

<SELECT>ING GOOD EMBER PATTERNS

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front-end engineer / **TED**

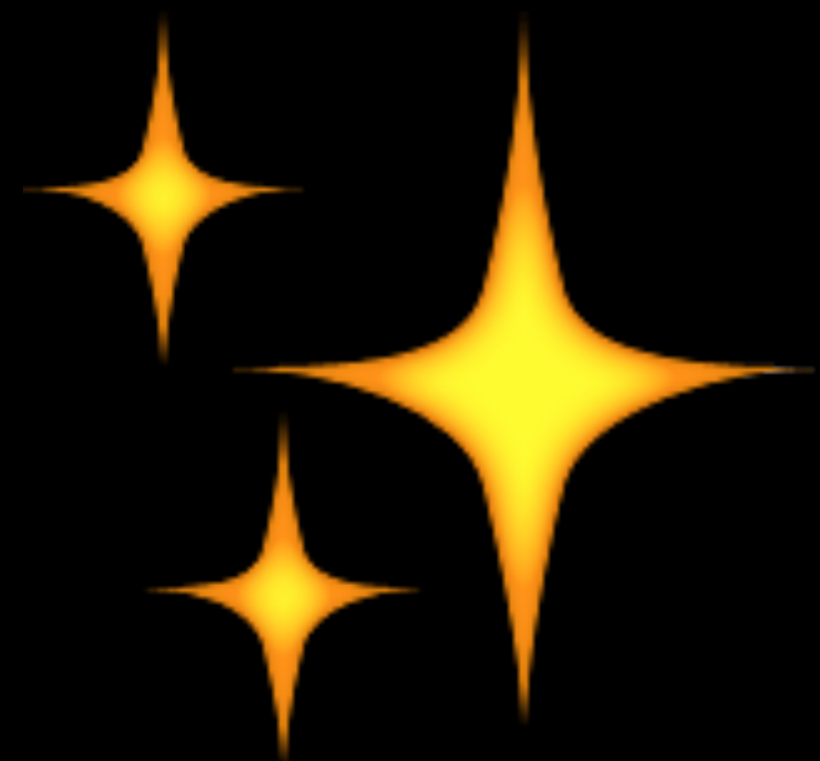
<select>



<select>


```
{{view "select"  
  content=options  
  value=selectedOption}}}
```

<SELECT> C. 2015



Select an option 



BEWARE OF MAGIC


2-WAY BINDING


2-WAY BINDING

All teams




2-WAY BINDING?

Topics 

Languages 

Active filters:

technology 

Clear

WHERE'S
THE DOM?

“A SIMPLE APPROACH” FOR DISABLED OPTIONS

```
Ember.SelectOption.reopen({  
  attributeBindings: ['value', 'selected', 'disabled'],  
  
  disabled: function() {  
    var content = this.get('content');  
    return content.disabled || false;  
  }.property('content'),  
});
```



“Select elements
will be the death
of me.”

JUNE 2015

“🔥 ceremonial
burning of the
{{view "select"}}
helper 🔥”

OCTOBER 2015

<SELECT>
THE BETTER
WAY

1. REAL HTML
2. DATA DOWN,
ACTIONS UP
3. COOL NEW
EMBER FEATURES

NOW WITH MORE HTML

```
<select>
  <option value="">select an option</option>

  {{#each languages as |language|}}
    <option value={{language.code}}>
      {{language.name}}
    </option>
  {{/each}}

</select>
```

DATA DOWN,
ACTIONS UP

(DDAU)

DATA-DOWN, ACTIONS UP



initial selection

A light gray rectangular button with rounded corners. It contains the text "Select an option" in a dark gray sans-serif font, followed by a small, dark gray downward-pointing arrow icon.

onchange event



ACTIONS-UP

```
<select onchange={{action "languageDidChange"
value="target.value"}}>
```

```
<option value="">select an option</option>
```

```
{{#each languages as |language|}}
  <option value={{language.code}}>
    {{language.name}}
  </option>
{{/each}}
```

```
</select>
```

ACTIONS-UP


```
// controller.js
```

```
actions: {  
  languageDidChange(value) {  
    this.set('selectedLanguageCode', value);  
  }  
},
```

```
selectedLangaugeCode: null
```


ACTIONS UP

Selected:

select an option 

DATA-DOWN

```
<select onchange={{action "languageDidChange"
value="target.value"}}>
  <option value="">select an option</option>

  {{#each languages as |language|}}
    <option
      value={{language.code}}
      selected={{is-equal language selectedLanguage}}>
      {{language.name}}
    </option>
  {{/each}}

</select>
```

