

# Real Routes

- LEVEL 3 -



# Optional Routes

*Search route with query and optional page parameter*

```
var TodoRouter = new (Backbone.Router.extend({
  routes: {
    'search/:query': 'search',
    'search/:query/p:page': 'search'
  },
  search: function(query, page) {
    page = page || 0;
    console.log(query);
    console.log(page);
  }
}));
```



**Duplicate  
Routes**

TodoRouter.navigate('search/milk', {trigger: true}); --> "milk", 0


TodoRouter.navigate('search/milk/p2', {trigger: true}); --> "milk", 2

Real Routes



# Optional Routes

```
var TodoRouter = new (Backbone.Router.extend({
  routes: {
    'search/:query(/p:page)': 'search',
  },
  search: function(query, page) {
    page = page || 0;
    console.log(query);
    console.log(page);
  }
}));
```



Optional  
Route Part

TodoRouter.navigate('search/milk', {trigger: true}); --> "milk", 0

TodoRouter.navigate('search/milk/p2', {trigger: true}); --> "milk", 2


What if we want to match 'search/milk/p2/'?

Real Routes



# Optional Trailing Slash

```
var TodoRouter = new (Backbone.Router.extend({
  routes: {
    'search/:query(/p:page)(/)' : 'search',
  },
  search: function(query, page) {
    page = page || 0;
    console.log(query);
    console.log(page);
  }
}));
```



Optional  
trailing slash

TodoRouter.navigate('search/milk/p2/', {trigger: true}); --> "milk", 2

Real Routes





# VRI with Spaces Gotcha

```
var TodoRouter = new (Backbone.Router.extend({
  routes: {
    'search/:query(/p:page)(/)': 'search',
  },
  search: function(query, page) {
    page = page || 0;
    console.log(query);
    console.log(page);
  }
}));
```

**Encoded space**

*Search for "Hello World"*

```
TodoRouter.navigate('search/Hello%20World/p2', {trigger: true})
```

"Hello%20World", 2



**Not decoded**

Real Routes



# URI with Spaces Gotcha

```
var TodoRouter = new (Backbone.Router.extend({
  routes: {
    'search/:query(/p:page)(/)': 'search',
  },
  search: function(query, page) {
    page = page || 0;
    query = decodeURIComponent(query);
    console.log(query);
    console.log(page);
  }
}));
```

**Encoded space**

```
TodoRouter.navigate('search/Hello%20World/p2', {trigger: true})
```

"Hello World", 2



**Decoded**


Real Routes




# Regex in Routes

*Restrict parameter to numeric input*

```
var TodoRouter = new (Backbone.Router.extend({
  routes: {
    'todos/:id': 'show'
  },
  show: function(id) {
    console.log("id = " + id);
  }
}));
```

`TodoRouter.navigate('todos/2', {trigger: true})`  `id = 2`

`TodoRouter.navigate('todos/notanid', {trigger: true})`

 `id = notanid`



**Shouldn't trigger show**

Real Routes



# Regex in Routes

```
var TodoRouter = new (Backbone.Router.extend({  
  show: function(id) {  
    console.log("id = " + id);  
  }  
}));
```

Each Regex Capture Group becomes a param

```
TodoRouter.route(/^todos\/(\d+)$/, 'show');
```

```
TodoRouter.navigate('todos/2', {trigger: true}) ---> id = 2
```

```
TodoRouter.navigate('todos/notanid', {trigger: true})
```



Doesn't trigger show

Real Routes





# Regex in Routes Refactor

---

```
var TodoRouter = new (Backbone.Router.extend({
  initialize: function(){
    this.route(/^todos\/(\d+)$/, 'show');
  },
  show: function(id) {
    console.log("id = " + id);
  }
}));
```

