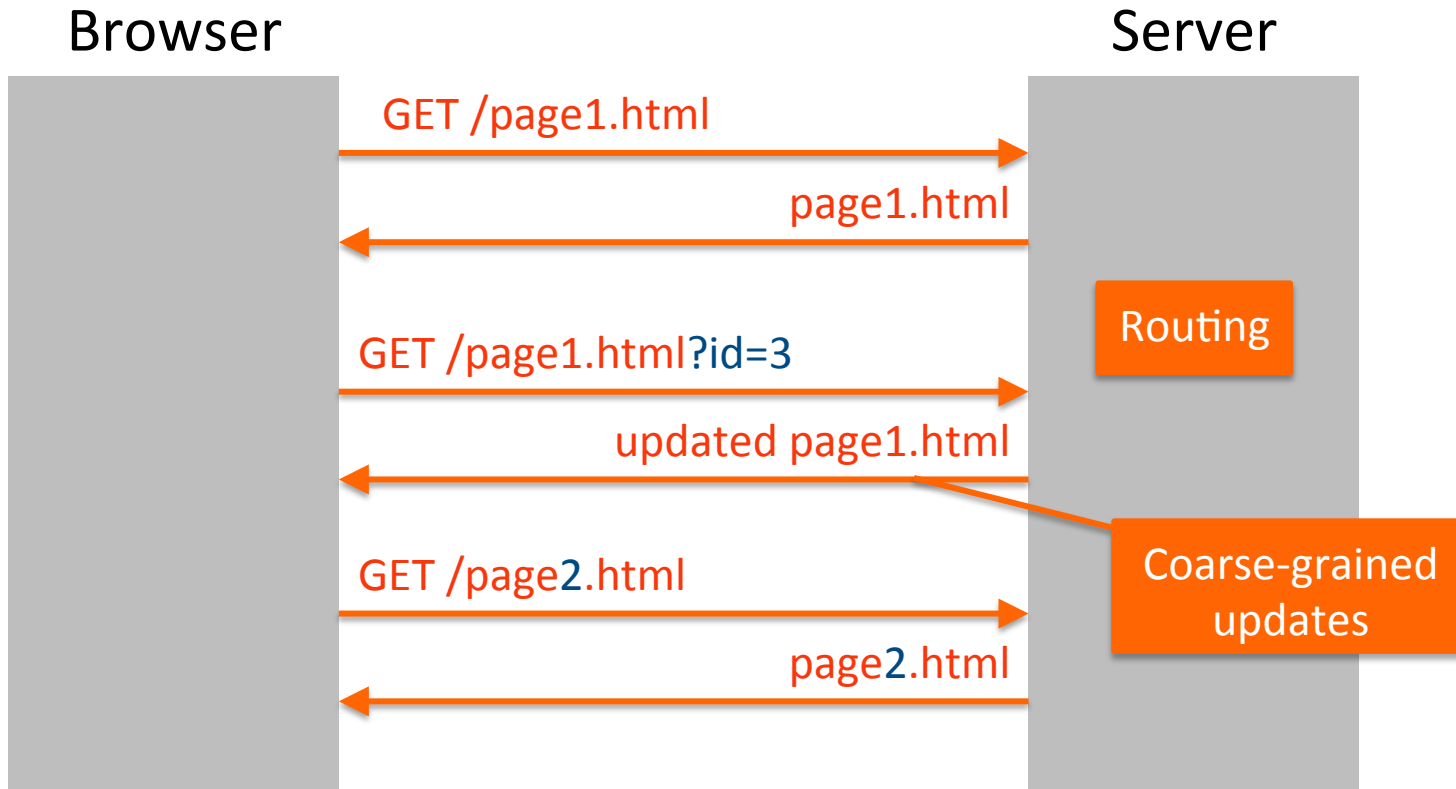


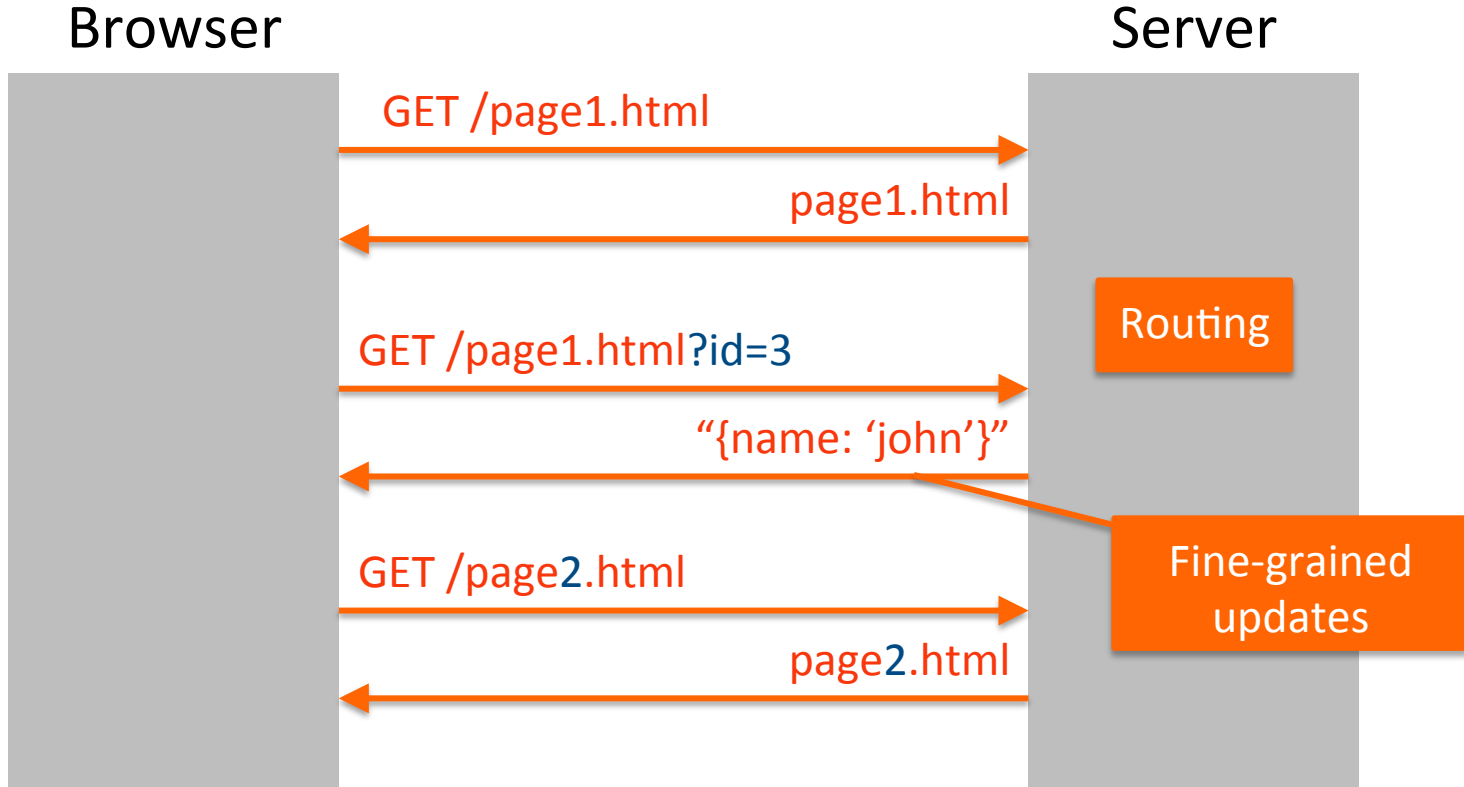
# Routing



# Traditional Client-Server Communication



# Web 2.0 Client-Server Communication



# Single Page Application (SPA) Model

Browser

Server

Routing

GET /index.html

index.html

GET #/view2

template2.html

...#/view2

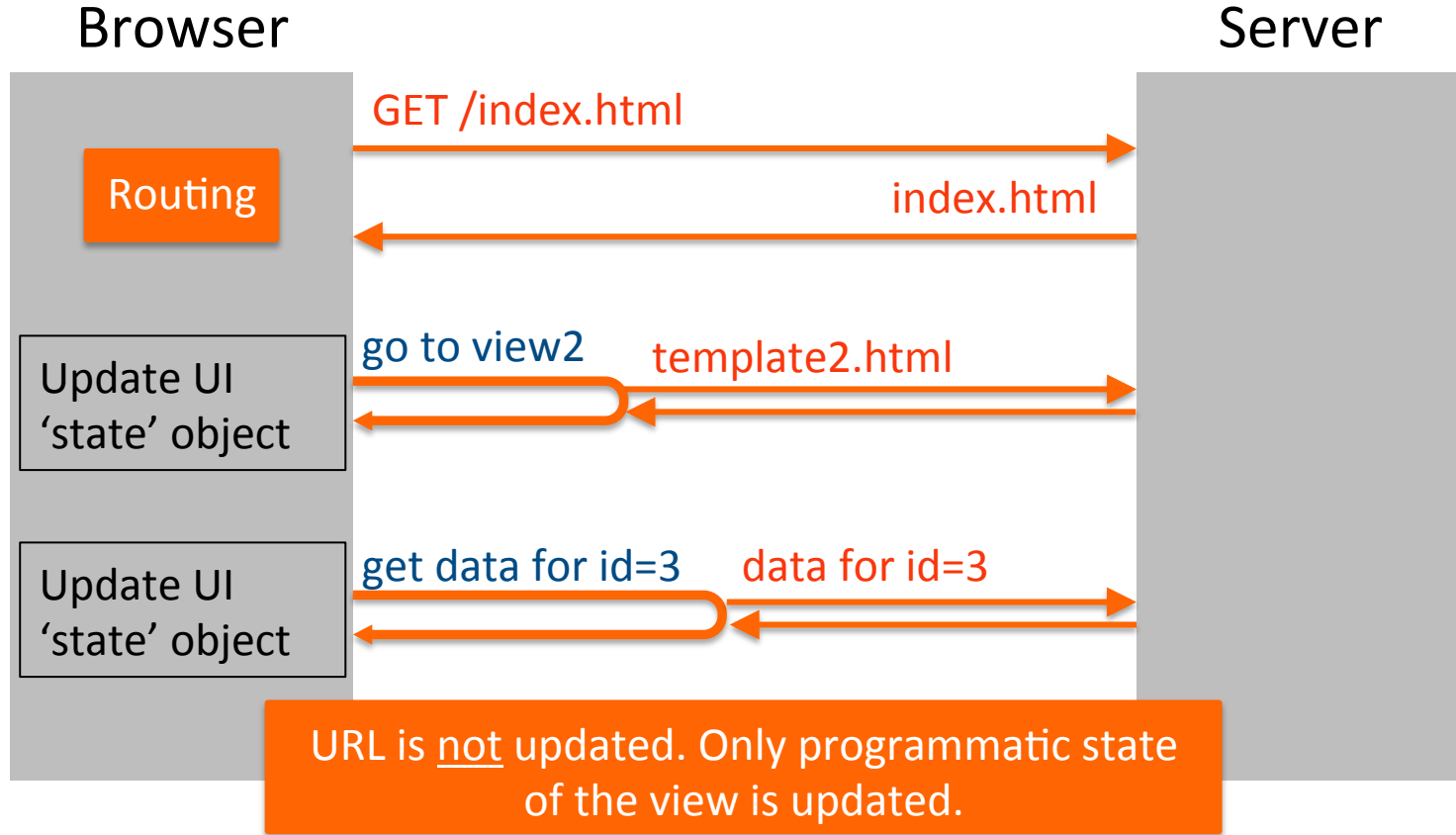
GET #/view2/id/3

data for id=3

...#/view2/id/3

Part of browser  
address bar

# Single Page Application (SPA) Model



# ngRoute

- ✧ Separate JS file
- ✧ Developed by Google & community
- ✧ No concept of UI state
- ✧ Every route must be represented by a URL
- ✧ No concept of nested views
- ✧ OK for prototype projects

# ui-router

- ✧ Separate JS file
- ✧ Developed by community
- ✧ UI state is central
  - Can have a route with no unique URL for that route
- ✧ URL routing is also supported
  - UI state is updated based on the URL
- ✧ Nested views supported
- ✧ Better choice for more serious projects



