Assignment 2

Advanced Web Development

November/December 2015

You must create the following site consisting of 3 pages:

User Profile Page *(users.html)*

Animation Page *(animation.html)*

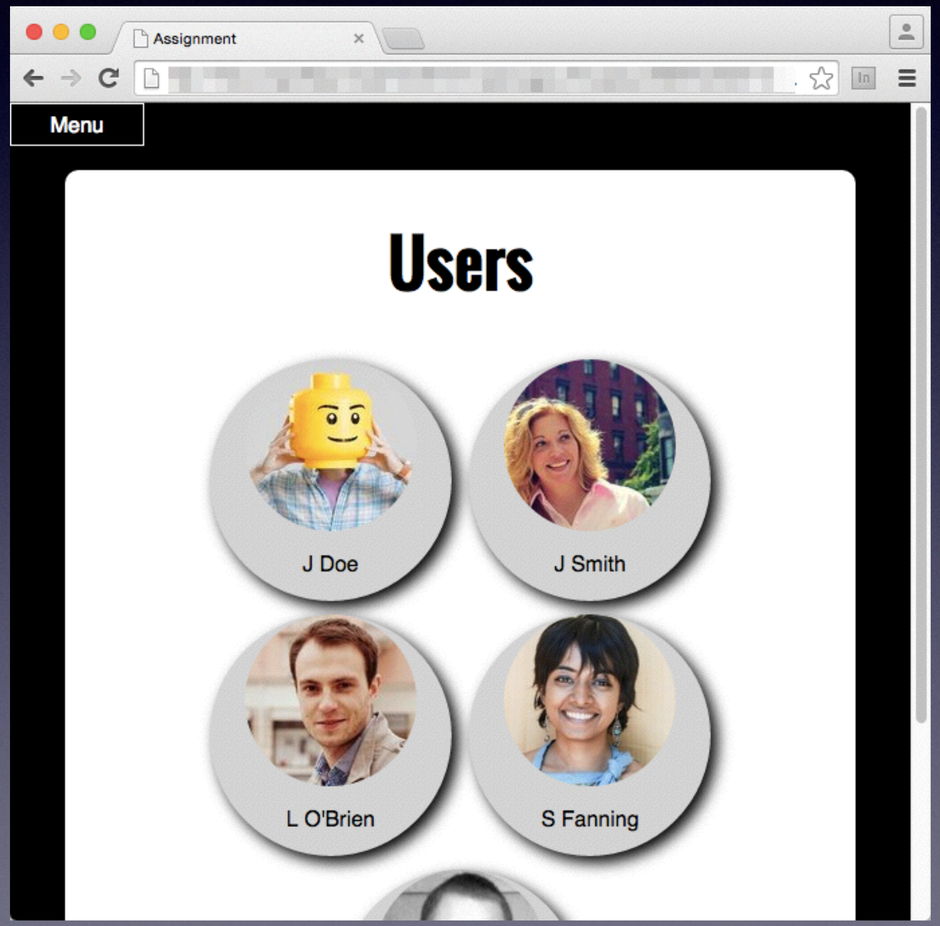
"*Cork News*" Page *(index.html)*

You must also implement a menu that switches between the pages.

Your site will also have to be responsive (as outlined in the following notes).

User Profile Page

This section must style names and profile pictures with CSS3 to look as shown below.



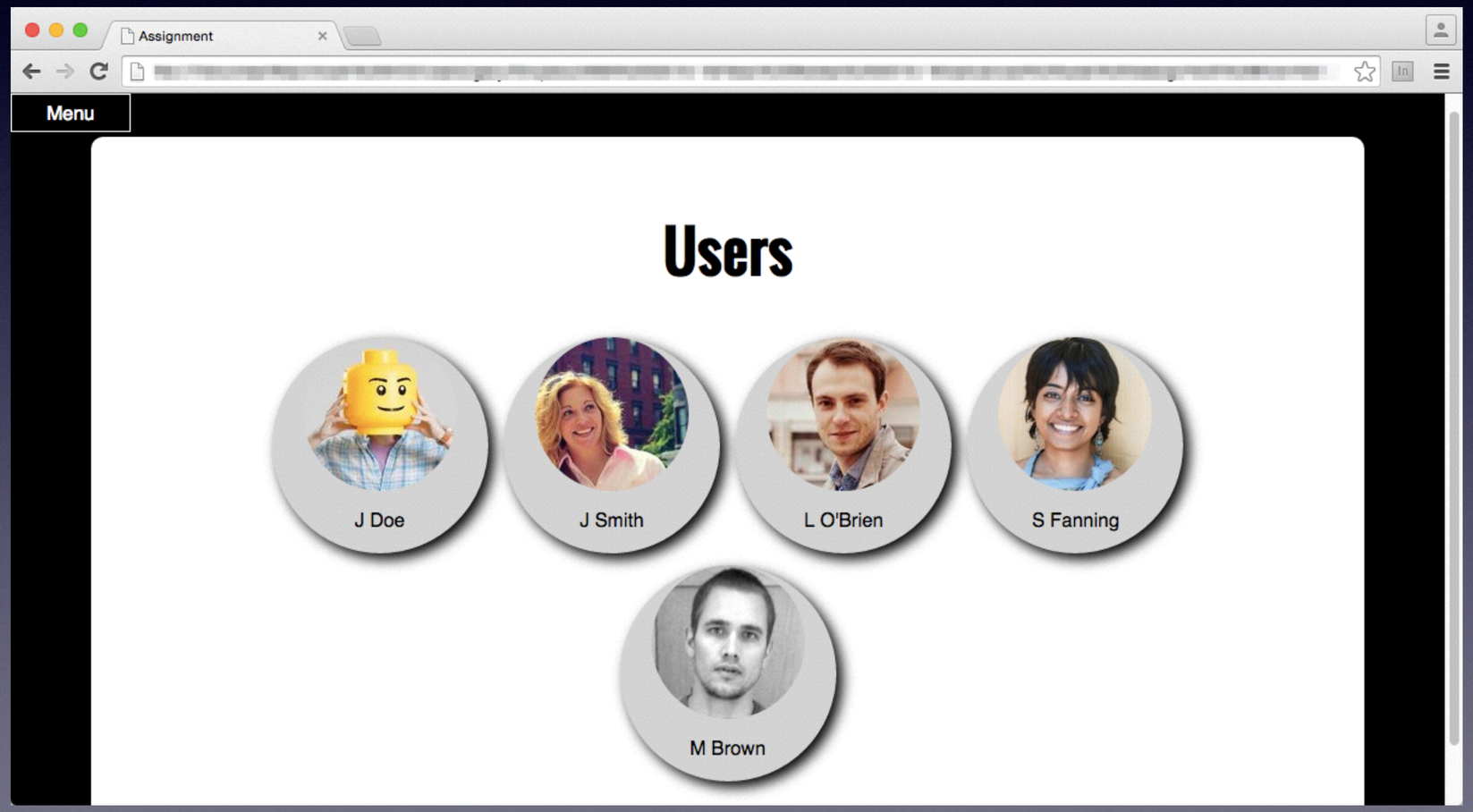
```
<ul id = "users">

  <li>
    <img  src = "128.jpg">
    <div class  = "data">J Doe</div>
  </li>


  <li>
    <img  src = "128-2.jpg">
    <div class  = "data"> J Smith</div>

  </li>


  <li>
    <img src = "128-3.jpg">
    <div class  = "data"> L O'Brien</div>
  </li>



  <li>
    <img  src = "128-4.jpg">
    <div class  = "data"> S Fanning</div>
```

