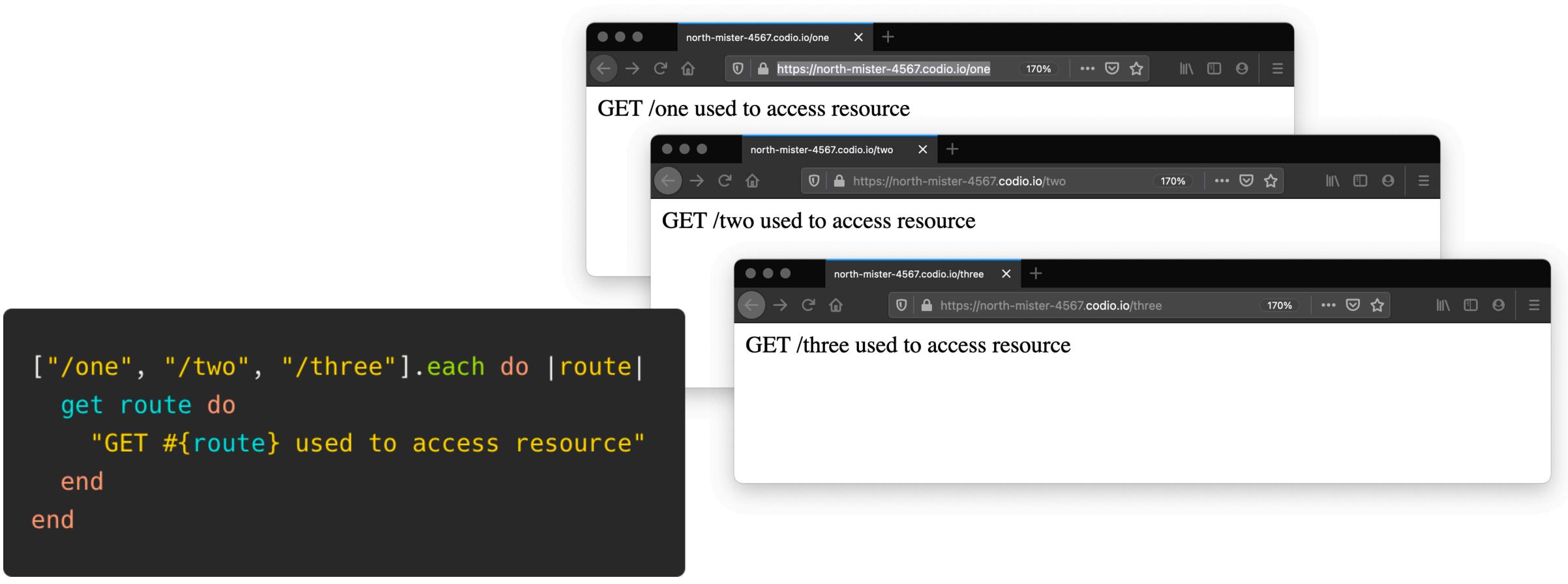


**Professor Phil McMinn** 

### Advanced Routes

### Multiple Routes to a Single Block



routes/multi\_route\_resource.rb

#### Routes with Wildcards

```
get "/date/*-*-*" do
    y = params[:splat][0]
    m = params[:splat][1]
    d = params[:splat][2]

"The date requested is #{y}-#{m}-#{d}"
end
```

