CSS Modules with BEM

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Consistent Design

Consistent Design

Different Module Versions

Consistent Design

Different Module Versions

Combine Small Modules

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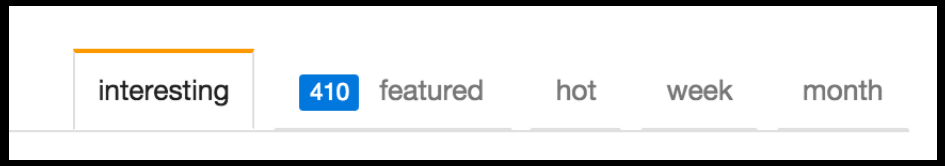
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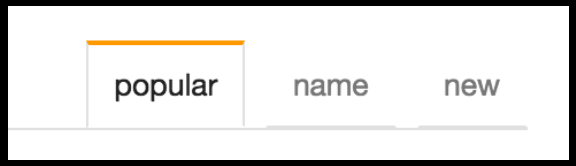
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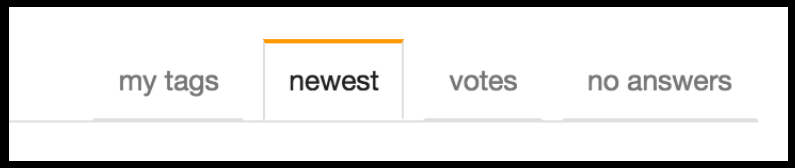
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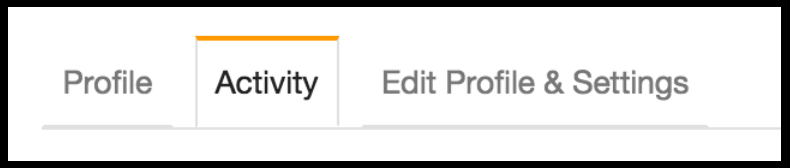
newest
votes
no answers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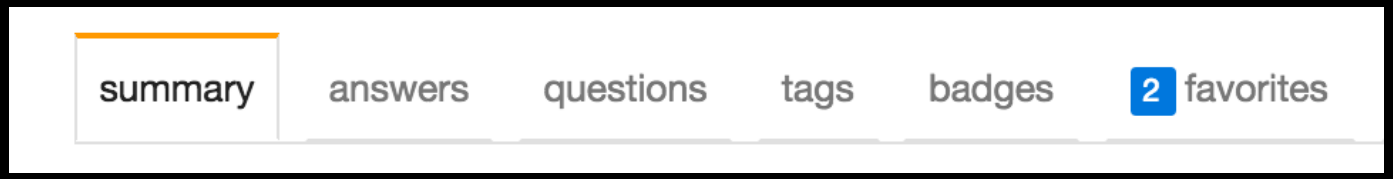
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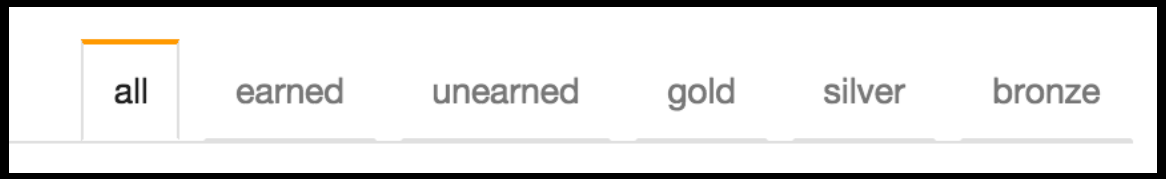
answers
questions
tags
badges
2
favorites


