

Outline

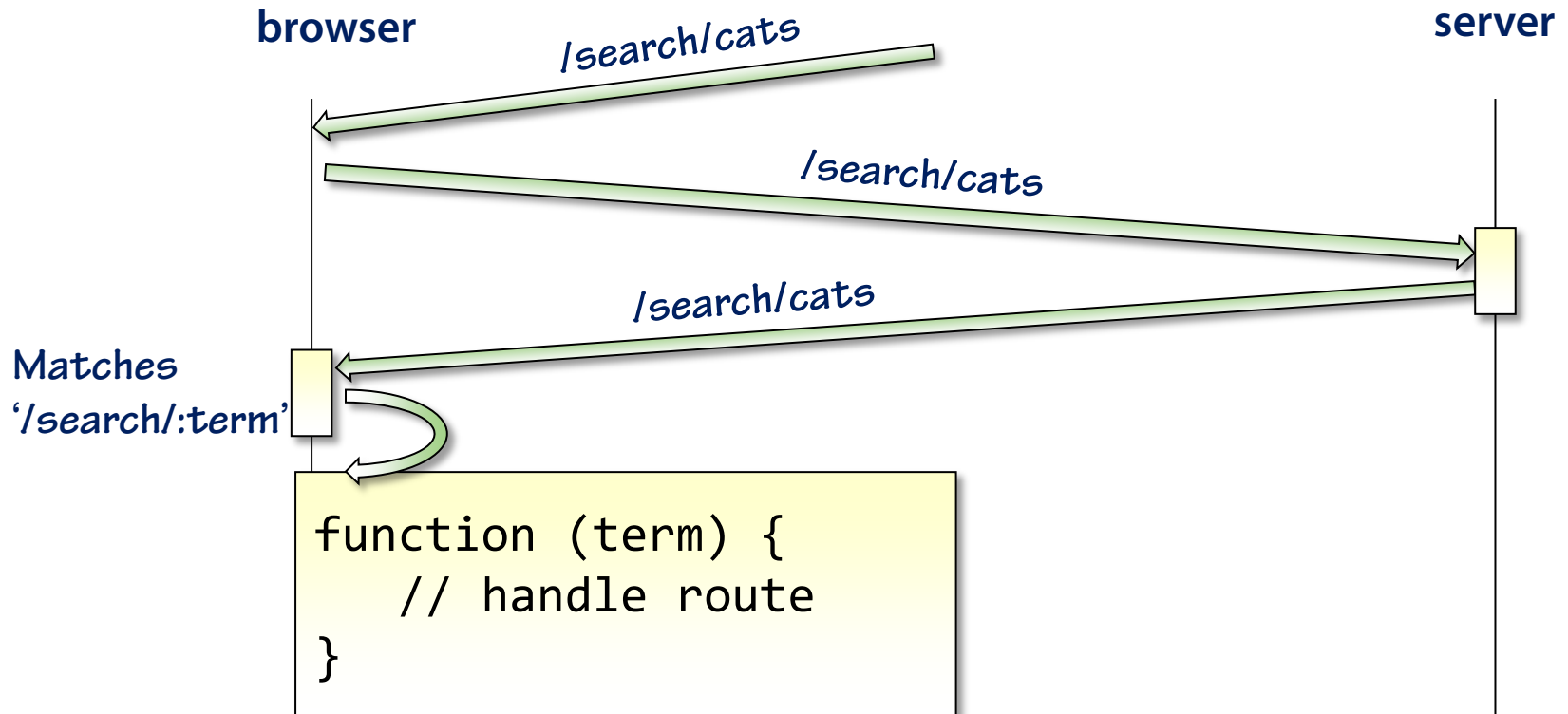
- Client-side routing
- How to define routes
- Triggering routes (navigate)
- Html5 history pushstate
- Hash fragments
- Search Engine Indexability

Routing

- Client-side routes are a way to trigger a function when the browser url changes
- Backbone routing includes parsing of the url and matching the url to the correct route handler
- Don't use routes like MVC actions
- Each route results in two different scenarios

