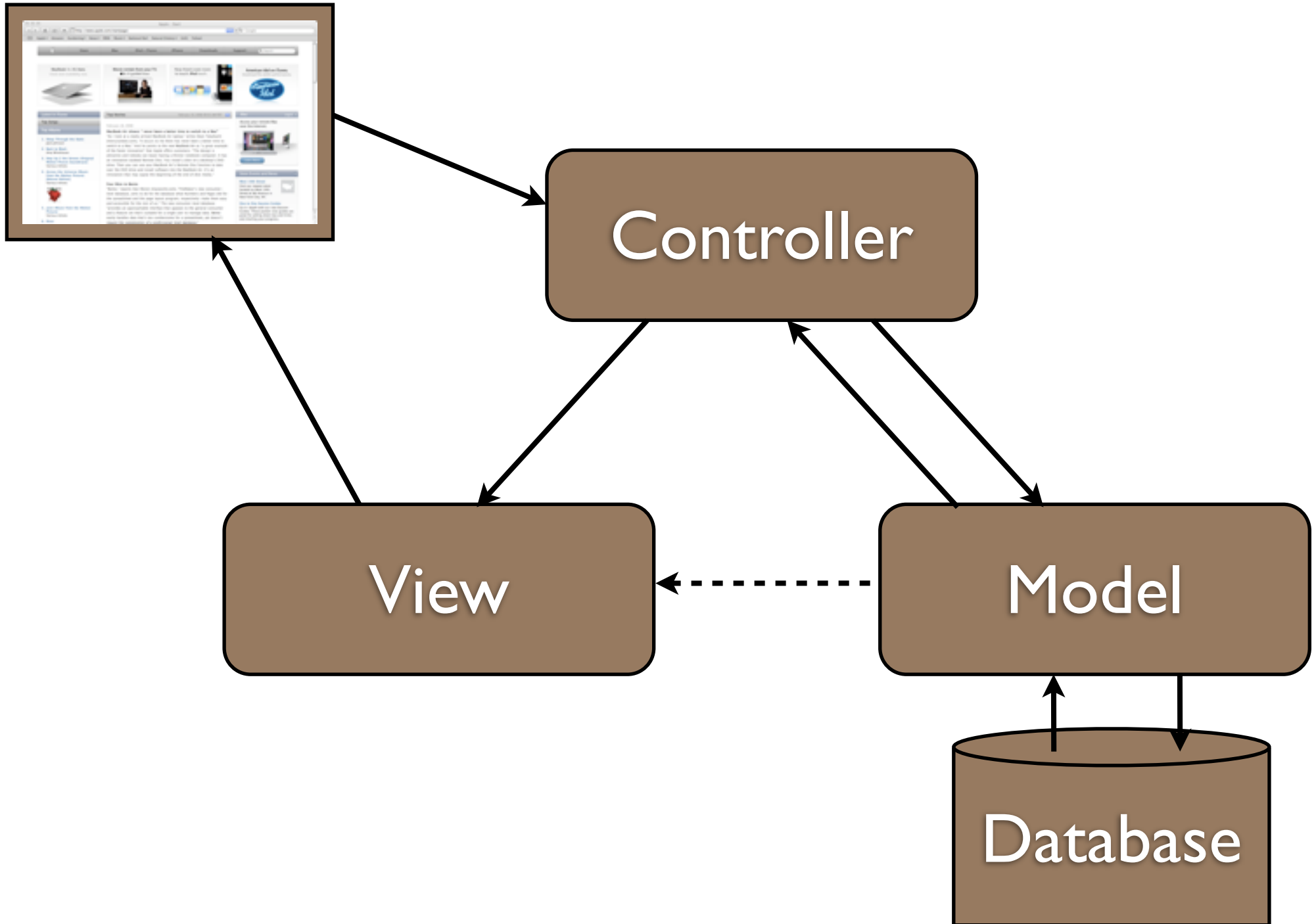# Getting Started
with Ruby on Rails

Prof. Paul Krause, University of Surrey
Chapter 2, Lecture 1
Introducing Rails

Objectives for today

- Introduce Model, View, Controller

- Embedding Ruby in HTML

- Build two simple pages and link them

http://my.url.com/store/add_to_cart/123/

Controller

View

Model

Database

To create a new Rails project

- Type at the command prompt:

  $ rails new MyNewProject

- Then remember to change directory into the root folder of your new project:

  $ cd MyNewProject

FOLDERS

- FirstProject
  - app
    - assets
    - controllers
      - concerns
      - application_controller
    - helpers
    - mailers
    - models
      - concerns
      - .keep
    - views
      - layouts
        - application.html.erb
  - bin
  - config
  - db
  - lib
  - log
  - public
  - test
  - tmp
  - vendor
  - .gitignore
  - config.ru
  - Gemfile
  - Gemfile.lock
  - Rakefile
  - README.rdoc

application_controller.rb

```ruby
class ApplicationController < ActionController::Base
  # Prevent CSRF attacks by raising an exception.
  # For APIs, you may want to use :null_session instead.
  protect_from_forgery with: :exception
end
```

Line 1, Column 1

Thursday, 17 October 13

Generate a new controller

$ rails generate controller Places radio

app/controllers/places_controllers.rb

```ruby
1  class PlacesController < ApplicationController
2    def radio
3    end
4  end
5
```

Embedding Ruby: app/views/places/radio.html.erb

```
1  <h1>Strangest Places</h1>
2  <p>I'm on the radio</p>
3
4  <p>
5    The time is now:
6    <%= Time.now %>
7  </p>
8
9  <p>
10    In one hour's time it will be:
11    <%= 1.hour.from_now %>
12  </p>
```

app/views/places/radio.html.erb

```erb
1  <h1>Strangest Places</h1>
2  <p>I'm on the radio</p>
3
4  <p>
5    The time is now:
6    <%= Time.now %>
7  </p>
8
9  <p>
10    In one hour's time it will be:
11    <%= 1.hour.from_now %>
12  </p>
13
14  <% for i in 2..4 %>
15    <p>
16      In <%= i %> hours' time it will be:
17      <%= i.hour.from_now %>
18    </p>
19  <% end %>
20
```

Copying data from Controller to View

```
1  class PlacesController < ApplicationController
2      def radio
3        @time = Time.now
4      end
5  end
6
```

```
1  <h1>Strangest Places</h1>
2  <p>I'm on the radio</p>
3
4  <p>
5    The time is now:
6    <%= @time %>
7  </p>
```

Navigating between pages

app/controllers/places_controller.rb

```ruby
1  class PlacesController < ApplicationController
2    def radio
3      @time = Time.now
4    end
5
6    def video
7    end
8
9  end
10
```

config/routes.rb

```ruby
FirstProject::Application.routes.draw do
  get "places/radio"
  get "places/video"
end
```

Create: app/views/places/video.html.erb

```
1  <h1>Strangest Places</h1>
2  <p>I'm on the video</p>
```

app/views/places/radio.html.erb

```erb
1  <h1>Strangest Places</h1>
2
3  <p>
4    They take me away from</br>
5    <%= link_to "The strangest places", :action => "video" %>
6  </p>
7
8  <p>I'm on the radio</p>
9
```

What We Have Done

- Embedded some Ruby into HTML

- Introduced basic navigation between pages