all
earned
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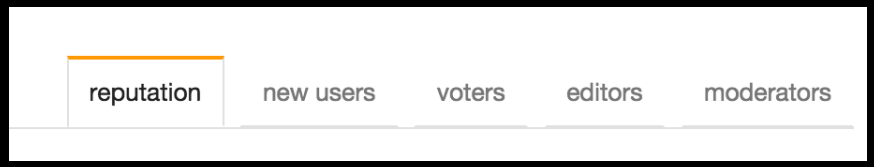
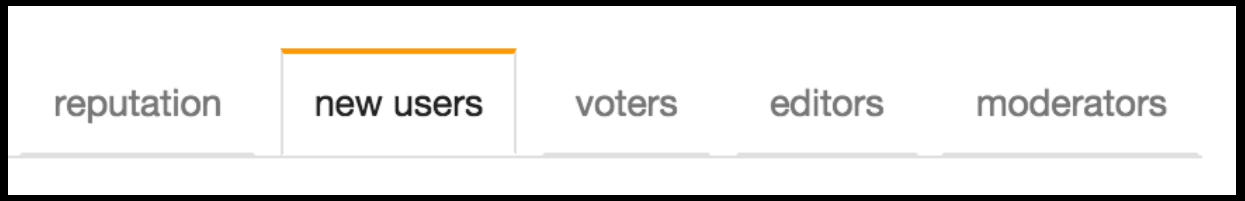
gold
silver
bronze


reputation
new users
voters
editors
moderators

Non-modular Naming

```
.tabs {}
.tab {}
.active {}
```

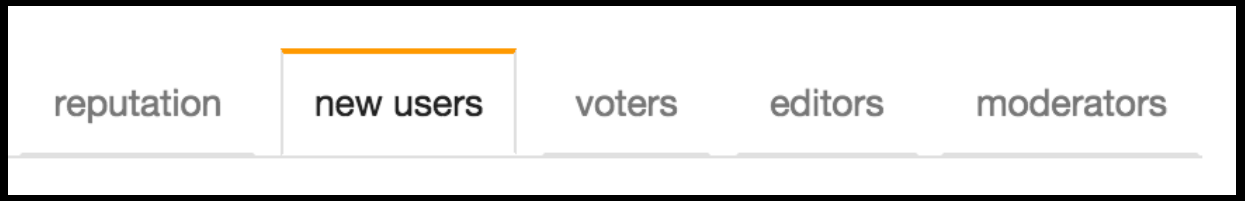
```
<ul class="tabs">
  <li class="tab active">new users</li>
</ul>
```



CSS Selector Nesting

```
.tabs {}
.tabs .tab {}
.tabs .tab.active {}
```

```
<ul class="tabs">
  <li class="tab active">new users</li>
</ul>
```



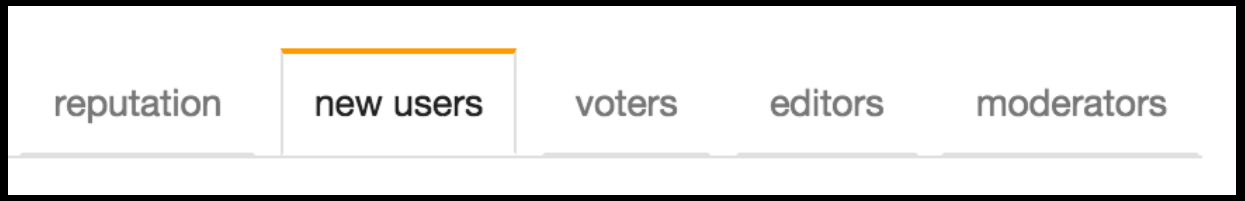
```
<div class="article">
    <h1 class="title"></h1>

    <div class="photo">
        <img src="image.jpg">
        <div class="title"></div>
    </div>
</div>
```

CSS Selector Nesting #2

```
.tabs {}
.tabs > .tab {}
.tabs > .tab.active {}
```

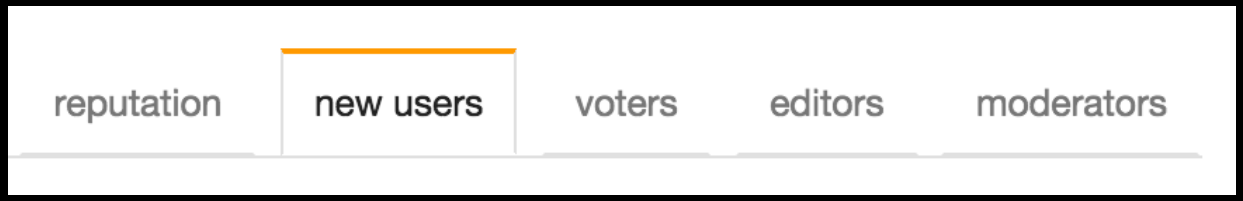
```
<ul class="tabs">
  <li class="tab active">new users</li>
</ul>
```