**Keep routes inside  
the router**

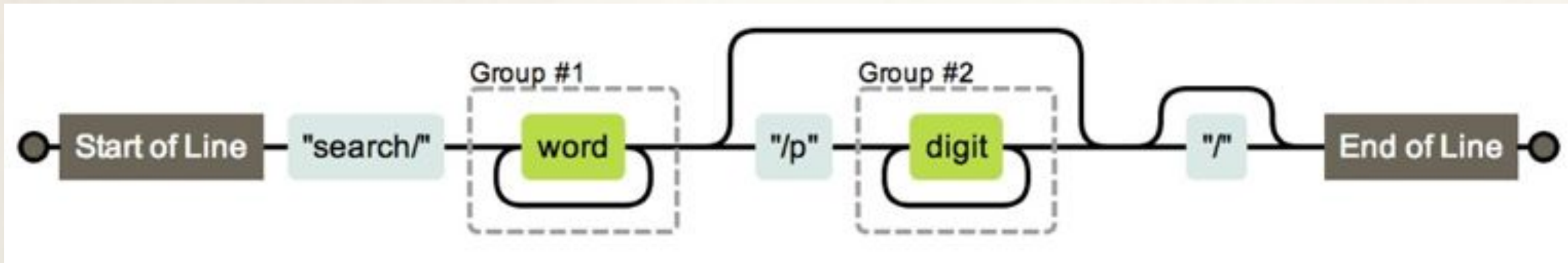
---

Real Routes



# Advanced Regex Routes

`/^search\/(\w+)(?:\/p(\d+))?\w?$/` --> `'search/:query(/p:page)'`



*Matches*

`'search/milk'`  
`'search/milk/p2'`  
`'search/milk/p2/'`

*Doesn't Match*

`'searches/milk'`  
`'search/milk/p2/p1'`  
`'search/milk/2'`

<http://www.regexper.com/>

Real Routes

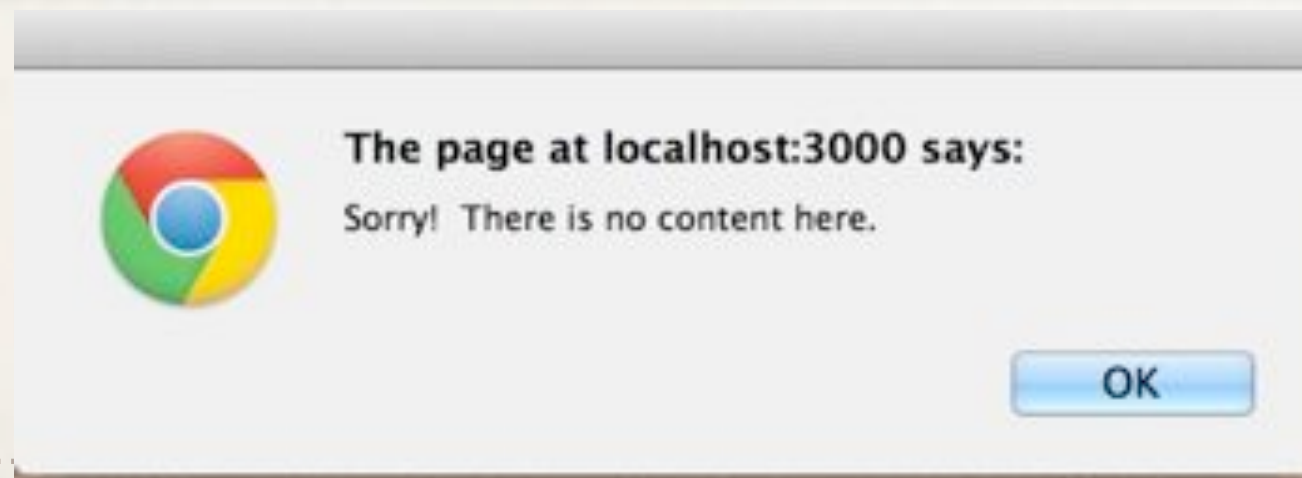


# Catch-all Routes

*Alert user when no route matches*

```
var TodoRouter = Backbone.Router.extend({
  routes: {
    '*path': 'notFound'
  },
  notFound: function(path) {
    alert('Sorry! There is no content here.');
```

```
TodoRouter.navigate('nothinghere', {trigger: true})
```



Real Routes



# File Path Route

*Accept a file path and get its parts*

```
var TodoRouter = new (Backbone.Router.extend({
  routes: {
    'file/*path': 'file'
  },
  file: function(path) {
    var parts = path.split("/");
    console.log(parts);
  }
}));
```

```
TodoRouter.navigate("file/this/is/a/file.txt", {trigger: true});
```



```
["this", "is", "a", "file.txt"]
```

---

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