DATA-DOWN

```
<select onchange={{action "languageDidChange"
value="target.value"}}>
  <option value="">select an option</option>

  {{#each languages as |language|}}
    <option
      {{bind-attr
        value="language.code"
        selected="-\_(\' )_/_-"}}>
      {{language.name}}
    </option>
  {{/each}}
```

DYNAMIC ATTRIBUTES

as of Ember 1.10, `bind-attr` deprecated in 1.13

DATA-DOWN, ACTIONS UP

Initial selection: en

Selected:

English



DISABLED OPTIONS

```
// models/fruit.js
```

```
export default DS.Model.extend({  
  name: DS.attr('string'),  
  colour: DS.attr('string'),  
  
  isYellow: Ember.computed.equal('colour', 'yellow')  
});
```

DISABLED OPTIONS

```
<select onchange={{action 'fruitDidChange' value='target.value'}}>
  <option value="">select an option</option>

  {{#each fruits as |fruit|}}
    <option
      disabled={{fruit.isYellow}}
      selected={{is-equal fruit initialSelection}}
      value={{fruit.id}}>
      {{fruit.name}}
    </option>
  {{/each}}

</select>
```

DISABLED OPTIONS

select an option ↕



FLEXIBLE :))

REUSABLE :((

COMPONENTS



<SELECT> COMPONENT, ACTIONS-UP

```
// components/fruit-select.hbs
```

```
<select onchange={{action 'fruitDidChange' value='target.value'}}>
```

```
// components/fruit-select.js
```

```
actions: {  
  fruitDidChange(value) {  
    this.sendAction('fruitDidChange', selection);  
  }  
}
```

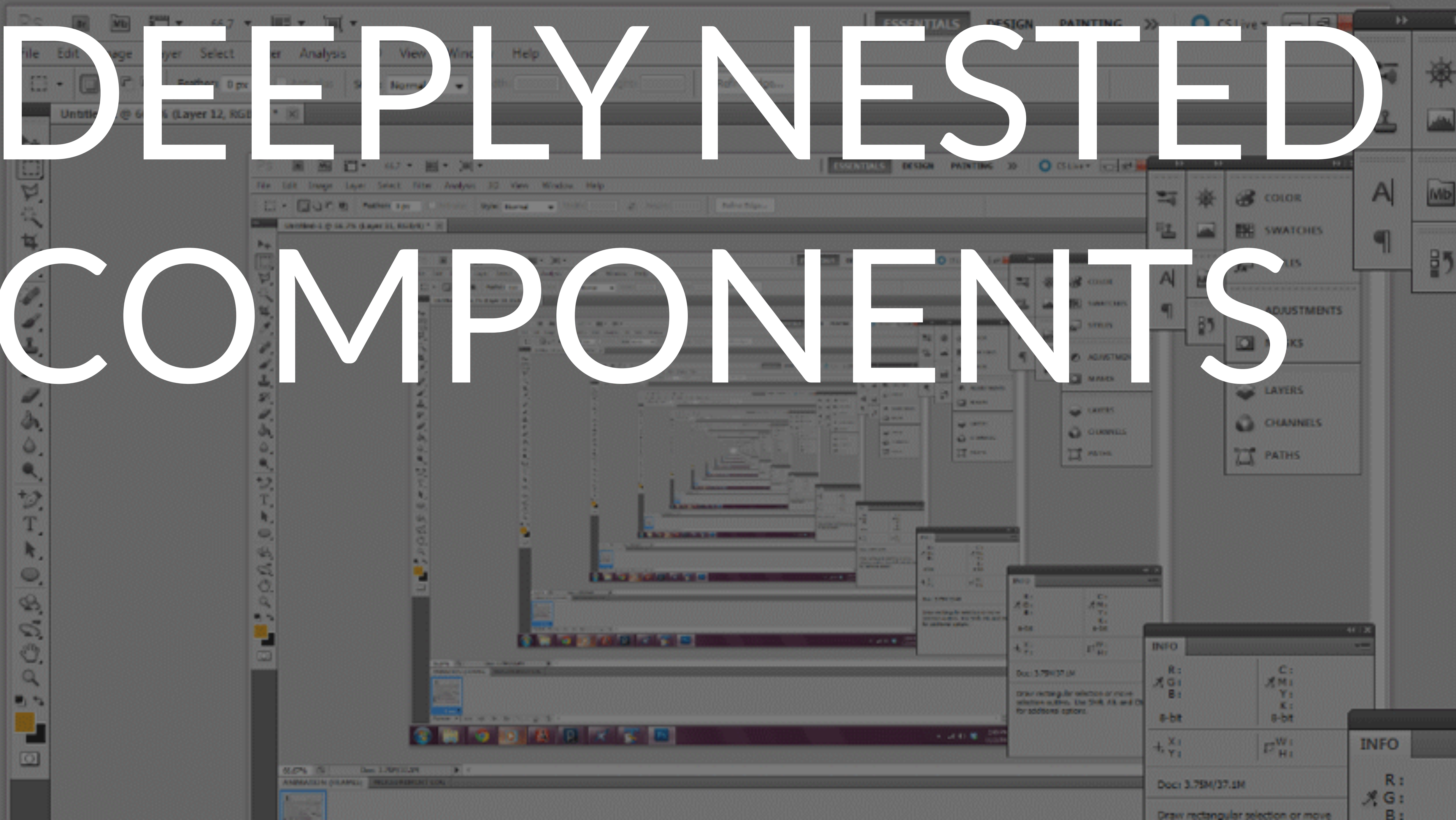
```
// templates/some-route.hbs
```

```
{{fruit-select fruitDidChange="fruitDidChange"}}
```

```
// controllers/some-route.js
```

```
actions: {  
  fruitDidChange(value) { // deal with it }  
}
```


