Ruby Monstas

Session 16

Agenda

Apéro
Recap
ERB
CSS
Exercises

Recap

HTML

```html
<!DOCTYPE html>

<html>
  <head>
    <title>This is shown in the browser's title bar</title>
  </head>

  <body>
    <h1>A really big title element</h1>

    <p>A paragraph of text</p>

    These are some of my favourite things (in no particular order):
    <ul>
      <li>RubyMonstas</li>
      <li>My little Pony: Friendship is Magic</li>
      <li>sleeping in</li>
    </ul>

    A typical RubyMonstas session is structured thusly:
    <ol>
      <li>Recap of previous session</li>
      <li>Topic of current session</li>
      <li>Exercises</li>
    </ol>

    <h2>A subtitle</h2>

    <strong>Strong</strong> and <em>emphasized</em> text styles are also
supported.
  </body>
</html>
```

ERB

Embedded Ruby

The world without ERB

```ruby
class HtmlExporter
  def initialize(todos)
    @todos = todos
  end

  def export(file_name)
    File.open(file_name, 'wb') do |html|
      begin_html = "
        <!DOCTYPE html>
        <html>
        <head>
        <title>Todo List Export</title>
        </head>

        <body>
        <h1>Here's all the todos!</h1>

        <ul>
      "
      html << begin_html

      @todos.each do |todo|
        html << "<li>#{todo.title} (#{todo.completed?})</li>\n"
      end

      end_html = "
        </ul>

        </body>
        </html>
      "
      html << end_html
    end

    puts "Written HTML export to file #{file_name}."
  end
end
```

Enter: ERB!

todos.html.erb

```
<!DOCTYPE html>
<html>
  <head>
    <title>Todo List Export</title>
  </head>

  <body>
    <h1>Here's all the todos!</h1>

    <ul>
      <% @todos.each do |todo| %>
        <li>
          <%= todo.title %> (<%= todo.completed? %>)
        </li>
      <% end %>
    </ul>
  </body>
</html>
```

erb_exporter.rb

```ruby
require 'erb'

class ErbExporter

  def initialize(todos)
    @todos = todos
  end

  def export(file_name)
    File.open(file_name, 'wb') do |output_file|
      template_source = File.new('todos.html.erb').read
      erb = ERB.new(template_source)
      rendered_html = erb.result(binding)
      output_file.write(rendered_html)
    end

    puts "Written HTML export to file #{file_name}."
  end

end
```
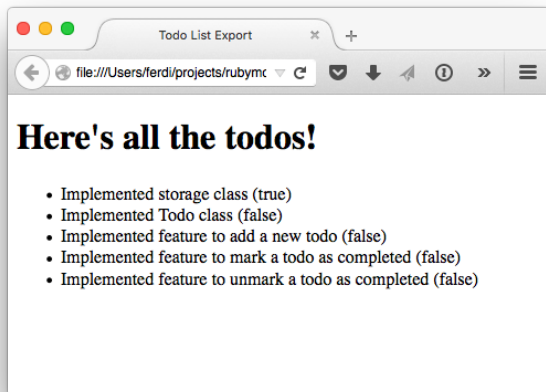
CSS

Cascading Style Sheets

CSS

HTML: Web site <u>structure</u>

CSS: Web site <u>appearance</u>

(JavaScript: Web site <u>behaviour</u>)

CSS

export.html

```html
<!DOCTYPE html>
<html>
  <head>
    <title>Todo List Export</title>
  </head>

  <body>
    <h1>Here's all the todos!</h1>

    <ul>

      <li>
        Implemented storage class (true)
      </li>

      <li>
        Implemented Todo class (false)
      </li>

      <li>
        Implemented feature to add a new todo (false)
      </li>

      <li>
        Implemented feature to mark a todo as completed (false)
      </li>

      <li>
        Implemented feature to unmark a todo as completed (false)
      </li>

    </ul>
  </body>
</html>
```
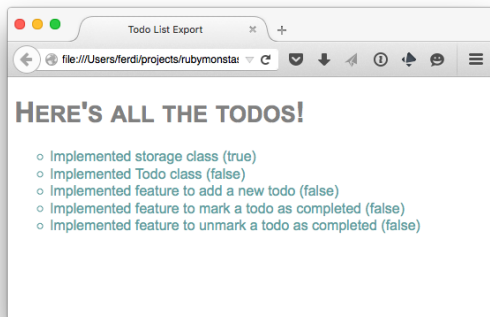
Simple CSS Rules

export.html

```html
<!DOCTYPE html>
<html>
  <head>
    <title>Todo List Export</title>
    <link rel="stylesheet" type="text/css" href="export.css" />
  </head>

  <body>
    <h1>Here's all the todos!</h1>

    <ul>

        <li>
          Implemented storage class (true)
        </li>

        <li>
          Implemented Todo class (false)
        </li>

        <li>
          Implemented feature to add a new todo (false)
        </li>

        <li>
          Implemented feature to mark a todo as completed (false)
        </li>

        <li>
          Implemented feature to unmark a todo as completed (false)
        </li>

    </ul>
  </body>
</html>
```

export.css

```css
body {
  font-family: "Arial";
}


h1 {
  font-variant: small-caps;
  color: grey;
}


ul {
  list-style-type: circle;
}


li {
  color: CadetBlue;
}
```

Time to practice