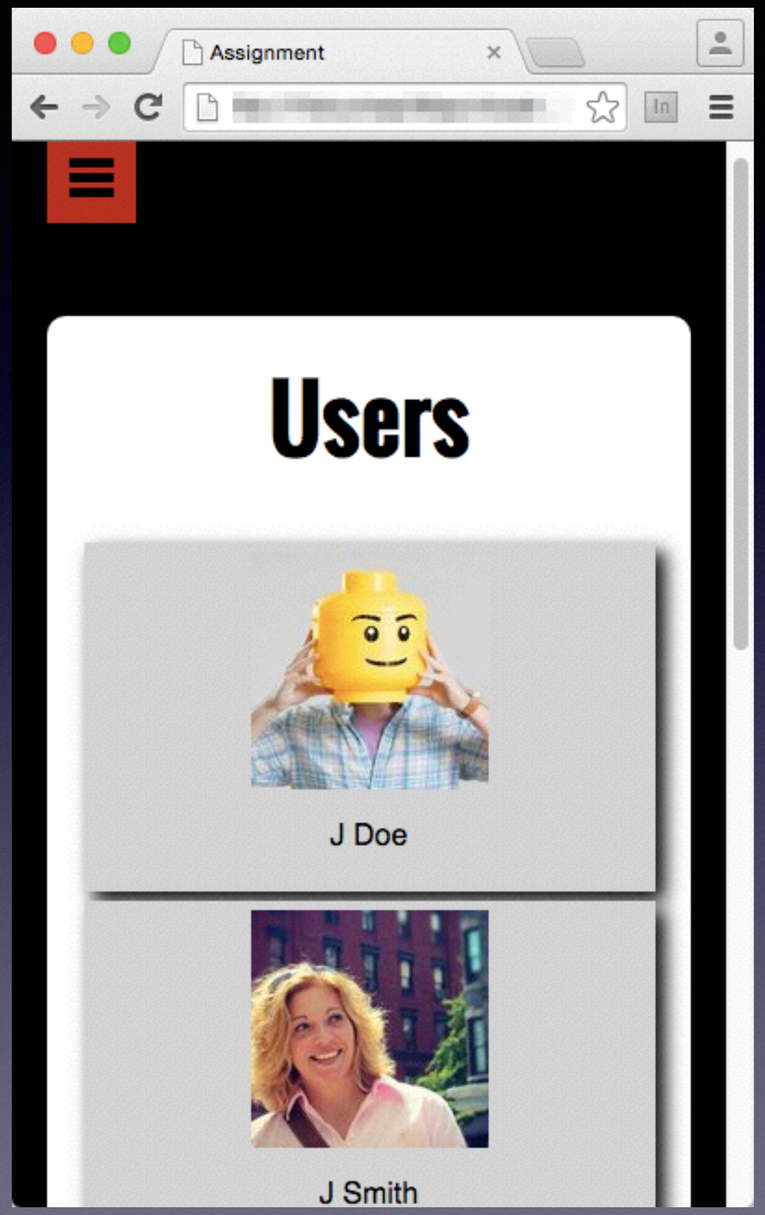
You **must** use this provided HTML extract. The only thing you can change is the **src** property of the **<img>** tags and the user names.

You can find profile pictures here or use your own:

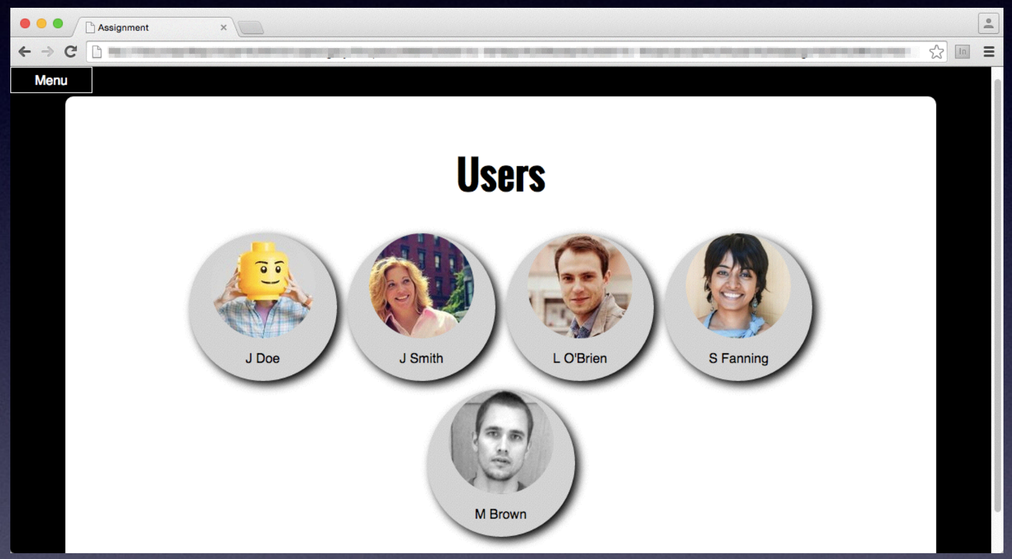
http://uifaces.com

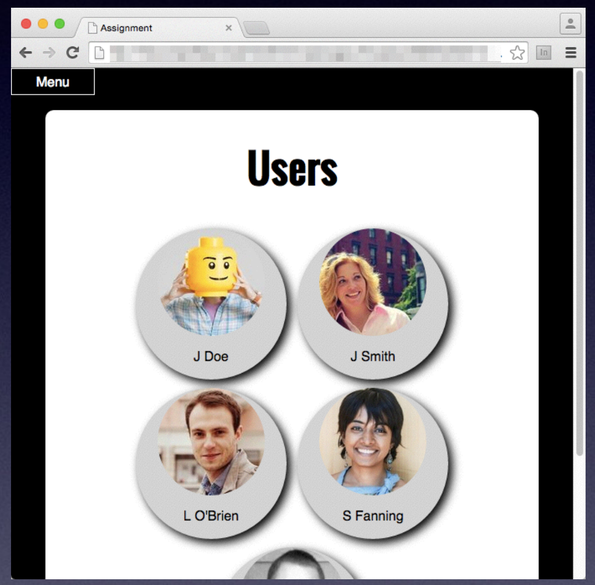
The user elements are centred and will fit as many in a row as possible.