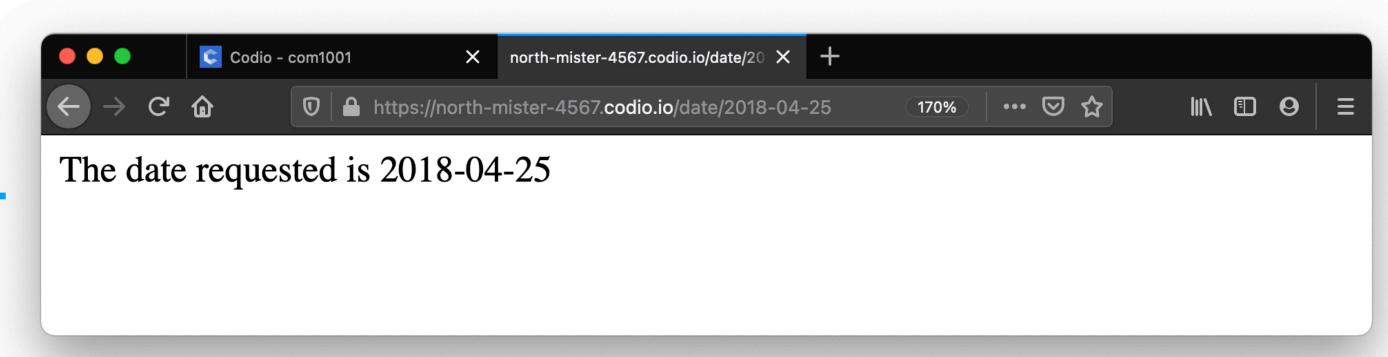
routes/wildcards.rb

Note that we haven't validated these inputs. In this example – we could type any junk between the –s and it would be accepted.

Routes can contain wildcards using the splat (\*) character. The splat character will match any character up until the next one specified (in this case, the – character)

The characters matching each splat may obtained via the params hash, using the :splat key, as shown here.

This is the response for the URL date/2018-04-25:



#### The First Match Wins

```
get "/*" do
   "I am the god of all routes. Nothing shall get past me"
end

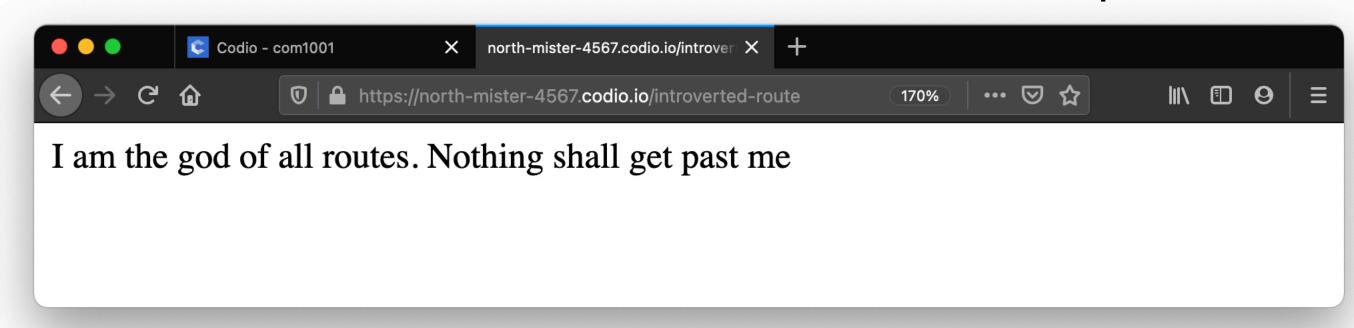
get "/introverted-route" do
   "You will never see me"
end
```

When Sinatra parses routes, the first sufficient match found in the code is the one that will be executed.

