

# Web System Development with Ruby on Rails



Day 5(18/Oct/2012)  
Layouts and Stylesheet

# Today's Thesis

---

- ❑ Arrange the screen layouts in the views directory.
- ❑ Understand how to write and use CSS (Cascading Style Sheets) file.
- ❑ Understand how to combine HTML descriptions and CSS specification for WEB screens.

# Let's see main(top) screen file

---

Open application.html.erb  
in memopad/app/views/layouts/

```
<!DOCTYPE html>
<html>
<head>
  <title>Memopad</title>
  <%= stylesheet_link_tag "application", :media => "all" %>
  <%= javascript_include_tag "application" %>
  <%= csrf_meta_tags %>
</head>
<body>
  <%= img_tag 'cat.jpeg', :size =>'133x94' />
  <%= yield %>
</body>
</html>
```

```
1 <!DOCTYPE html>
2 <html>
3 <head>
4   <title>Memopad</title>
5   <%= stylesheet_link_tag "application", :media => "all" %>
6   <%= javascript_include_tag "application" %>
7   <%= csrf_meta_tags %>
8 </head>
9 <body>
10  <%= image_tag('cat.jpeg', :size=>"133x94") %>
11  <%= yield %>
12
13 </body>
14 </html>
15
```

# Let's set the page title

---

- Define the title first.

- In `app/views/memos`, add one line below at the top of `index.html.erb`

- `<% @page_title = 'app_title' %>`

- Modify `h1` tag,

- `<h1><%= t :list_memo %></h1>`

- Replace `<title>` in `application.html.erb` at line 4

as

```
<title><%= t @_title %></title>
```

# app/views/layouts/application.html.erb

```
1 <!DOCTYPE html>
2 <html>
3 <head>
4   <title><%= t @page_title %></title>
5   <%= stylesheet_link_tag "application", :media => "all" %>
6   <%= javascript_include_tag "application" %>
7   <%= csrf_meta_tags %>
8 </head>
9 <body>
10  <%= image_tag('cat.jpeg', :size=>"133x133") %>
11  <%= yield %>
12 </body>
13 </html>
14
15
```

Web - memopad/app/views/memos/index.html.erb - Ap

My Memopad - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://127.0.0.1:3000/memos

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## Listing memos

Content			
Yesterday, it was rainy because of the typhoon.	Show	Edit	Destroy

[New Memo](#)

# app/views/memos/index.html.erb

---

```
1 <%= @page_title = 'app_title' %>
2 <h1><%= t :list_memo %></h1>
3
4 <table border="1">
5   <tr>
6     <th><%= t :content %></th>
7     <th></th>
8     <th></th>
9     <th></th>
10  </tr>
11
12 <%= @memos.each do |memo| %>
13   <tr>
14     <td><%= memo.content %></td>
15     <td><%= link_to (t 'show'), memo %></td>
16     <td><%= link_to (t 'edit'), edit_memo_path(memo) %></td>
17     <td><%= link_to (t 'destroy'), memo, method: :delete, data: { confirm: 'Are you
18   </tr>
19 <%= end %>
20 </table>
21
22 <br />
23
24 <%= link_to (t 'new_memo'), new_memo_path %>
25
```

後で、スコープ  
の資料

## Modification Here

---

Page title may change depending on the application's running phase. So, we assigned the title text in the variable, `@app_title`.

Here, `@name` is ruby variable name.

`'app_title'` is however, the symbol for translation. The bodies are in yaml dictionary files.

# Locale files

```
index.html.erb en.yml ja.yml »2
1 en:
2   app_title: My Memopad
3   content: Conte|t
4   show: Show
5   edit: Edit
6   destroy: Destroy
7   list_memo: Listing memos
8   new_memo: New Memo
9   ruby_official: Ruby Official Site
10  not_ready: Preparing
11  my_theme: My Theme Page
12  date:
13  abbr_day_names:
```

Sorry, not ready

```
index.html.erb en.yml ja.yml »2
1 ja:
2   app_title: My Memo
3   Content: content
4   show: Show
5   edit: Edit
6   destroy: Destroy
7   list_memo: Listing memos
8   new_memo: New Memo
9   ruby_official: Ruby Official Site
10  not_ready: Preparing
11  my_theme: My Theme Page
12  date:
13  abbr_day_names:
```

## Part enclosed between `<% %>`

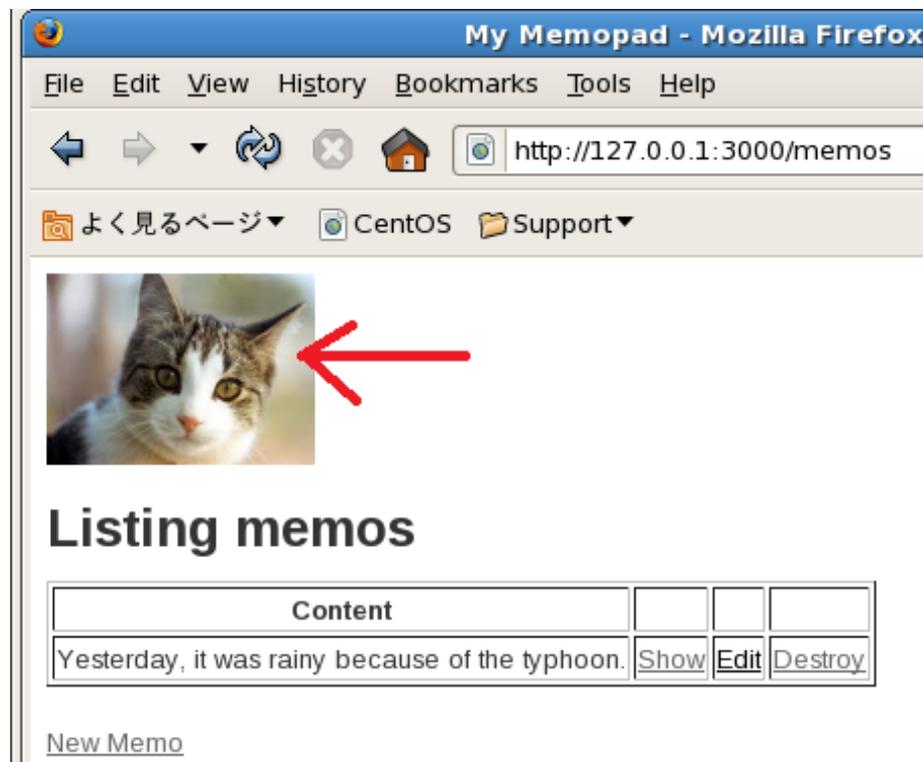
---

- `@page_title` is a ruby variable named `page_title`, strictly is an instance.
- `<% ruby language scripts %>`
- In case between `<%= scripts %>`, `scripts` (`@page_title` above case) are evaluated, and the result is inserted in html.
- `<% @variable='value' %>` no display
- `<%= @variable %>` sent to HTML
  - Remember above expressions

# Let's try the image embedding

- cat.jpeg is shown in the right

```
<%= img_tag( 'cat.jpeg', ;size=>'133x94') %>
```