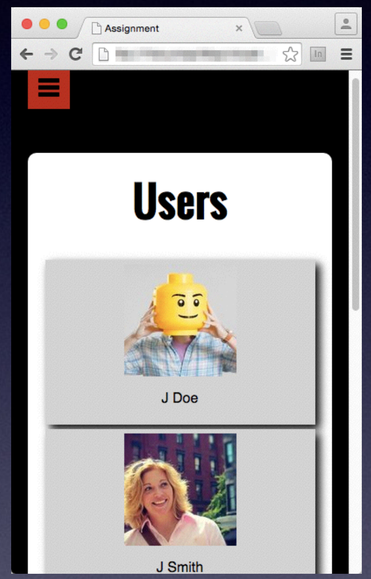




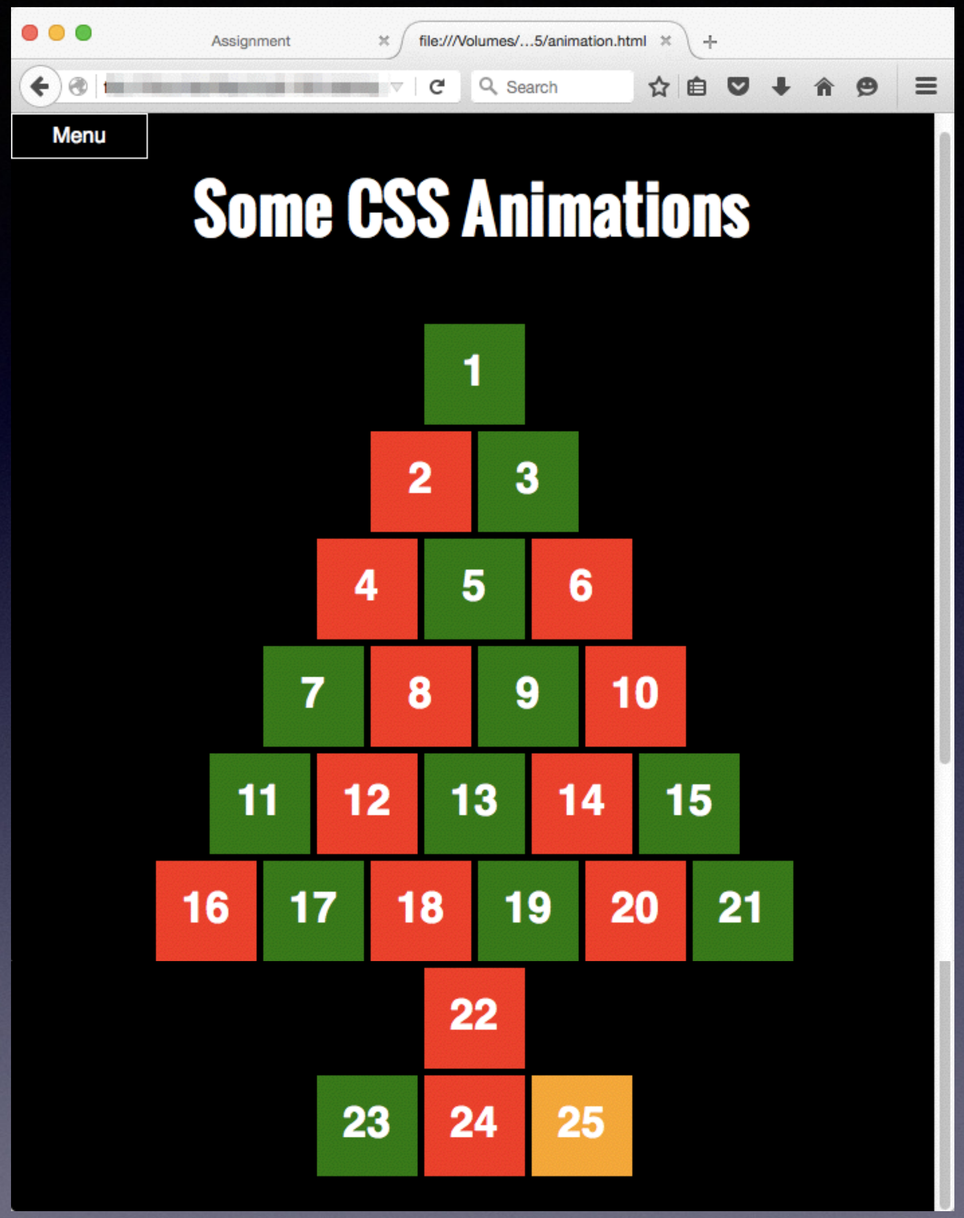
For smaller widths use this rectangular format (with one profile per row).


Assignment
Menu
Users
J Doe
J Smith
L O'Brien
S Fanning
M Brown


Assignment
Menu
Users
J Doe
J Smith
L O'Brien
S Fanning


Assignment
Users
J Doe
J Smith

Animation Page



Christmas Countdown pages, based on advent Calendars, are a popular way of disseminating content/articles in December.

E.g. https://24ways.org

We will take a more visual approach here. You must create the following page using the provided HTML extract. You must achieve the design and animation effect without changing that HTML.

This is the code you will be using .

```
<ul id = "calendar">
   <li>   <div class = "door">1</door> </li>
   <li>  <div class = "door">2</div> </li>
   <li>   <div class = "door">3</div> </li>
   <li>   <div class = "door">4</div> </li>
   <li>   <div class = "door">5</div> </li>
   <li>   <div class = "door">6</div> </li>
   <li>   <div class = "door">7</div> </li>
   <li>   <div class = "door">8</div> </li>
   <li>   <div class = "door">9</div> </li>
   <li>   <div class = "door">10</div> </li>
   <li>   <div class = "door">11</div> </li>
   <li>   <div class = "door">12</div> </li>
   <li>   <div class = "door">13</div> </li>
   <li>   <div class = "door">14</div> </li>
   <li>   <div class = "door">15</div> </li>
   <li>   <div class = "door">16</div> </li>
   <li>   <div class = "door">17</div> </li>
   <li>   <div class = "door">18</div> </li>
   <li>   <div class = "door">19</div> </li>
   <li>   <div class = "door">20</div> </li>
   <li>   <div class = "door">21</div> </li>
   <li>   <div class = "door">22</div> </li>
   <li>   <div class = "door">23</div> </li>
   <li>   <div class = "door">24</div> </li>
   <li> <div class = "scroller">Happy 25th of
 December Day!</div>
         <div class = "door">25</div> </li>
</ul>
```

Each day on the calendar is represented by a <li> element.