# Step 1: Reference in HTML

```
<script src="lib/angular.min.js"></script>  
<script src="lib/angular-ui-router.min.js">  
</script>
```

Reference *after* angular

## Step 2: Place ui-view Initial View Placeholder

```
<body>  
  ...  
  <ui-view></ui-view>  
  ...  
</body>
```

Content of a view will  
be loaded here



## Step 3: Declare ui-router As a Dependency

```
angular.module( 'App' , [ 'ui.router' ] );
```

Module name uses  
'', not '-'



## Step 4: Configure Routes in .config Method

```
angular.module('App')  
  .config(RoutesConfig);  
  
RoutesConfig.$inject =  
  ['$stateProvider', '$urlRouterProvider'];  
function RoutesConfig($stateProvider,  
                      $urlRouterProvider) {  
  ... }  
}
```



## Step 4: Configure Routes in .config Method

```
...  
$stateProvider  
  .state('view1', {  
    url: '/view1',  
    template: '<div>...</div>'  
  })  
  
  .state('view2', {...});  
...
```

Unique state name

*Optional* URL associated  
with the state

Contents of template  
will be inserted into  
<ui-view>



## Step 4: Configure Routes in .config Method

```
...  
stateProvider  
  .state('view1', {  
    url: '/view1',  
    templateUrl: 'view1.html'  
  })  
  
  .state('view2', {...});  
...
```

State method  
is chainable

## Step 4: Configure Routes in .config Method

```
$routeProvider
    .otherwise('/view1');

...

stateProvider
    .state('view1', {
        url: '/view1',
        ...});
```



# Summary

- ✧ ui-router uses independent concepts for URL mapping and UI state representation
- ✧ Configure ui-router in angular.config:
  - Provide alternate URL mapping with `$urlRouterProvider.otherwise('alternateURL')`
  - Configure states with optional URLs using `$stateProvider.state('name', { url: '...', templateUrl: '...' })`
- ✧ Use `<ui-view>` tag as placeholder for state-based UI
- ✧ Use `ui-sref` attribute for constructing links and actions to configured states