My Memopad - Mozilla Firefox

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←

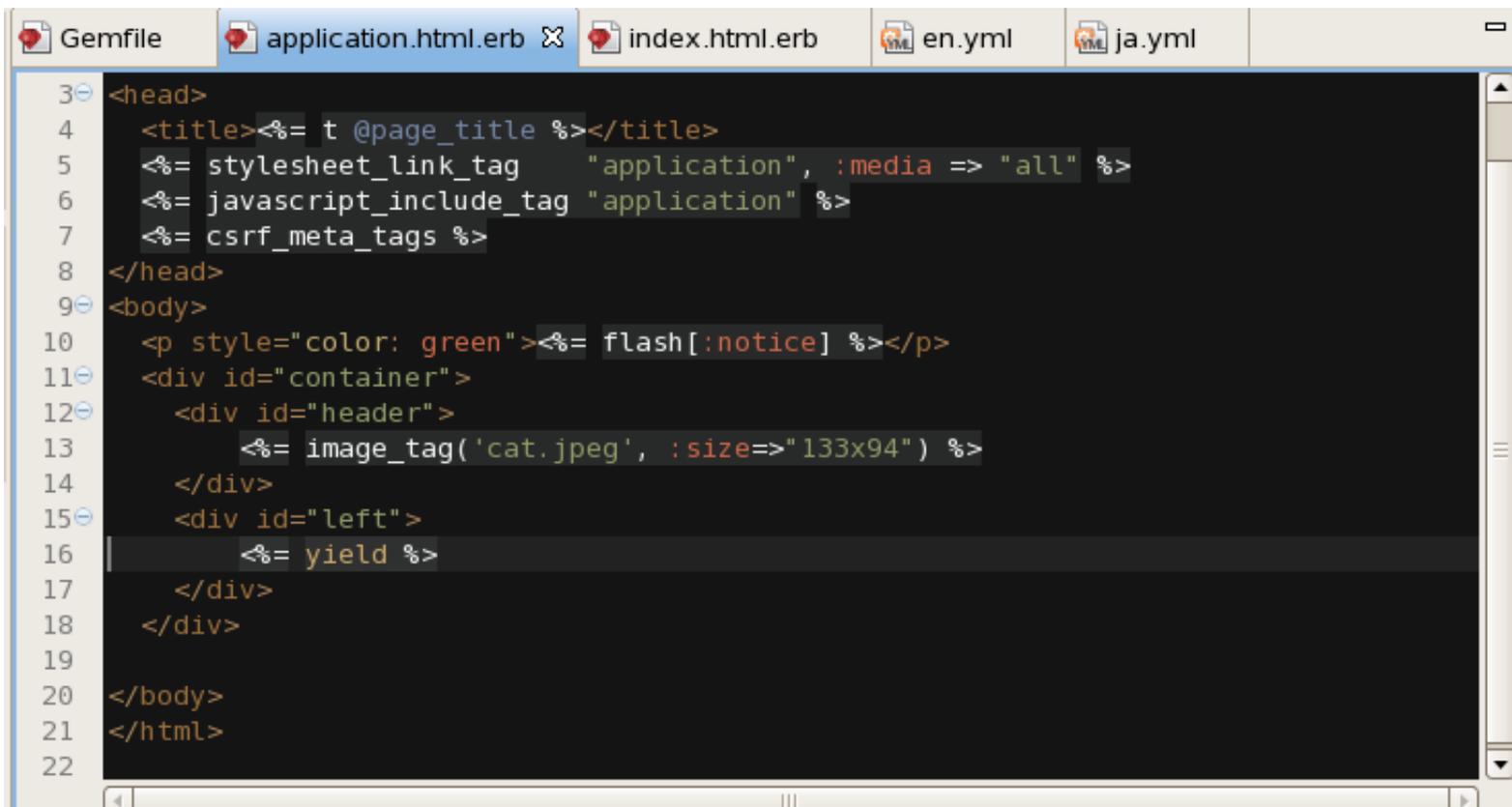
## Listing memos

Content			
Yesterday, it was rainy because of the typhoon.	Show	Edit	Destroy

[New Memo](#)

# Introduction of style sheets and layout setting

## Edit application.html.erb



```
3 <head>
4   <title><%= t @page_title %></title>
5   <%= stylesheet_link_tag "application", :media => "all" %>
6   <%= javascript_include_tag "application" %>
7   <%= csrf_meta_tags %>
8 </head>
9 <body>
10  <p style="color: green"><%= flash[:notice] %></p>
11  <div id="container">
12    <div id="header">
13      <%= image_tag('cat.jpeg', :size=>"133x94") %>
14    </div>
15    <div id="left">
16      <%= yield %>
17    </div>
18  </div>
19
20 </body>
21 </html>
22
```

`<div id="styling block">`

---

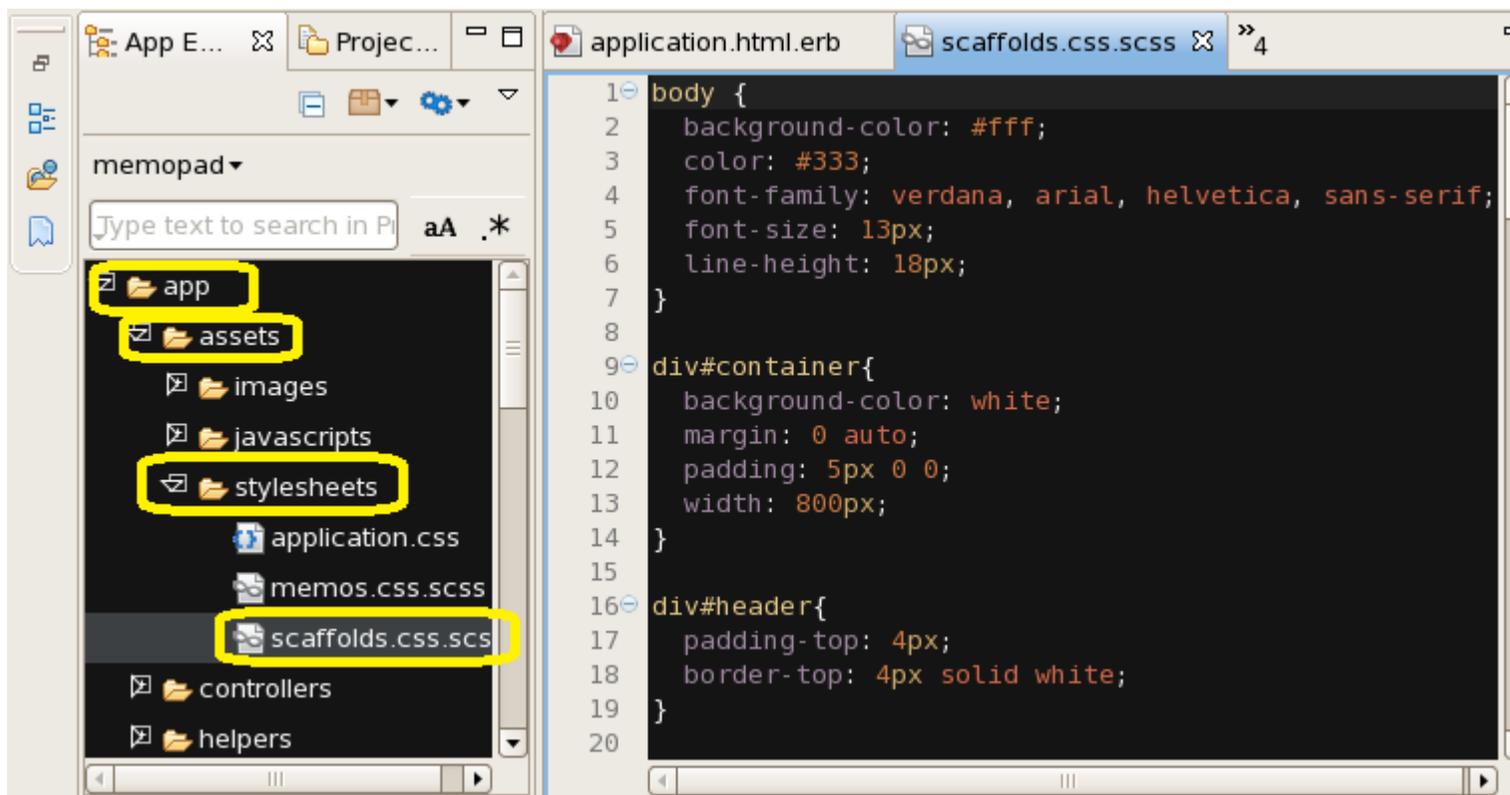
Here we introduced three blocks.  
Container, header, and left.  
(Later on, we introduce 'right'.)