DEEPLY NESTED COMPONENTS



BUBBLING ACTIONS

```
// components/nested-component.js
// components/nested-com actions: {
actions: {
    fruitDidChange(value) {
        fruitDidChange(value)      this.addAction('fruitDidChange'); nested-component.js
        this.addAction('fru      }
    }
}                                     // components/nested-component.js
// components/nested-component.js
actions: {
    fruitDidChange(value)      fruitDidChange(value) {
        this.addAction('f      this.addAction('fruitDidChange');
    }
}
// compon
actions: {
    fruitDidChange(value) {
        this
    }
}
// components/neste actions: {
actions: {
    fruitDidChange(va      this.addAction('fruitDidChange'); lue) {
        this.addAction      ('fruitDidChange');
    }
}
```

CLOSURE ACTIONS

available in Ember 1.13 and up

CLOSURE ACTIONS

```
// components/fruit-select.hbs
```

```
<select onchange={{action onchange value='target.value'}}>
```

```
// components/fruit-select.js
```

```
actions: {
```

```
  // nothing to see here
```

```
}
```

```
// templates/some-route.hbs
```

```
{{fruit-select onchange=(action "updateFruit")}}
```

```
// controllers/some-route.js
```

```
actions: {
```

```
  updateFruit(fruit) { // deal with it }
```

```
}
```

CLOSURE ACTIONS

```
// components/fruit-select.hbs
```

```
<select onchange={{action onchange value='target.value'}}>
```

```
// components/fruit-select.js
```

```
actions: {
```

```
  // nothing to see here
```

```
}
```

```
// components/grocery-order-form.hbs
```

```
{{fruit-select onchange=onchange}}
```

```
// templates/some-route.hbs
```

```
{{grocery-order-form onchange=(action "updateFruit")}}
```

```
// controllers/some-route.js
```

```
actions: {
```

```
  updateFruit(fruit) { // deal with it }
```

```
}
```

<SELECT> COMPONENT, DATA DOWN

```
// components/fruit-select.hbs
```

```
{{#each fruits as |fruit|}}
```

```
  <option
```

```
    disabled={{fruit.isYellow}}
```

```
    selected={{is-equal fruit selectedFruit}}
```

```
    value={{fruit.id}}>
```

```
    {{fruit.name}}
```

```
  </option>
```

```
{{/each}}
```

```
// components/grocery-order-form.hbs
```

```
{{fruit-select
```

```
  onChange=(action 'updateFruit')
```

```
  fruits=fruits
```

```
  selectedFruit=selectedFruit }}
```

<SELECT> COMPONENT, DATA DOWN

```
// components/fruit-select.hbs
```

```
{{#each fruits as |fruit|}}
```

```
  <option
```

```
    disabled={{fruit.isYellow}}
```

```
    selected={{is-equal fruit selectedFruit}}
```

```
    value={{fruit.id}}>
```

```
    {{fruit.name}}
```

```
  </option>
```

```
{{/each}}
```

```
// components/grocery-order-form.hbs
```

```
{{fruit-select
```

```
  onChange=(action 'updateFruit')
```

```
  fruits=fruits
```

```
  selectedFruit=selectedFruit
```

```
  disabledKey="isRed" }}
```