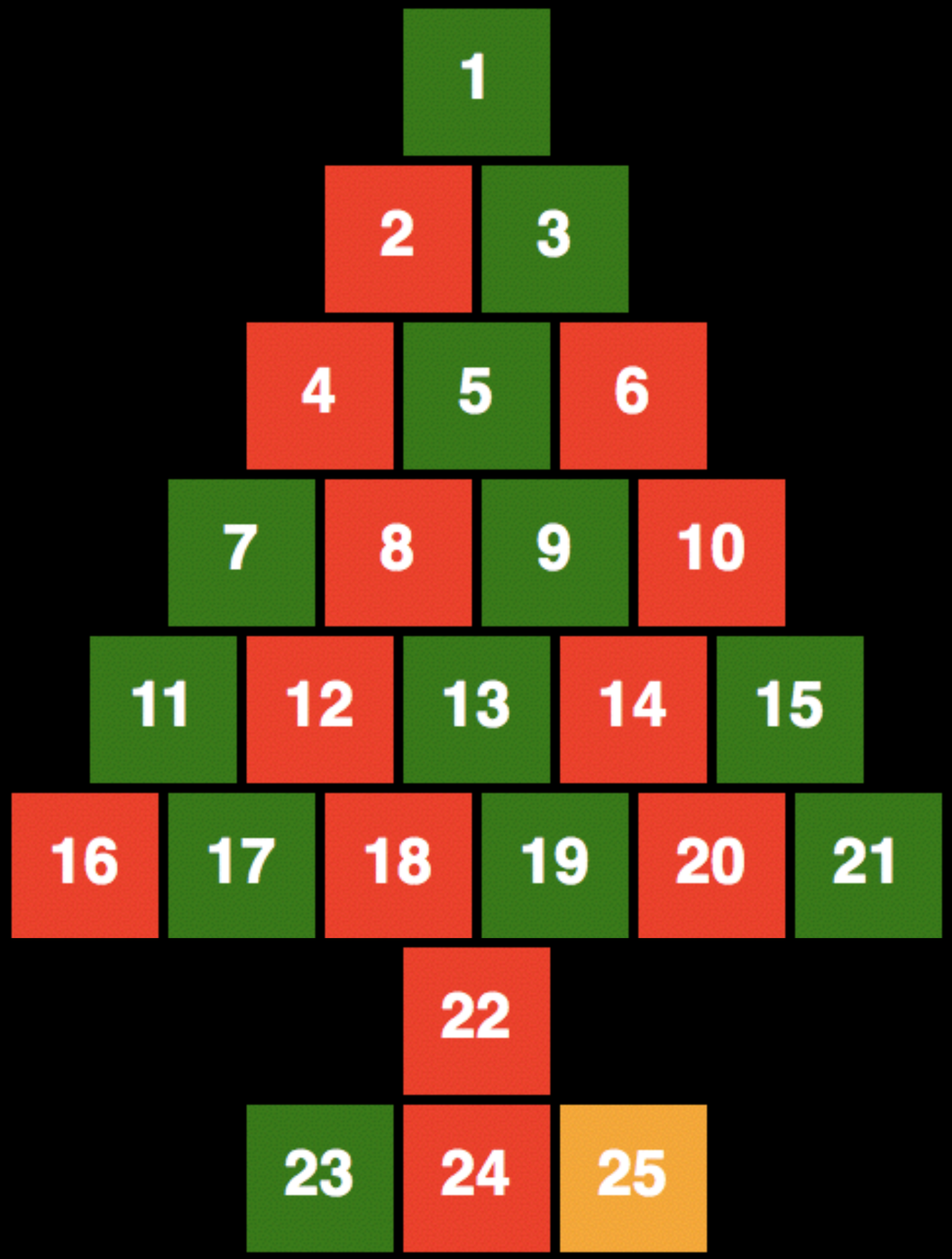
```
<li>   <div class = "door">8</div> </li>
```

This represents the actual door on the calendar (and includes the day of the month it represents).

```
<li>   <div class = "door">8</div> </li>
```

Each day should alternate between a red and green background.

Except the 25th which should be orange.



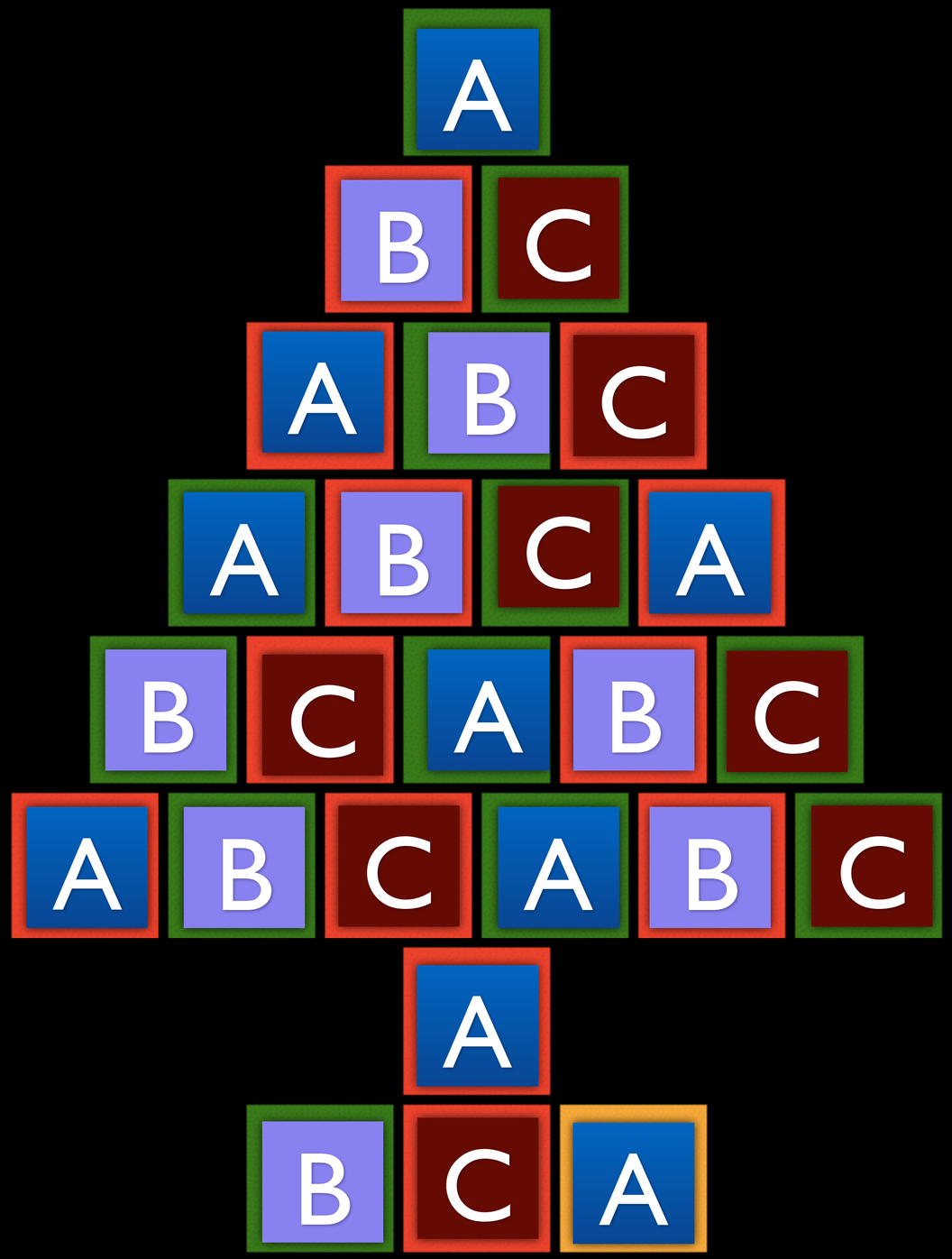
When you hover over a day its door should "open". I.e slide to one side.