They are defined in style sheet.  
So, where is the style sheet?

# Scaffolds.css.scss

---

app/assets/stylesheets/scaffolds.css.scss



# Modify corresponding scaffold.css

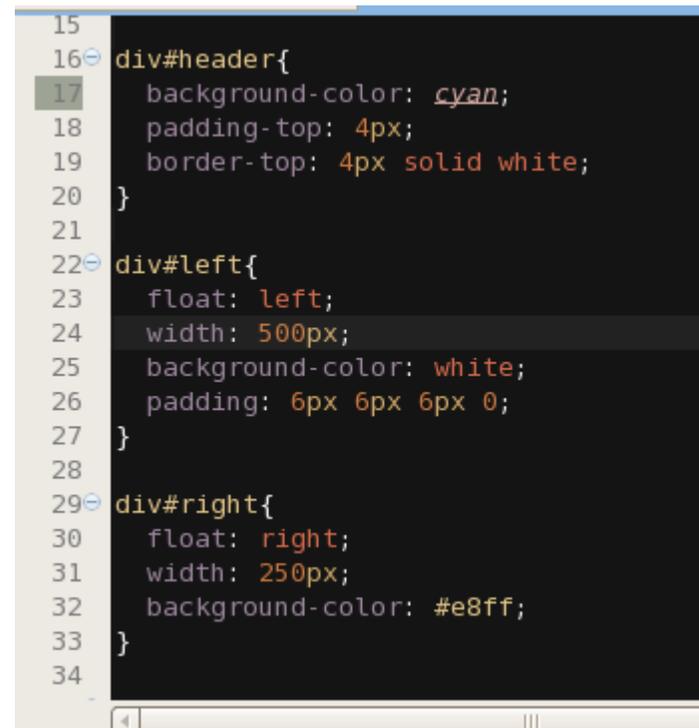
---

- Left side is a text to copy

```
div#container {
  background-color: white;
  margin: 0 auto;
  padding: 5px 0 0;
  width: 800px;
}

div#header {
  background-color: cyan;
  padding-top: 4px;
  border-top: 4px solid #6bb;
}

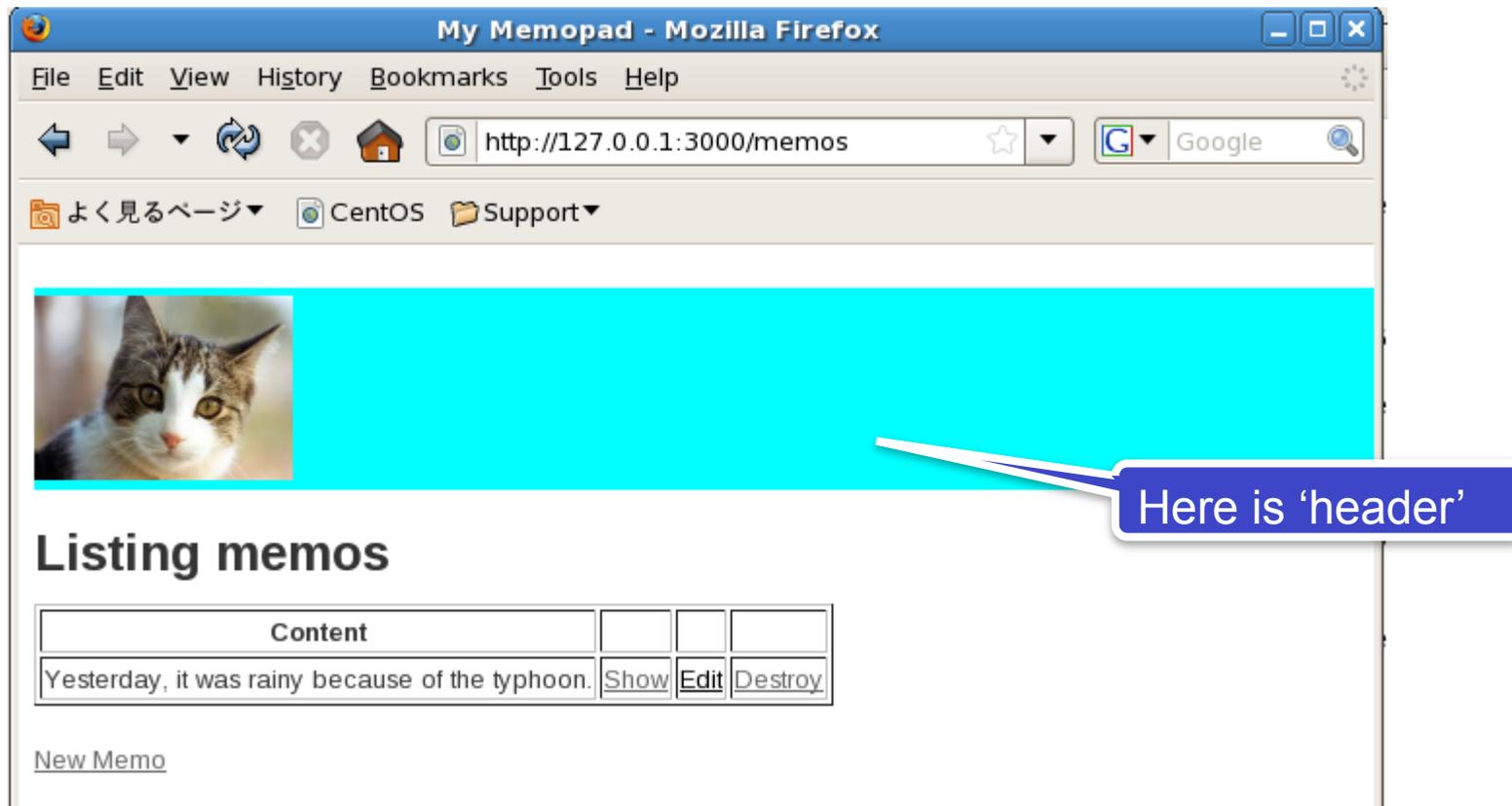
div#left {
  float: left;
  width: 500px;
  background-color: white;
  padding: 6px 6px 6px 0;
}
```



```
15
16 div#header{
17   background-color: cyan;
18   padding-top: 4px;
19   border-top: 4px solid white;
20 }
21
22 div#left{
23   float: left;
24   width: 500px;
25   background-color: white;
26   padding: 6px 6px 6px 0;
27 }
28
29 div#right{
30   float: right;
31   width: 250px;
32   background-color: #e8ff;
33 }
34
```