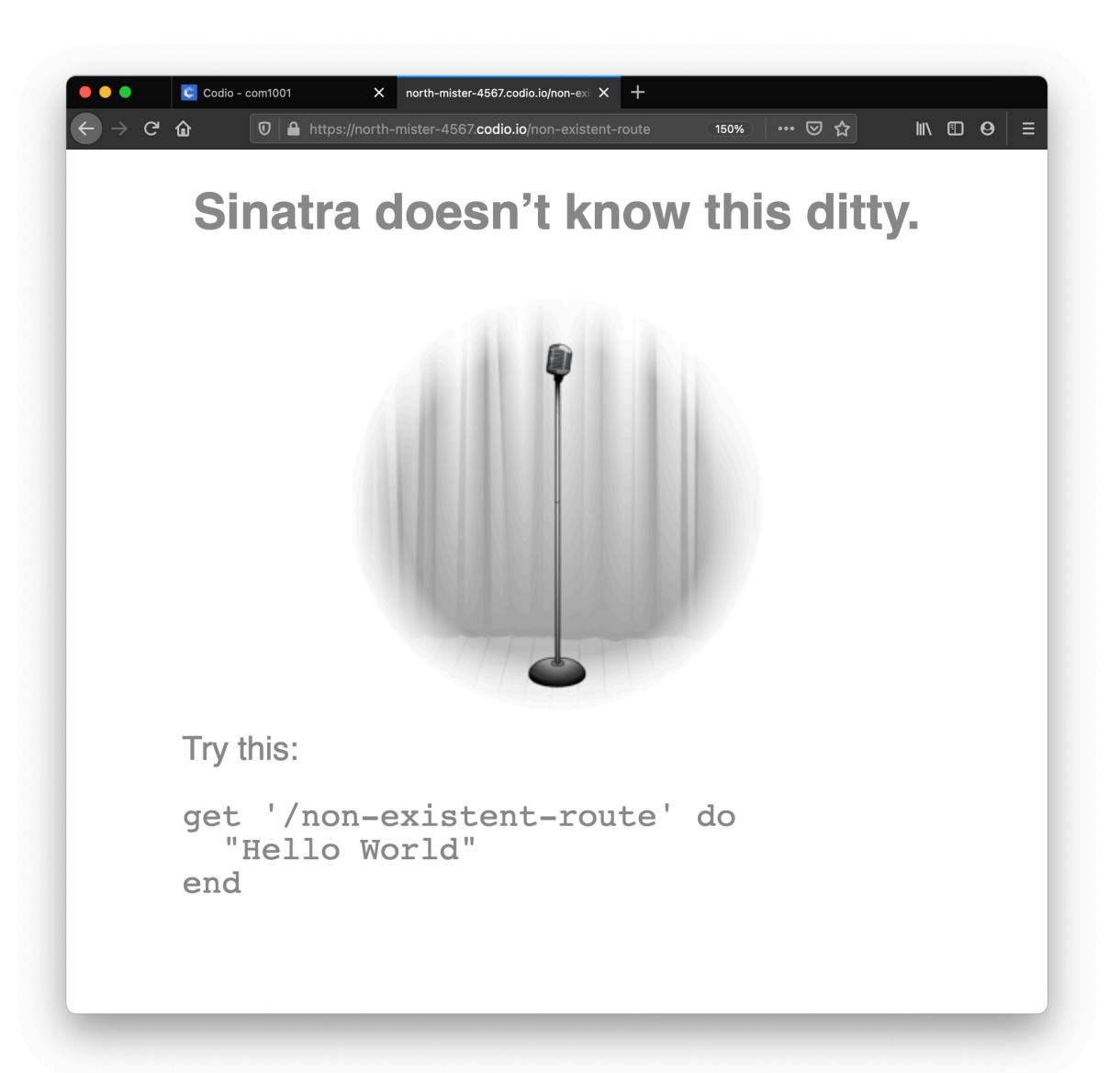
This is true when there's a more specific route definition later in the controller.

routes/greedy\_wildcard.rb

This is what is displayed when we request /introverted-route with this example:



#### Remember the 404 Error?



You've probably seen this page plenty of times now.

In a production application, we'd want to replace this page with something else. We need the special not\_found route:

```
not_found do
  "Your custom 404 message or erb file goes here"
end
```

routes/handling\_404.rb

```
def numeric?(str)
  str.match(/^(\d)+$/)
end
def date?(year, month, day)
  numeric?(year) &&
    numeric?(month) &&
    numeric?(day) &&
    Date.valid_date?(year.to_i, month.to_i, day.to_i)
end
get "/date/*-*-*" do
  y = params[:splat][0]
  m = params[:splat][1]
  d = params[:splat][2]
  not_found unless date?(y, m, d)
  "The date requested is #{y}-#{m}-#{d}"
end
not_found do
  "The page was not found"
end
```

routes/divert\_to\_404.rb

# Redirecting to 404

If the user gives us a bad input, we may not be able to do anything with it, and redirecting to 404 may be the only option.

This example builds on the earlier splat code. This time it validates the numbers supplied and sees if they represent a date. If they do not, the user is redirected to the 404 page.

## When Things Go Wrong...

```
if ENV["APP"] == "production"
 disable :raise_errors
 disable :show_exceptions
 error do
    "There was an error..."
 end
end
get '/' do
  numerator = 0
 denominator = 0
  numerator / denominator
end
```

routes/error\_handling.rb

Unfortunately, web applications can fail in production, but we wouldn't want the usual diagnostic information Sinatra produces to be shown to the user.

This example disables errors and exceptions, and displays the result of the special error route.

Of course, we'd only want this enabled for web applications actually in **production** – in development mode, we want to see the diagnostic information.

How you determine whether your app is in production mode may be via some other means...