Behind each door is a simple animation. You need only create 5 different animations.

Assume you have 3 different types of animation: A, B, C , D and E

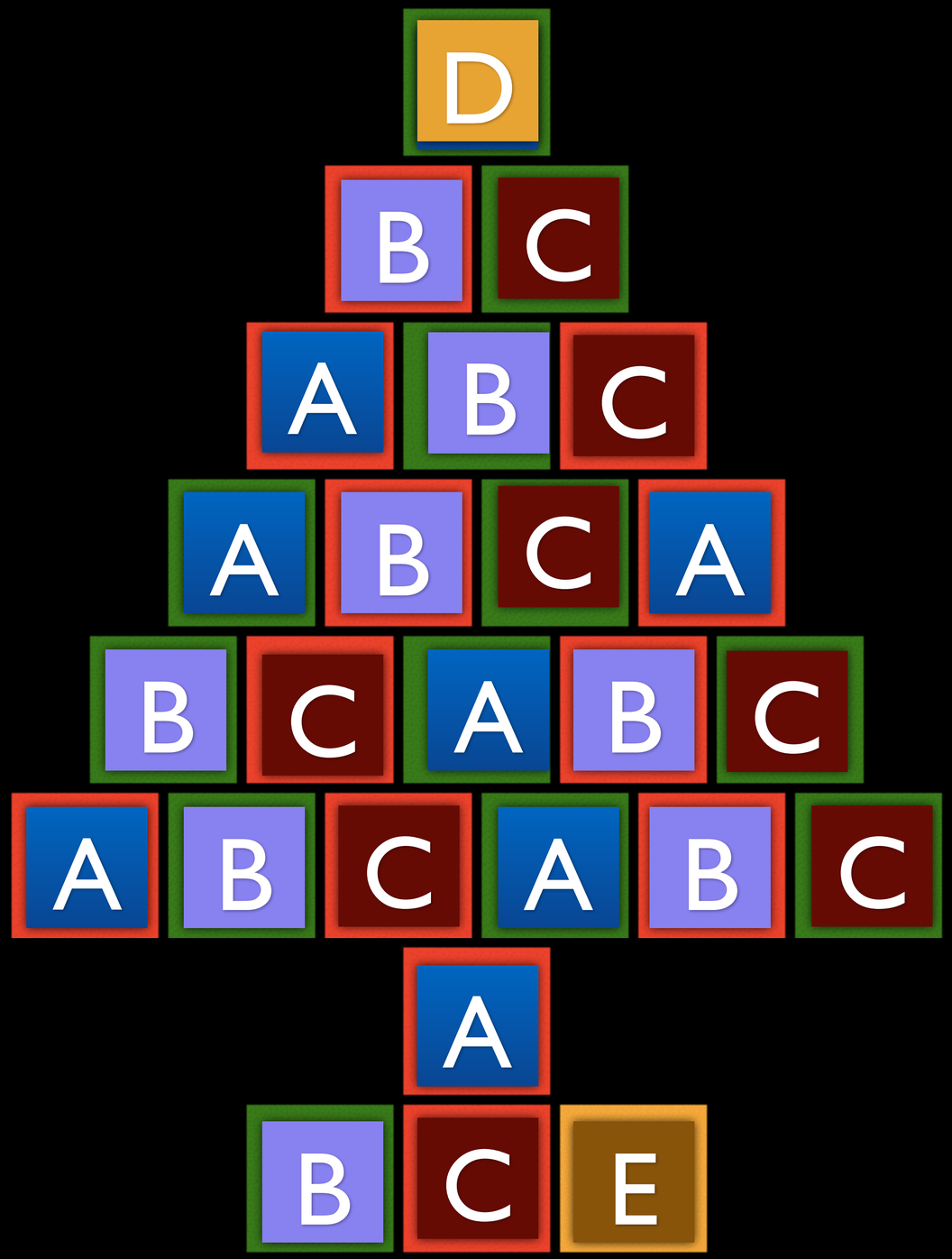
Every 3rd "Day" should have the same animation.

(**:nth-child()** can help with this)



There are two exceptions to this: D E

In the case of these *days* you can use the cascade to override the previous declaration.



Animation A

These *days* have a flying toaster animation.

Note: the background colour here is different to previous screen shots.