# Now screen is as below

- Image size need to be fixed for your file



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http://127.0.0.1:3000/memos

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Here is 'header'

### Listing memos

Content			
Yesterday, it was rainy because of the typhoon.	Show	Edit	Destroy

[New Memo](#)

# Add menu bar in the title screen

---

- First, let's check what should be done;
  - (1) add one line in `application.html.erb` to render the `menubar.html.erb`
  - (2) make 'shared' folder in views, then newly write `_menu_bar.html.erb`
  - (3) write `menu_link_to(item)` method, that is called in `_menu_bar.html.erb`, in `application_helper.rb`

# Call menu\_bar

---

- Under memos.html.erb, add one line at just below `<%= image_tag ...`

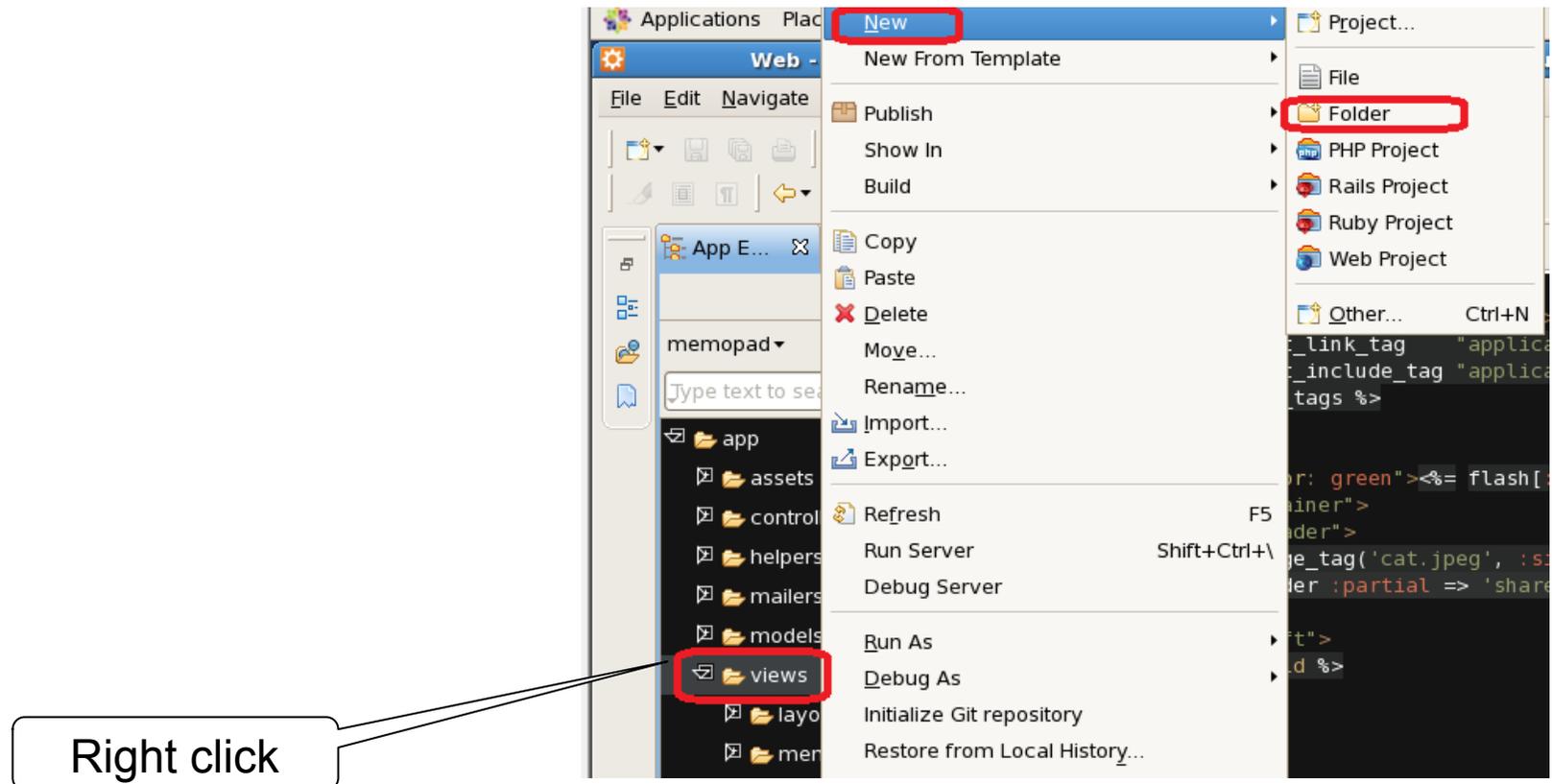
```
<%= render :partial => 'shared/menu_bar' %>
```

- Render is the method to develop embedded ruby result into html
- `:partial` is to specify the part of file