DYNAMIC KEY LOOKUP?

```
// components/fruit-select.hbs
```

```
{{#each fruits as |fruit|}}
```

```
  {{fruit-select-option
```

```
    fruit=fruit
```

```
    disabledKey=disabledKey
```

```
    selectedFruit=selectedFruit}}
```

```
{{/each}}
```

```
// components/fruit-select-option.js
```

```
tagName: 'option',
```

```
attributeBindings: ['value', 'disabled', 'selected'],
```

```
value: Ember.computed.alias('fruit.id'),
```

```
disabled: Ember.computed('fruit', 'disabledKey',
```

```
  function(){
```

```
    return Ember.get(this.get('fruit'), this.get('disabledKey'));
```

```
  }
```

```
),
```

```
selected: Ember.computed('selectedFruit', 'fruit',
```

```
  function(){
```

```
    return this.get('selectedFruit') === this.get('fruit');
```

```
  }
```

```
)
```


{{GET}} HELPER

available in Ember 2.1 and up

<SELECT> COMPONENT, DATA DOWN

```
// components/fruit-select.hbs
```

```
{{#each fruits as |fruit|}}
```

```
  <option
```

```
    disabled={{get fruit disabledKey}}
```

```
    selected={{is-equal fruit selectedFruit}}
```

```
    value={{fruit.id}}>
```

```
    {{fruit.name}}
```

```
  </option>
```

```
{{/each}}
```

```
// components/grocery-order-form.hbs
```

```
{{fruit-select
```

```
  onChange=(action 'updateFruit')
```

```
  fruits=fruits
```

```
  selectedFruit=selectedFruit
```

```
  disabledKey="isRed" }}
```



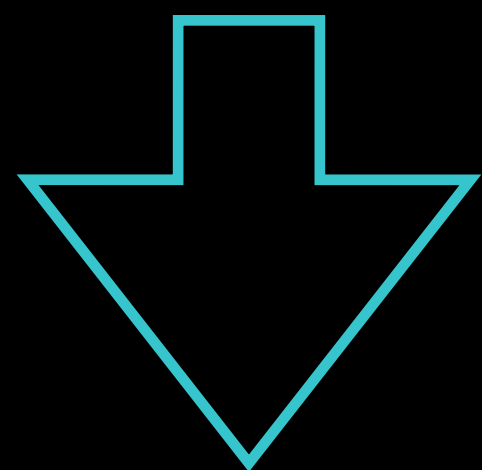

I WANT MY
2-WAY
BINDING

MUT HELPER

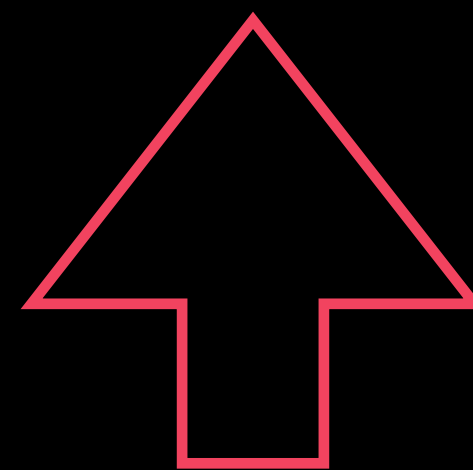
available in Ember 1.13 and up, 2-way bindings with closure actions

MUT HELPER

```
{{fruit-select  
  onchange=(action (mut selectedFruit))  
  fruits=fruits  
  selectedFruit=selectedFruit}}}
```



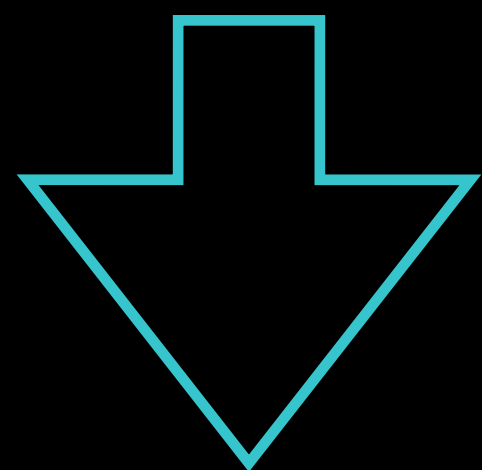
```
selectedFruit = {  
  id: 1,  
  name: 'banana',  
  color: 'yellow',  
}
```



```
selectedFruit = 2
```