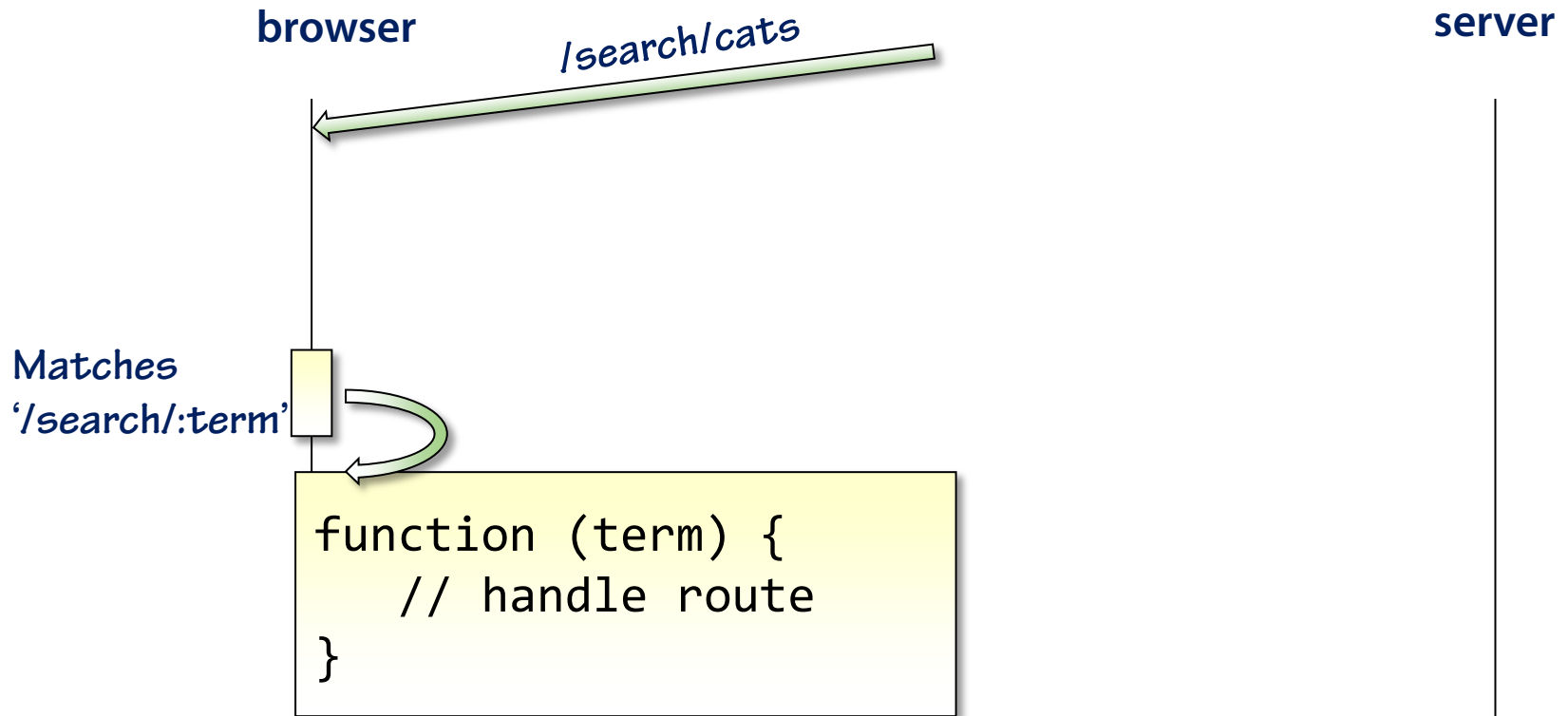
Client-side Routing

- Routing a browser initiated request



Client-side Routing

- Routing a client request



Document Router

Given a set of documents
When a user selects a document
Then that document is displayed



Defining routes

- Define routes by defining a type that extends Backbone.router

```
var Workspace = Backbone.Router.extend({  
  routes: {  
    "search/:query": "search",  
  },  
  search: function(query) {  
    ...  
  }  
});
```

route pattern

handler name

handler

navigate

- **navigate is the backbone function for updating the browser's address and triggering routing**

```
var router = new Workspace();  
Backbone.history.start();  
  
router.navigate('search/cats', {  
    trigger: true  
});
```

- **The first parameter is the new url path**
- **The second parameter tells Backbone if it should trigger routing**

Push state

- The Html5 history api introduced a way to change the browser url without reloading the page

```
window.history.pushState(...);
```

- Browser support is patchy
 - Currently not supported by any version of Internet Explorer
 - caniuse.com

Hash Fragments

- If the browser does not support the Html5 history api Backbone will use hash fragments
- Browsers have always allowed javascript to modify the page url by appending a hash followed by a string

`http://somedomain.com/#search/cats`

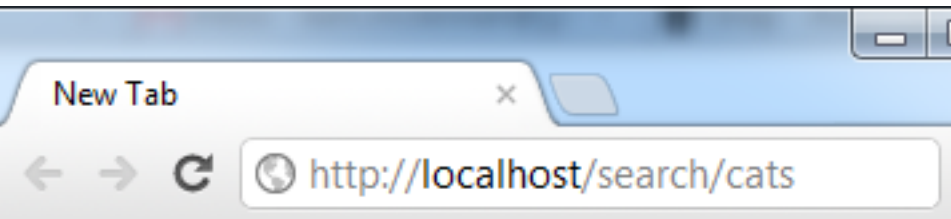


Hash fragment

Hash Fragments (cont.)

```
router.navigate('search/cats', { trigger: true });
```

Html5 history api



Hash fragments



- Both will trigger the 'search/:query' route

Search Engine Indexability

- Markup that is rendered on the client will not be indexed by search engines.
- Option 1: render content on the server
- Option 2: #! Urls

```
Backbone.history.start({ pushState: false });  
router.navigate('!search/cats', { trigger: true });
```

```
// generated url -> #!/search/cats
```

```
// google converts to ->
```

```
/ escaped fragment =search/cats
```

Summary

- Don't use routing like mvc controllers
- Defining route – patterns and handlers
- Html 5 history and pushstate
- Hash fragments