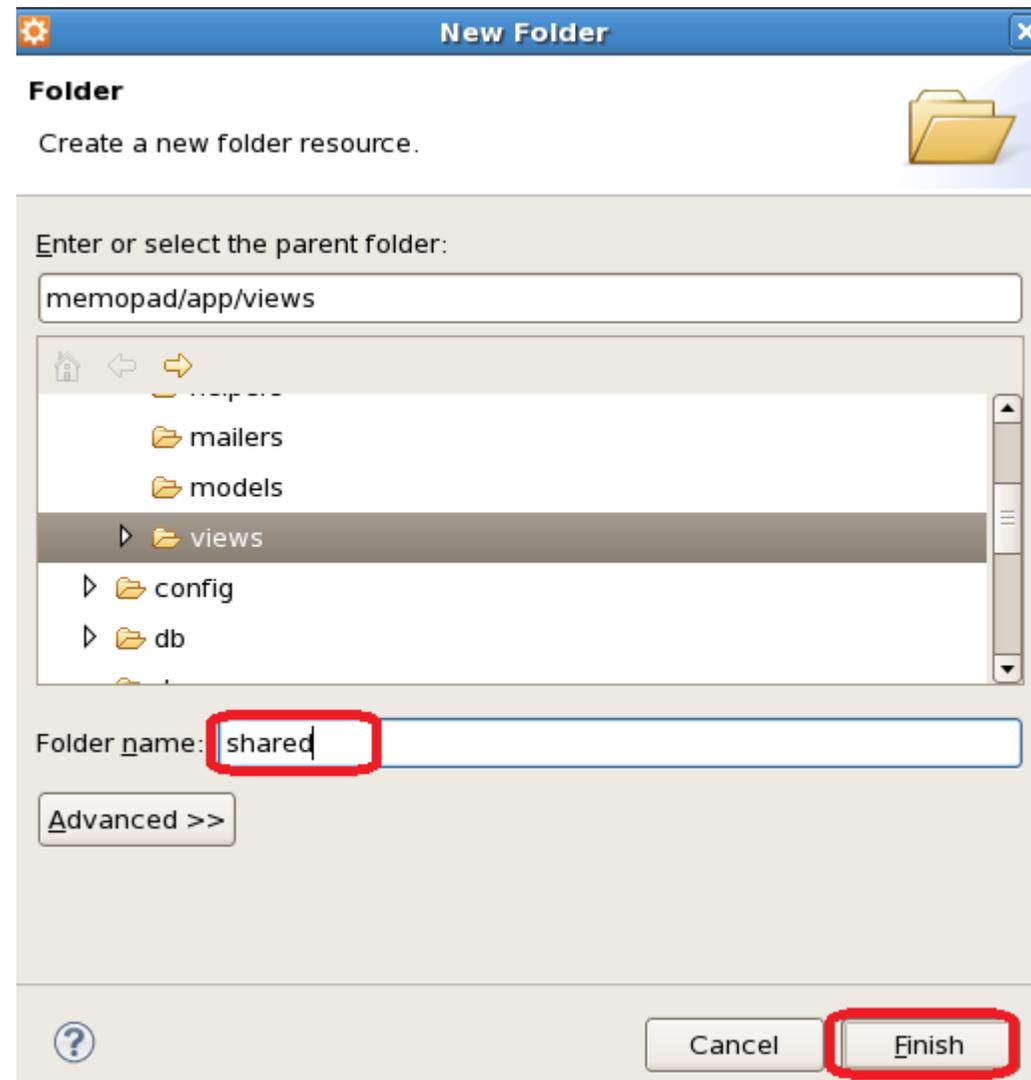
```
9 @ <body>
10   <p style="color: green"><%= flash[:notice] %></p>
11   <div id="container">
12     <div id="header">
13       <%= image_tag('cat.jpeg', :size=>"133x94") %>
14       <%= render :partial => 'shared/menu_bar' %>
15     </div>
16   <div id="left">
17     <%= yield %>
18   </div>
19 </div>
```