Block-Element-Modifier (BEM)

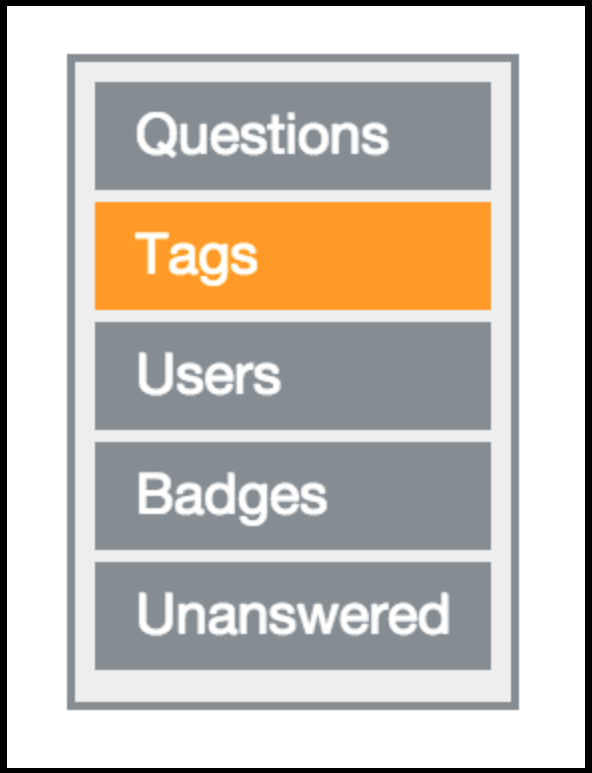
```
.tabs {}
.tabs__tab {}
.tabs__tab--active {}
```

```
<ul class="tabs">
  <li class="tabs__tab tabs__tab--active">
    new users
  </li>
</ul>
```

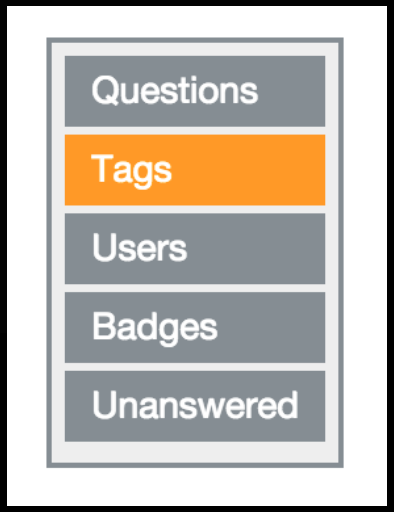


```
// No styling based on parent
.sidebar .tabs {}
// Instead, use a modifier
.tabs.tabs--sidebar {}
```

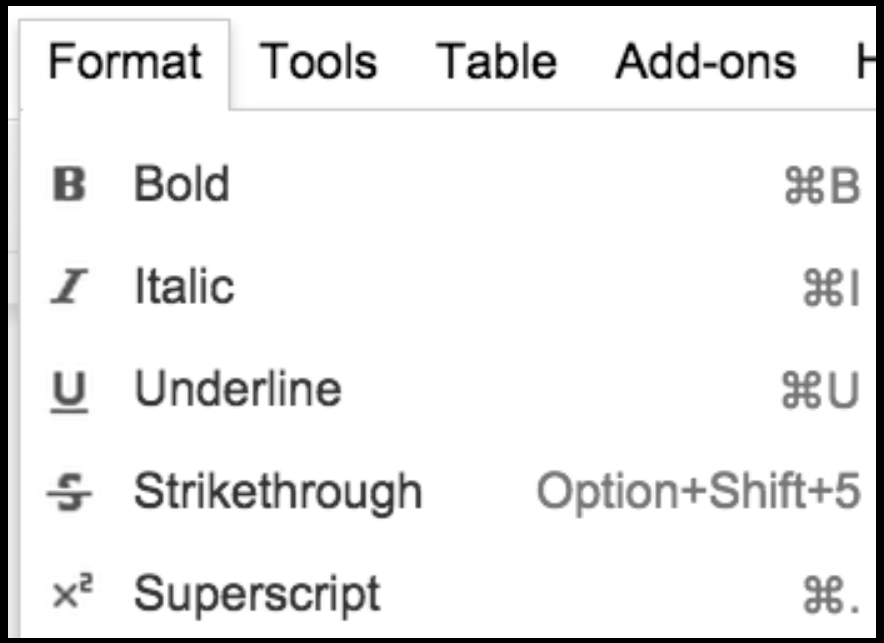
	Non-modular Naming	Selector Nesting	BEM
Module structure reflected in CSS	✗	✓	✓
Module structure reflected in HTML	✗	✗	✓
Sibling modules can't override styles	✗	✓	✓
Parent modules can't override styles	✗	✗	✓


