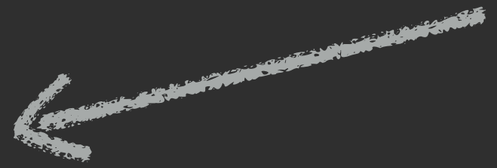
Let's switch our application adapter back to REST

The Flint & Flame
localhost:3000/#/products/
Ember Data hit the /products URL to get JSON data for our products route
Elements
Resources
Network
Sources
Timeline
Profiles
ember-1.0.0.js?body=1:394
DEBUG: jQuery.VERSION : 1.10.2
ember-1.0.0.js?body=1:394
DEBUG: ----------
ember-1.0.0.js?body=1:394
GET http://localhost:3000/products 404 (Not Found)
<top frame>
3
11

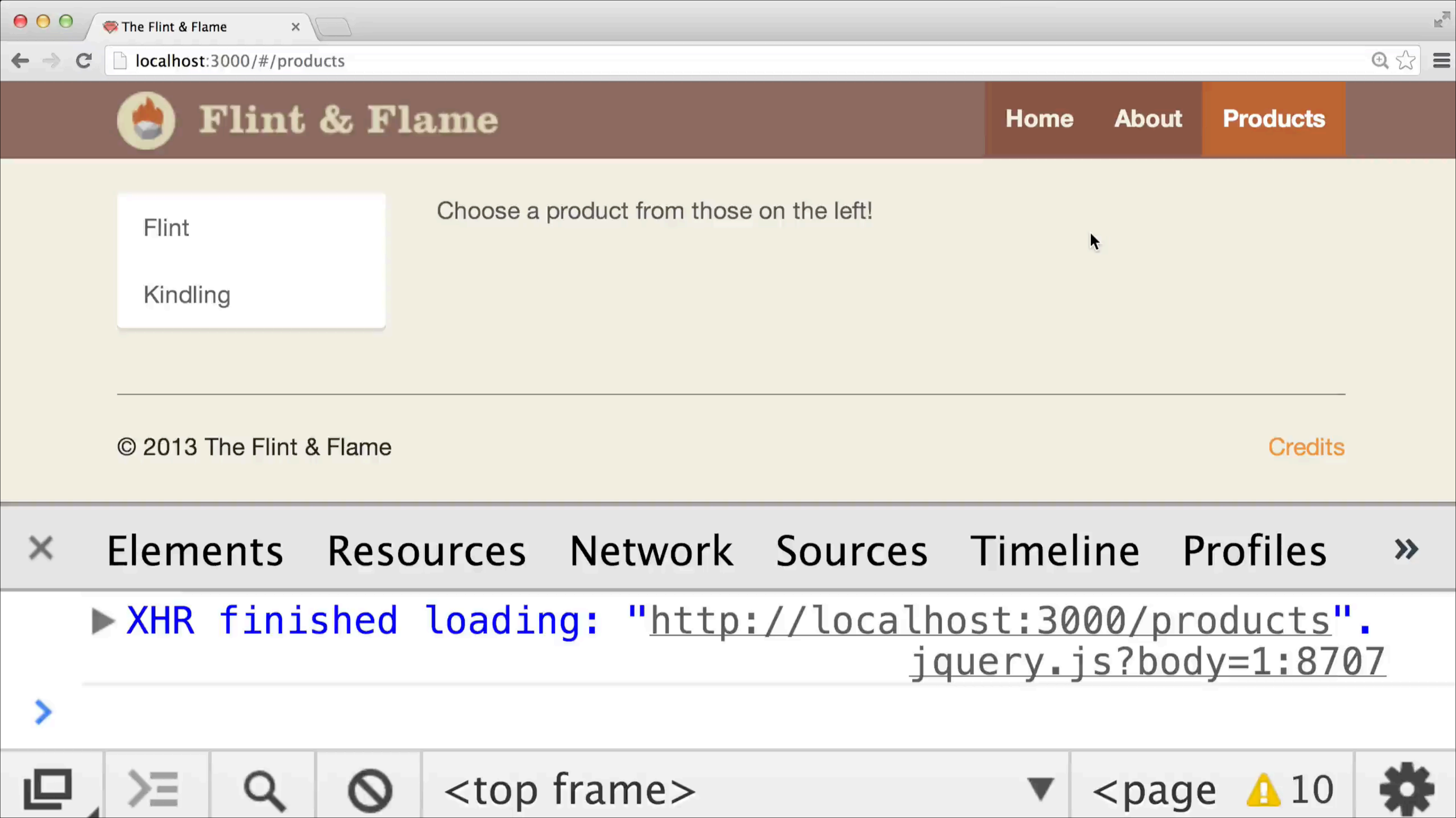
# Asynchronous JSON

http://example.com/products

```
{ "products": [
    {
      "id": 1,
      "title": "Flint",
      "price": 99,
      "description": "Flint is…",
      "isOnSale": true,
      "image": "/assets/products/flint.png",
      "reviews": [100,101]
    }, { … }
  ],
  "reviews": [
    { "id": 100, "product": 1, "text": "Started a fire in no time!" }, …
  ]
}
```



This JSON file could be generated or hardcoded


The Flint & Flame
localhost:3000/#/products
Flint & Flame
Home
About
Products
Flint
Kindling
Choose a product from those on the left!
© 2013 The Flint & Flame
Credits
Elements
Resources
Network
Sources
Timeline
Profiles
XHR finished loading: "http://localhost:3000/products".
jquery.js?body=1:8707
<top frame>
<page
10