# Make shared folder

- Right click in app/views
- Go to 'New' then 'Folder' to make folder



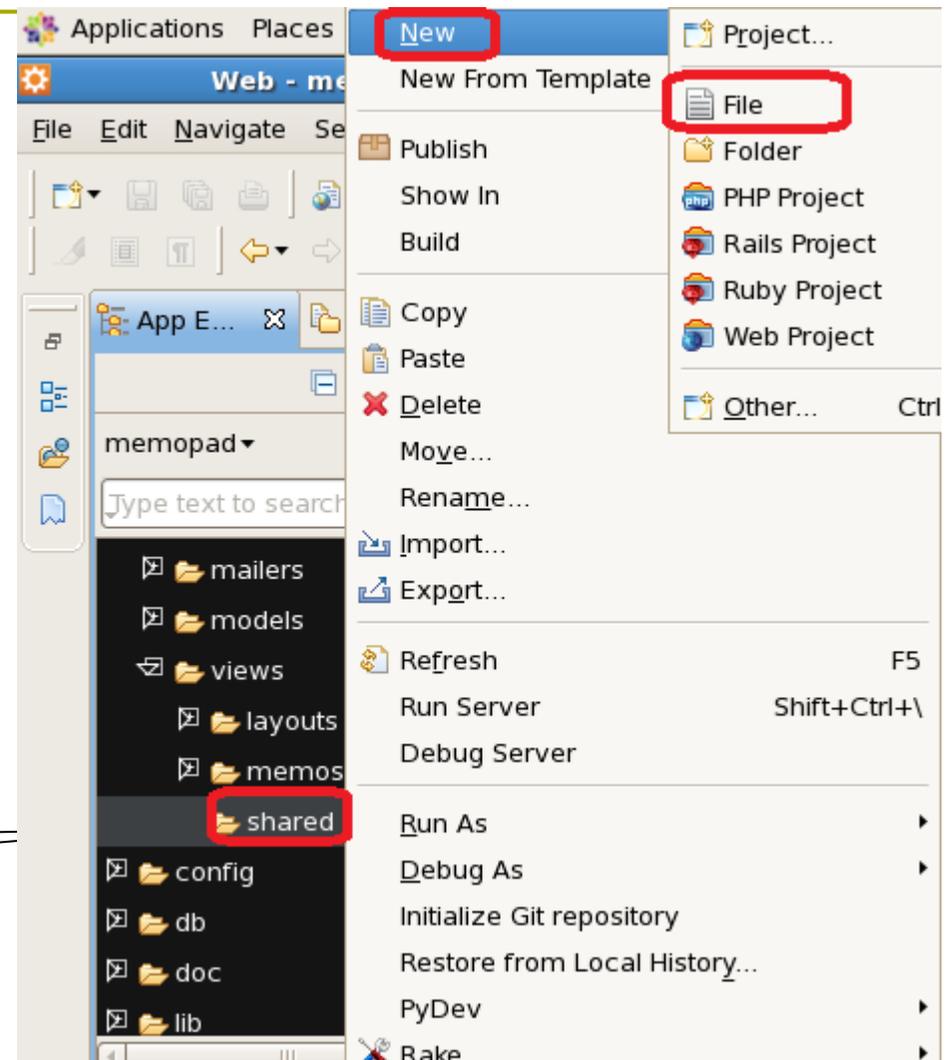
# Make Shared Folder



# Make `_menu_bar.html.erb` file

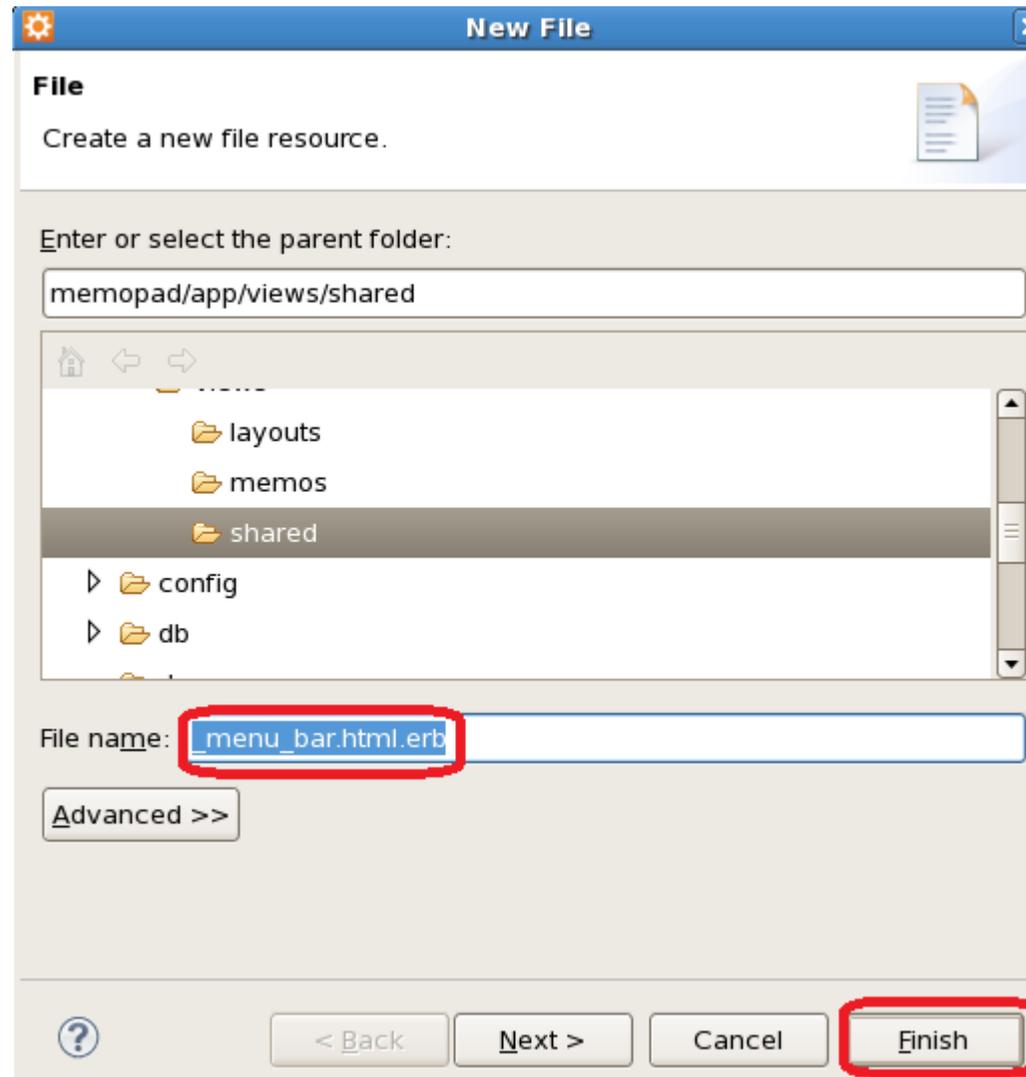
- In shared folder, right-click, then choose 'New', then 'File'

Right click



# Make \_menu\_bar.html.erb

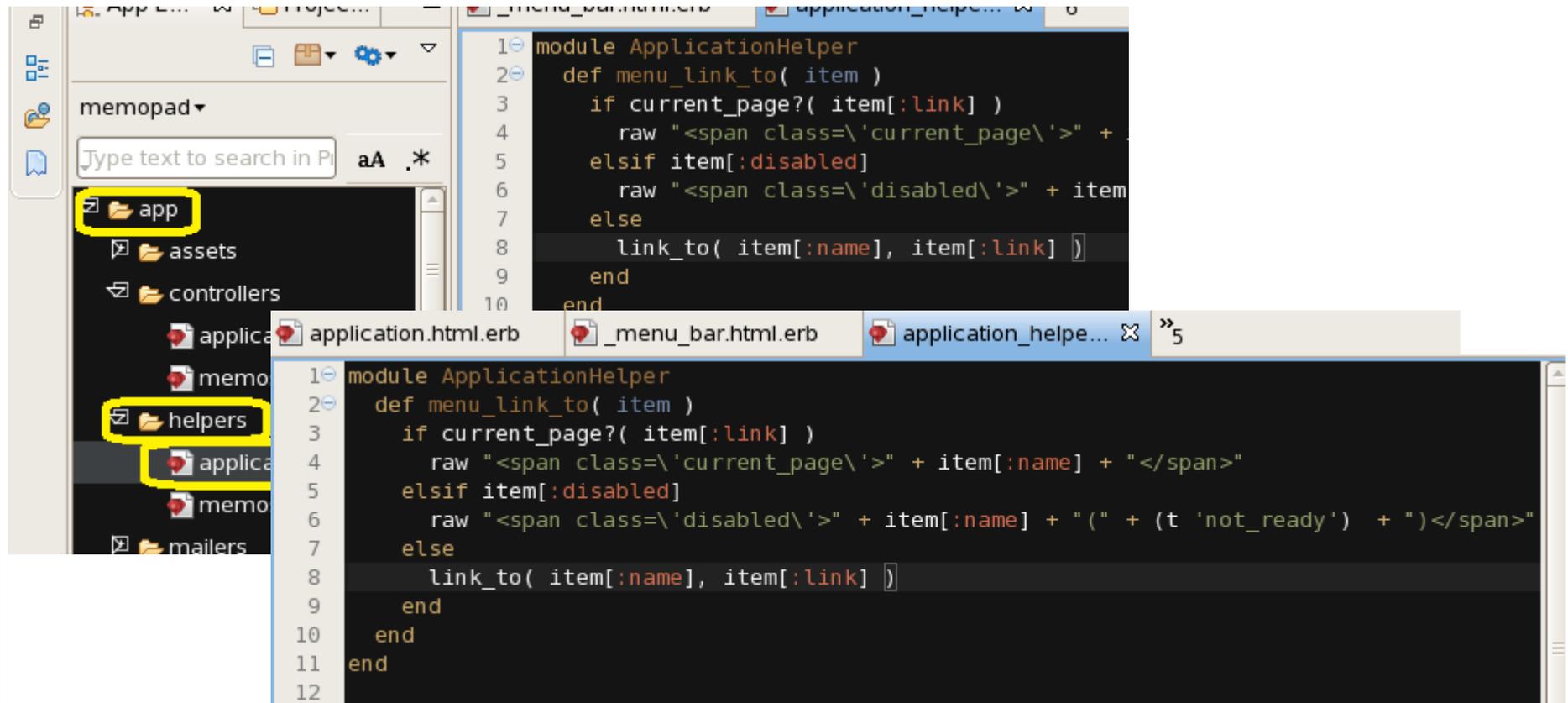
---





# Lastly, describe menu\_link\_to

- In application\_helper.rb, in app/helpers folder, describe menu\_link\_to method.

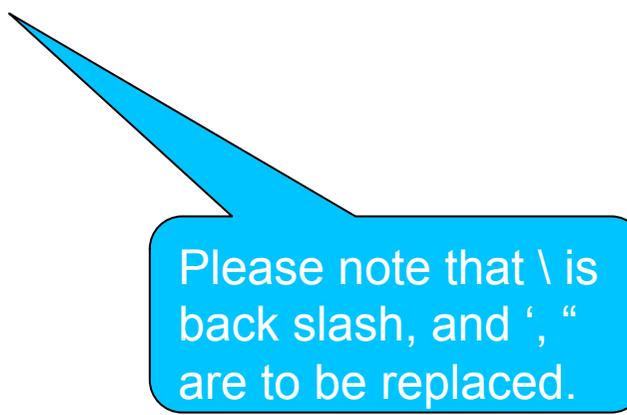


```
1 module ApplicationHelper
2   def menu_link_to( item )
3     if current_page?( item[:link] )
4       raw "<span class='current_page'>" +
5     elsif item[:disabled]
6       raw "<span class='disabled'>" + item
7     else
8       link_to( item[:name], item[:link] )
9     end
10  end
11 end
```