Questions
Tags
Users
Badges
Unanswered

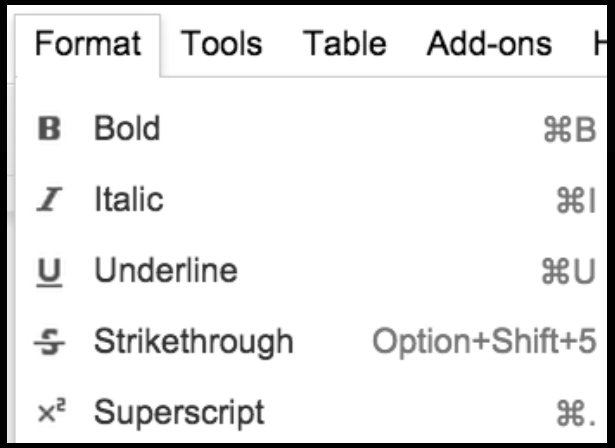
```
<ul class="nav nav--vertical list-box">
  <li class="nav__item ">
    <a class="nav__item-link">
        Questions
    </a>
  </li>
  <li class="nav__item nav__item--active">
    <a class="nav__item-link">
        Tags
    </a>
  </li>
</ul>
```



```
// Don't style element from another module
.list-box .nav__item {}
// Instead create a new class
.list-box__item {}
<li class="nav__item list-box__item">
    Questions
</li>
```


Format
Tools
Table
Add-ons
Bold ⌘B
Italic ⌘I
Underline ⌘U
Strikethrough Option+Shift+5
Superscript ⌘.

```
<ul class="menu-bar">
  <li class="menu-bar__item menu-bar__item--active
  menu menu--active">
    Format
    <ul class="menu__content">
      <li class="menu__item">Bold</li>
      <li class="menu__item">...</li>
    </ul>
  </li>
</ul>
```



Writing BEM in Sass/Less

```
.nav {
  &__item {
    color: green;
    &--active {
      color: red;
    }
  }
}
// CSS Output:
.nav__item { color: green; }
.nav__item--active { color: red; }
```

Sass ... & feature

```
.a {
  .b & {...}
}
// CSS Output
.b .a {...}
```

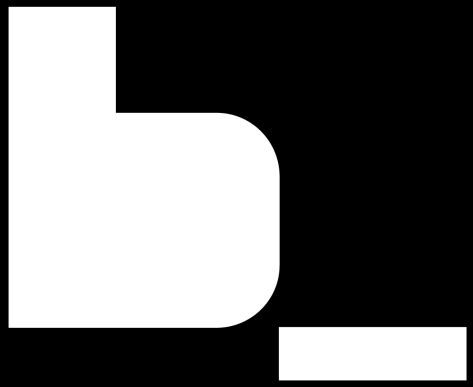
Styling Elements Based on Block Modifiers

```
.nav {
    &__item {
      .nav--vertical & {
        font-size: 20px;
      }
    }
}
// Generated CSS:
.nav--vertical .nav__item {
  font-size: 20px;
}
```

BEM

Yandex: bem.info

Harry Roberts: MindBEMding blog post



Thank You

@mattzeunert