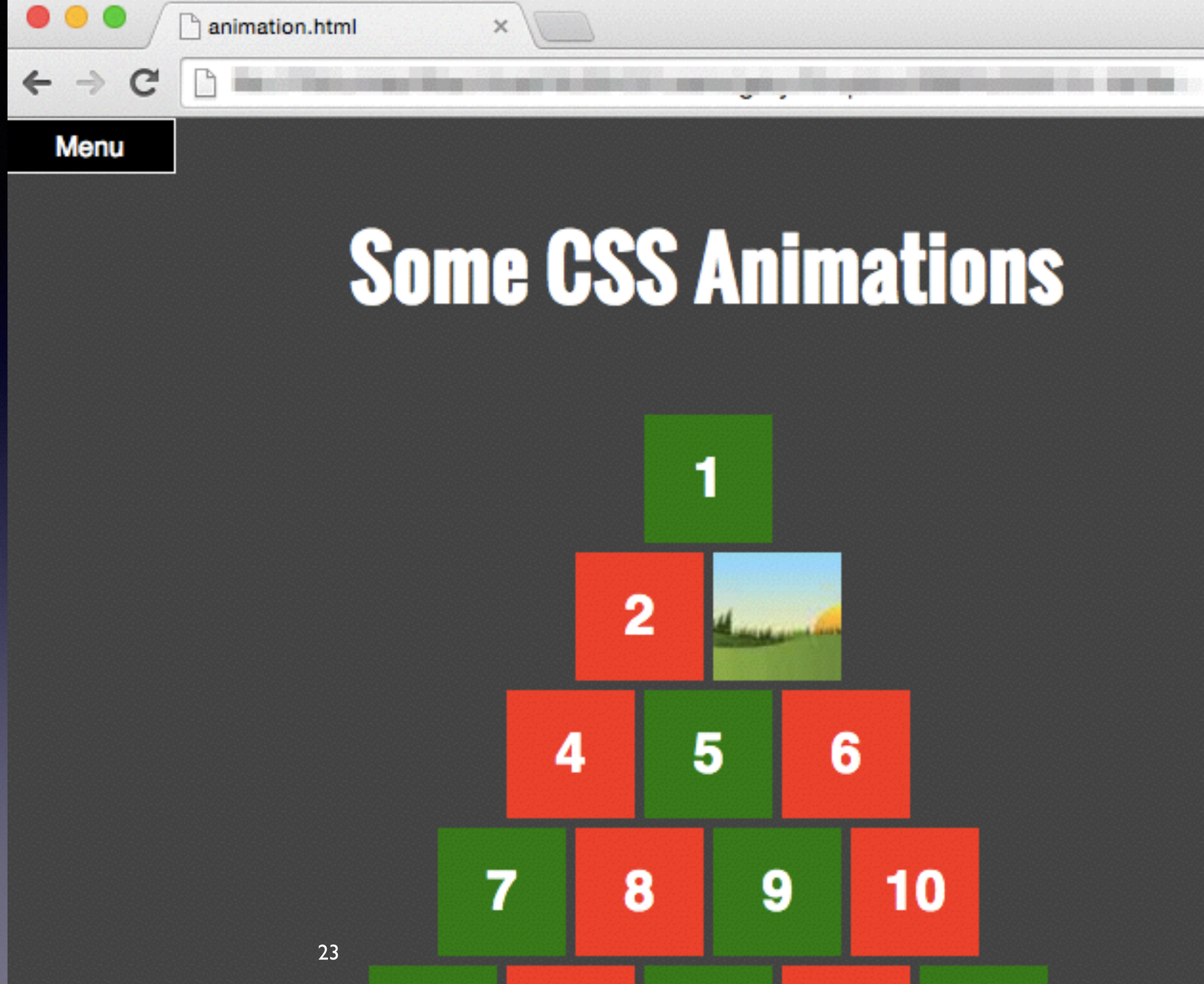
Animation B

Another sprite animation: A man walking left.

Animation C

A scrolling landscape.

In this case you can just move the position of a background image that is larger than the visible area of the element.

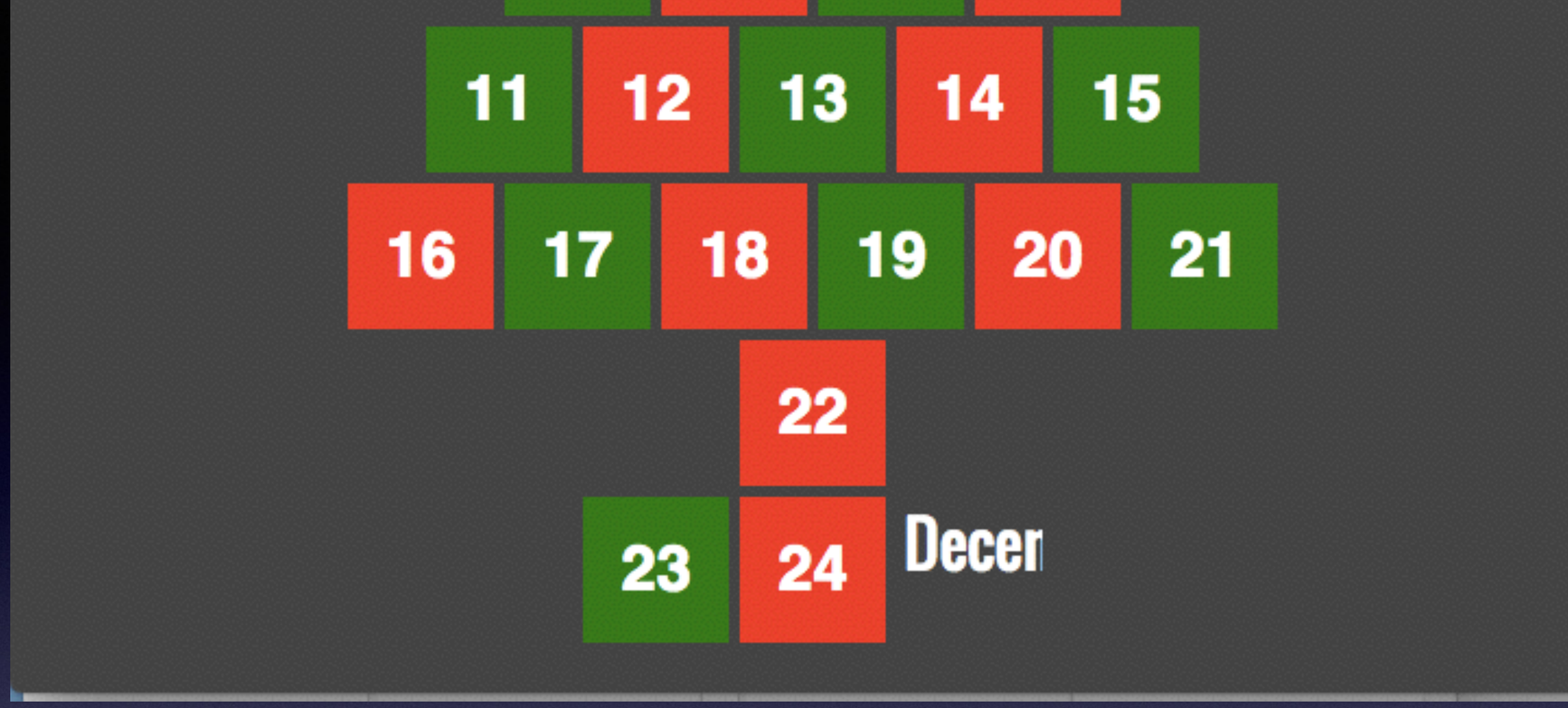


Animation D

A sprite animation of a fire.