MUT HELPER

```
{{fruit-select  
  onchange=(action (mut selectedFruit))  
  fruits=fruits  
  selectedFruit=selectedFruit}}}
```



```
selectedFruit = {  
  id: 1,  
  name: 'banana',  
  color: 'yellow',  
}
```



```
selectedFruit = {  
  id: 2,  
  name: 'blueberry',  
  color: 'blue'  
}
```

MUT HELPER

```
{{fruit-select
  onchange=(action (mut selectedFruit))
  fruits=fruits
  selectedFruit=selectedFruit}}
```

```
// components/fruit-select.hbs
```

```
<select onchange={{action 'fruitDidChange' value='target.value'}}>
```

```
// components/fruit-select.js
```

```
actions: {
  fruitDidChange(value) {
    let selection = this.get('fruits').findBy('id', +value);
    this.get('onchange')(selection);
  }
}
```

CHOOSE YOUR OWN BINDING ADVENTURE

```
{{fruit-select  
  onchange=(action 'updateFruit')  
  fruits=fruits  
  selectedFruit=selectedFruit}}}
```

initial selection: Banana

new selection:

```
{{fruit-select  
  onchange=(action (mut selectedFruit))  
  fruits=fruits  
  selectedFruit=selectedFruit}}}
```

selection: Banana

✓ CUSTOM HTML

✓ CUSTOM DATA FLOW

✓ DYNAMIC ATTRS,
CLOSURE ACTIONS,
{{GET}}, MUT

FLEXIBLE.

REUSABLE.

MODERN.



{{ted-select}}

<http://tedconf.github.io/ember-ted-select>

TED OPENSOURCE

GitHub

Ember

TEDSelect

A data down, actions up select component built with real DOM elements

Installation


```
ember install ember-ted-select
```

Features

`ember-ted-select` is a simple select element component that can do everything a native select element can do and more:

- disabled options
- multi-select
- custom prompt

EMBERJS.COM/BLOG



[About](#)

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[Builds](#)

RECENT POSTS

Ember Data v2.0 Released and v2.1 Beta Released

Ember Data v1.13 Released

The Ember 2.x Project

Ember Data v1.0.0-beta.19.1 Released

Ember Data v1.0.0-beta.19 Released

Another Ember 2.x Status Update

Ember Data v1.0.0-beta.17/18 Released

Ember.js 1.12 and 1.13 Beta (Glimmer!) Released

The Transition to Ember 2.0 in Detail

Glimmer's In Canary, Test Your Apps!

RELEASES

Ember Data 2.4 and 2.5 Beta Released

Ember.js 2.4 and 2.5 Beta Released

Ember.js 2.3 and 2.4 Beta Released

Security Releases - Ember 1.11.4, 1.12.2, 1.13.12, 2.0.3, 2.1.2, 2.2.1

Ember Data 2.3 and 2.4 Beta Released

EMBER.JS 2.4 AND 2.5 BETA RELEASED

POSTED BY: MATTHEW BEALE - FEB 29, 2016

Ember.js 2.4, a minor version release of Ember with backwards compatible changes, is released today. After an additional six-week maturation cycle as a stable release version, 2.4 will be declared Ember's first Long-Term Support (LTS) release. For more about the LTS process and what you should expect, see last week's post [Announcing Ember's First LTS Release](#).

Ember.js 2.5 beta, the branch of Ember that will be released as stable in roughly six weeks, is also being released today.

CHANGES IN EMBER.JS 2.4

No new features are added in Ember core in 2.4. Instead this release is primarily comprised of bugfixes making it an excellent LTS candidate. In general the core team and community have remained active around other highly visible parts of the Ember stack (Ember CLI, Ember Data, FastBoot, Glimmer, etc).

In six weeks, the current release build of 2.4 will become Ember's first LTS release. Builds on the LTS channel will receive critical bugfixes covering the subsequent six release cycles (~36 weeks), and security patches for the subsequent ten release cycles (~60 weeks). If your organization intends to remain on the LTS channel, we strongly suggest you attempt updating your application to 2.4 and open any issues in the next six weeks.

For more details on changes landing in 2.4, review the [Ember.js 2.4.1 CHANGELOG](#).

EMBER.JS 2.5 BETA

Ember 2.5 introduces several minor public API additions.

`Ember.assign`

<SELECT> GOOD EMBER PATTERNS!

Thank you!

[@brnnbrn](#)

talks.brennaobrien.com/ember-select