# Text file to copy and paste

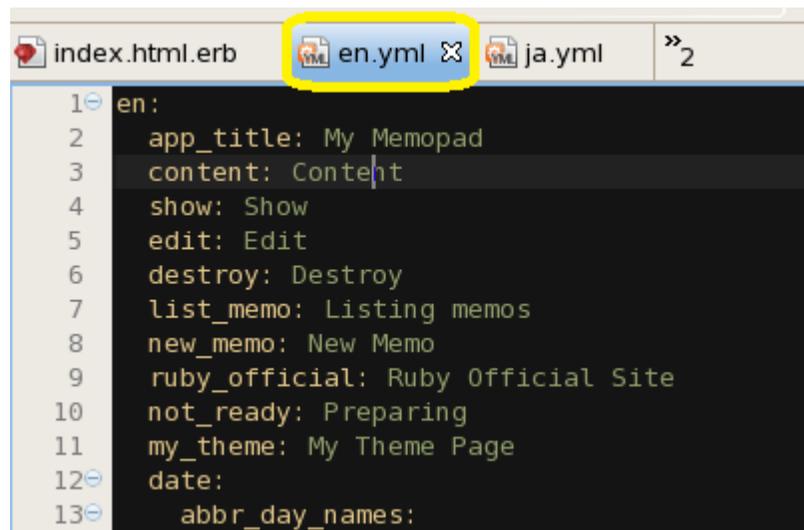
---

```
module ApplicationHelper
  def menu_link_to(item)
    if current_page?(item[:link])
      raw "<span class='current_page'>" + item[:name] + "</span>"
    elsif item[:disabled]
      raw "<span class='disabled'>" + item[:name] + '(' + (t 'not_ready')
+ "></span>"
    else
      link_to( item[:name], item[:link] )
    end
  end
end
end
```



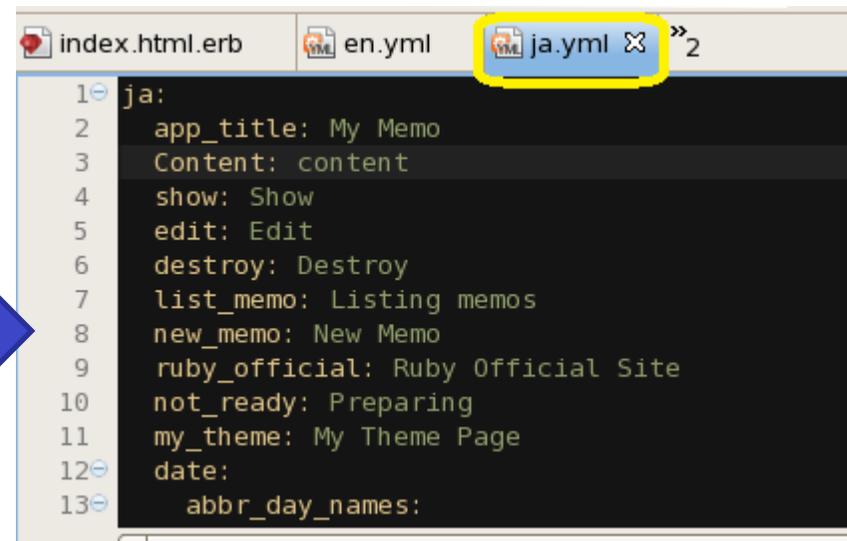
Please note that \ is back slash, and ' , " are to be replaced.

# Locale files (Same with Page 8)



```
1 en:
2   app_title: My Memopad
3   content: Conte|t
4   show: Show
5   edit: Edit
6   destroy: Destroy
7   list_memo: Listing memos
8   new_memo: New Memo
9   ruby_official: Ruby Official Site
10  not_ready: Preparing
11  my_theme: My Theme Page
12  date:
13  abbr_day_names:
```

Sorry, not ready

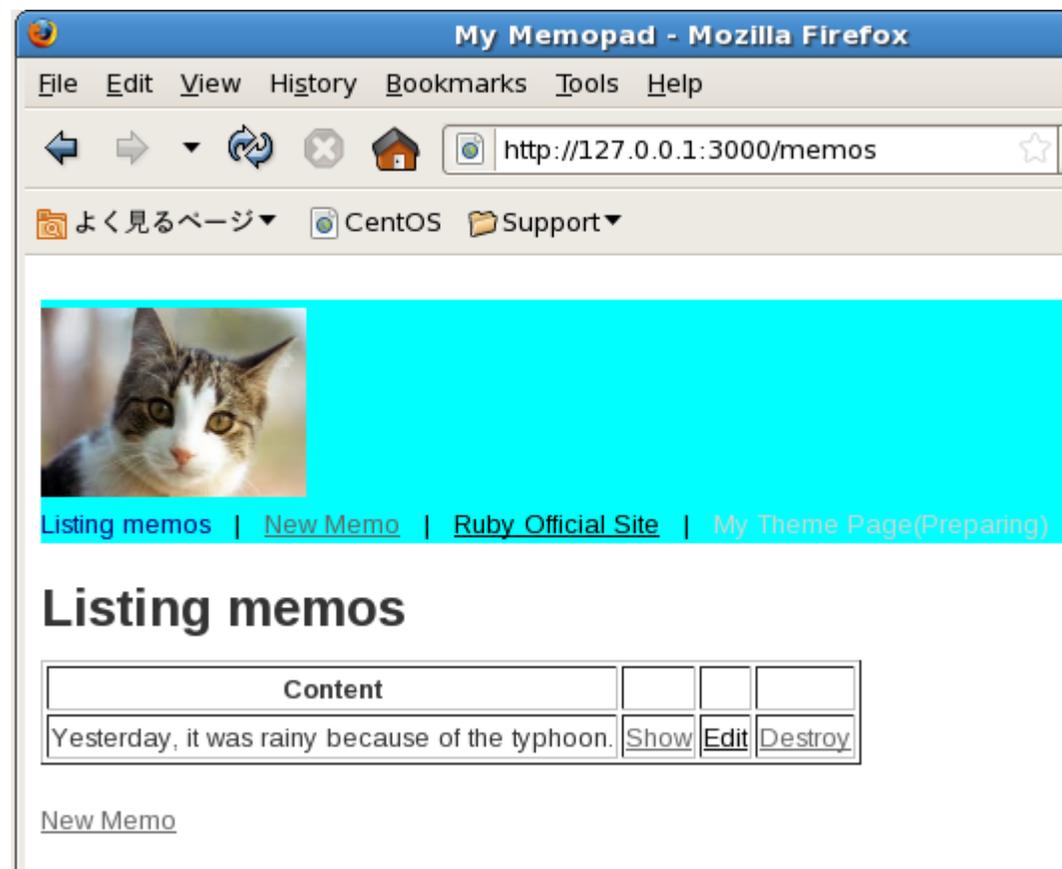


```
1 ja:
2   app_title: My Memo
3   Content: content
4   show: Show
5   edit: Edit
6   destroy: Destroy
7   list_memo: Listing memos
8   new_memo: New Memo
9   ruby_official: Ruby Official Site
10  not_ready: Preparing
11  my_theme: My Theme Page
12  date:
13  abbr_day_names:
```