Animation E

Scroll a (with the class *scroller*) inside the day's <li>



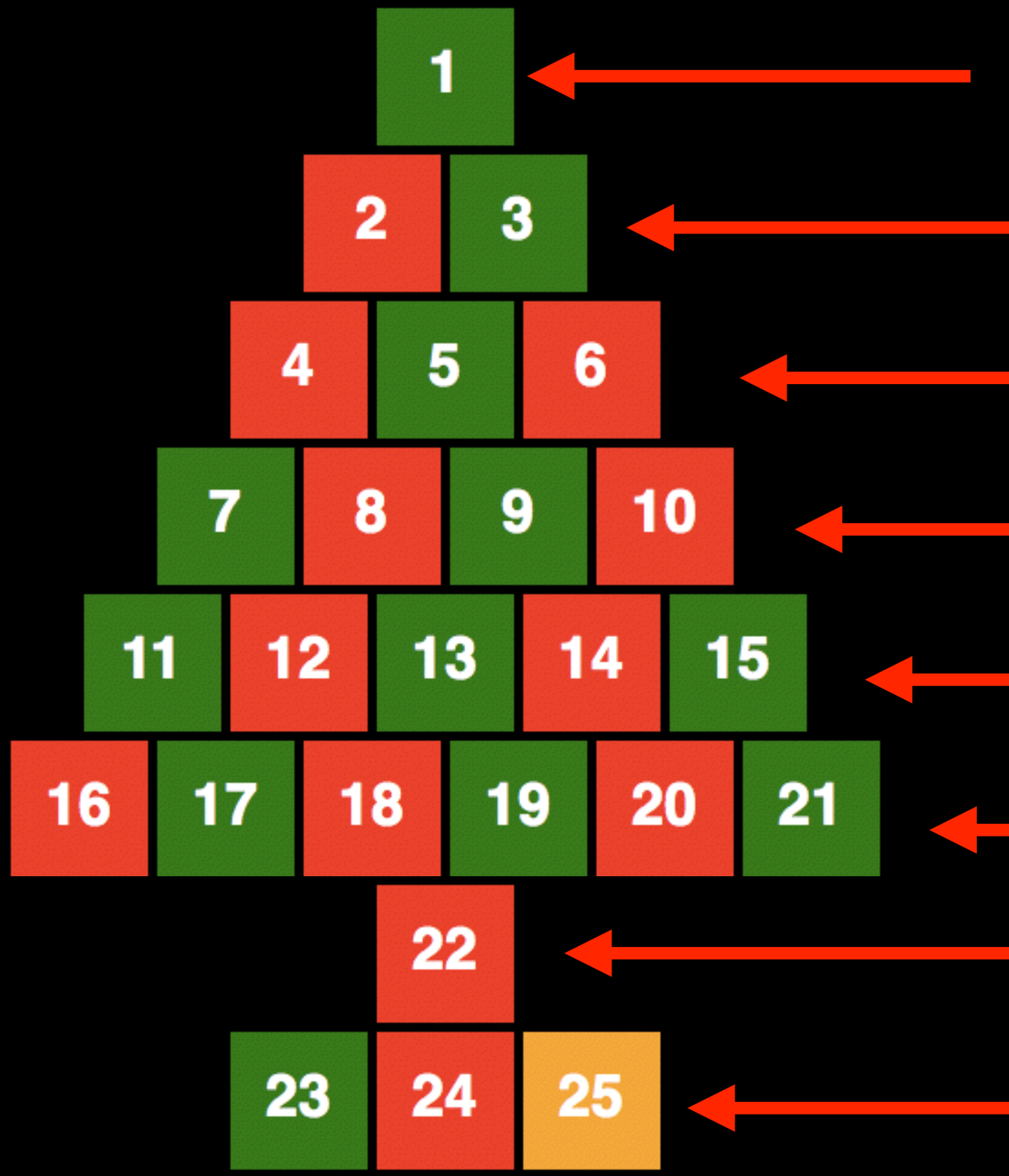
Note that this last <li> has slightly different contents to the other.

```
<li>
    <div class = "scroller">Happy 25th of December Day!</div>
    <div class = "door">25</div>
</li>
```

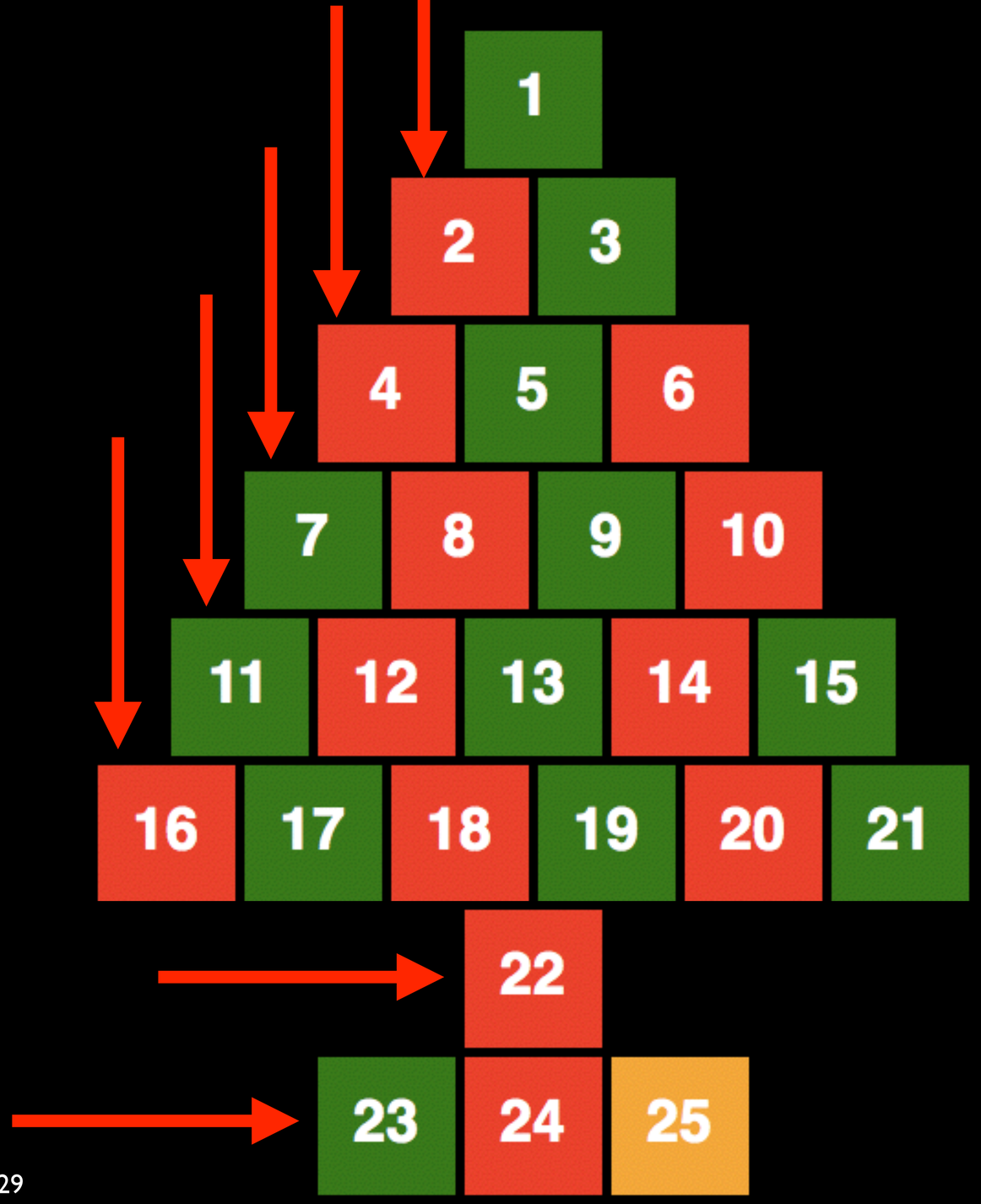
See the Technical Notes document for tips on how these can be implemented