# The screen now

---

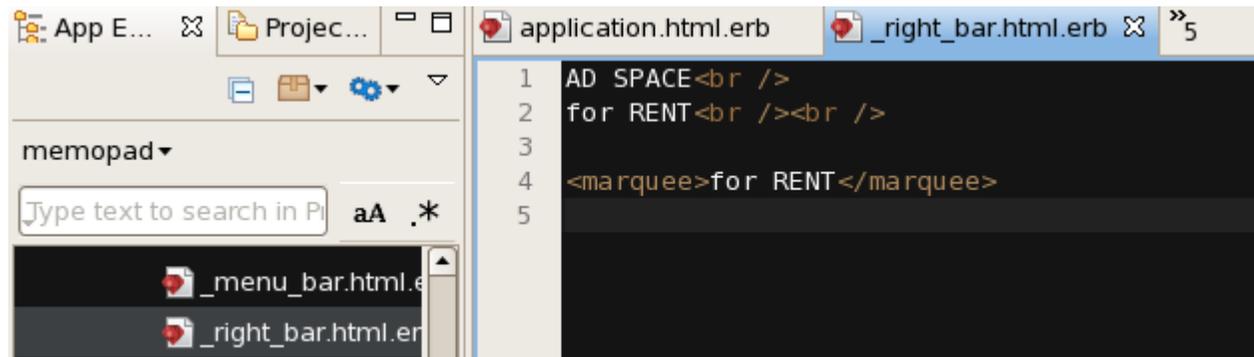
- Title image, menu, and two screen areas are displayed.



# Right side side-bar and footer

---

- ❑ A right side-bar and a footer are inserted just similar to the left side-bar.
- ❑ You can just try by yourself.



The screenshot shows a code editor with two tabs: 'application.html.erb' and '\_right\_bar.html.erb'. The '\_right\_bar.html.erb' tab is active and contains the following code:

```
1 AD SPACE<br />
2 for RENT<br /><br />
3
4 <marquee>for RENT</marquee>
5
```

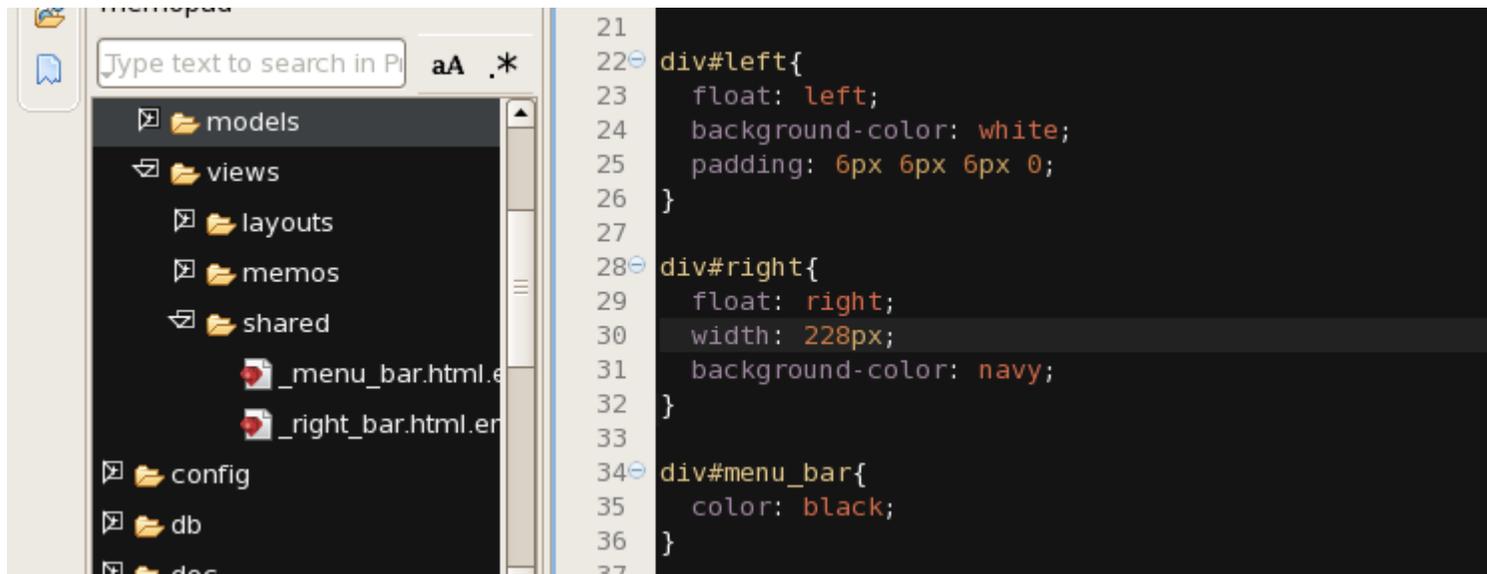
```
15 </div>
16 <div id="left">
17   <%= yield %>
18 </div>
19 <div id="left">
20   <%= render :partial => 'shared/right_bar' %>
21 </div>
22 </div>
23
```

# Css for right side bar

---

Please note that width for the left was removed.

Left bar tries to float into left side, and the right bar tries to float into right side.



The image shows a code editor window with a file explorer on the left and a code editor on the right. The file explorer shows a directory structure with folders like 'models', 'views', 'layouts', 'memos', 'shared', 'config', 'db', and 'doc'. The code editor shows the following CSS code:

```
21
22 div#left{
23     float: left;
24     background-color: white;
25     padding: 6px 6px 6px 0;
26 }
27
28 div#right{
29     float: right;
30     width: 228px;
31     background-color: navy;
32 }
33
34 div#menu_bar{
35     color: black;
36 }
37
```

# Sample screen for right side bar

My Memopad - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://127.0.0.1:3000/memos

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[Listing memos](#) | [New Memo](#) | [Ruby Official Site](#) | [My Theme Page\(Preparing\)](#)

## Listing memos

AD SPACE  
for RENT

Content			
Yesterday, it was rainy because of the typhoon.	Show	Edit	Destroy

[New Memo](#)

for REN

# What is CSS?

---

- CSS is a Cascading Style Sheet
- Tiny language designed to modify WEB pages easily and systematically
- ↓ The page below is very useful
- <http://www.htmq.com/csskihon/001.shtml>

# By changing CSS ...

```
16 div#header{
17   background-color: cyan;
18   padding-top: 4px;
19   border-top: 4px solid white;
20 }
21
```

```
16 div#header{
17   background-color: lime; ←
18   padding-top: 4px;
19   border-top: 4px solid white;
20 }
21
```



# Today's Theme

---

- ❑ Modify your WEB page by writing CSS file, for example, adding Advertisement in the right side-bar, or adding footer of copyright claim and so forth.
- ❑ Learn some other CSS keyword meanings.
- ❑ The goal is to make your WEB page sophisticated. Try and see the result by yourself.

## If you are absent for this day

---

- ❑ Please modify your screen using CSS.
- ❑ Include your application.html.erb file, and your scaffolds.css.scss file in the absence report, together with views/memos/index.html.erb file.
- ❑ Also include the screen shot.
- ❑ If you submit this report, your record is modified from absence to presence.

# Reference pages

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- ❑ There are so so so many good CSS learning site, so try to find your most favorite.
- ❑ WEB Page Design course for SUPER beginners.
- ❑ <http://park16.wakwak.com/~html-css/index.html>
- ❑ Reference of Style sheet
- ❑ <http://www.htmq.com/style/index.shtml#tex>