Layout Tips

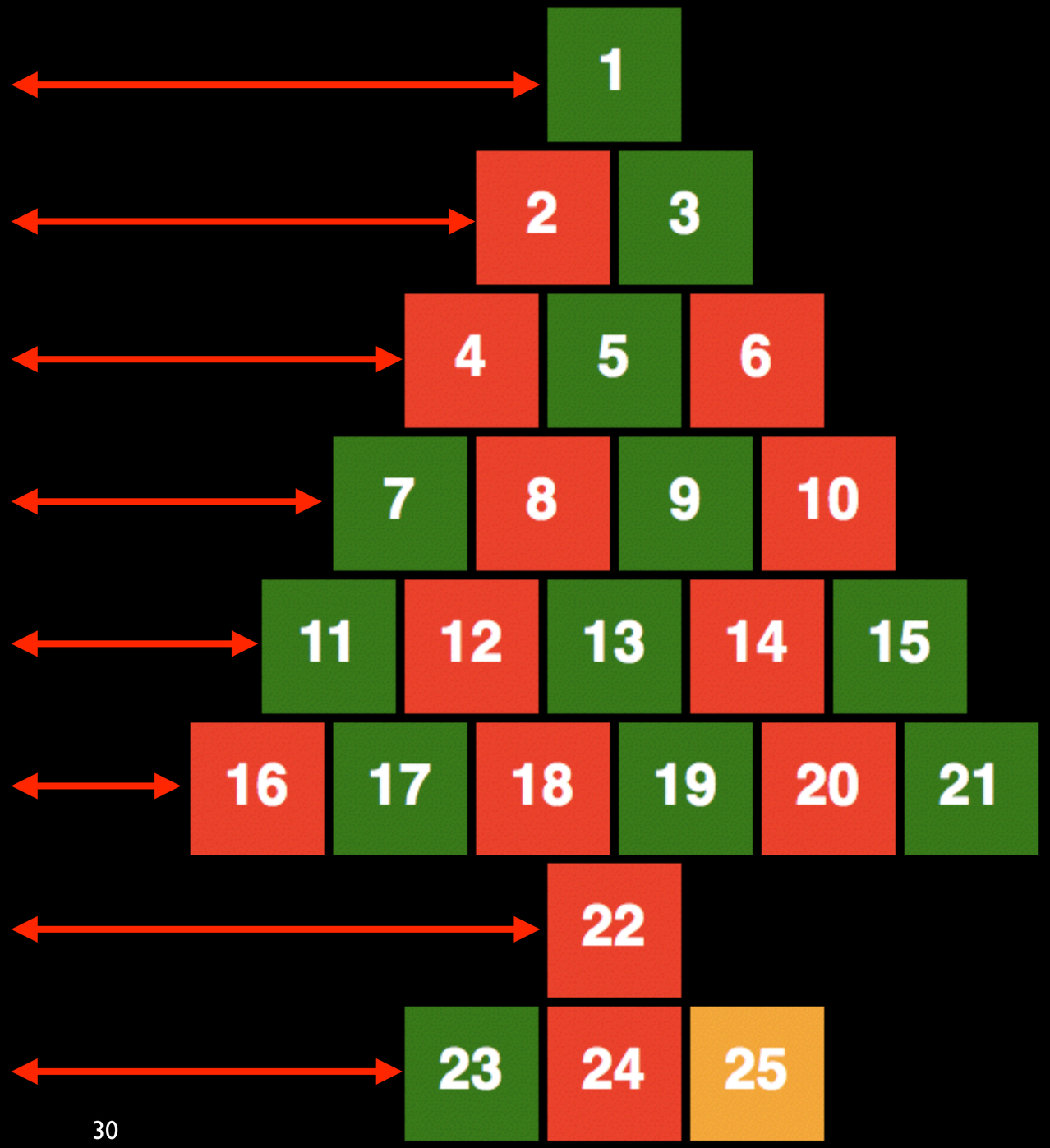
Elements can float to the left.



Using :nth-child() you can identify specific <li> elements to make them clear the left margin.



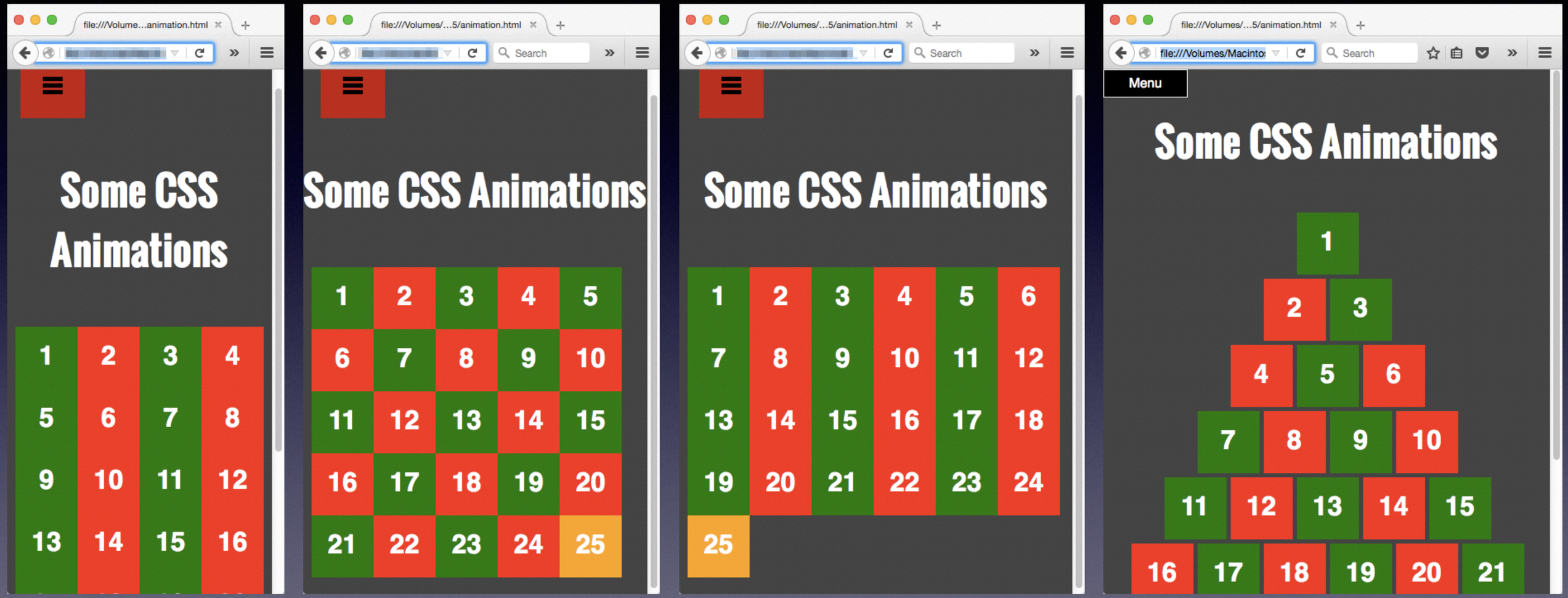
To create the shape you can increase the margin on the left for specific <li> elements.



This layout obviously won't work for narrower windows.

In that case the days should form a grid (i.e. the **margin** and **clear** properties we discussed need not be set).

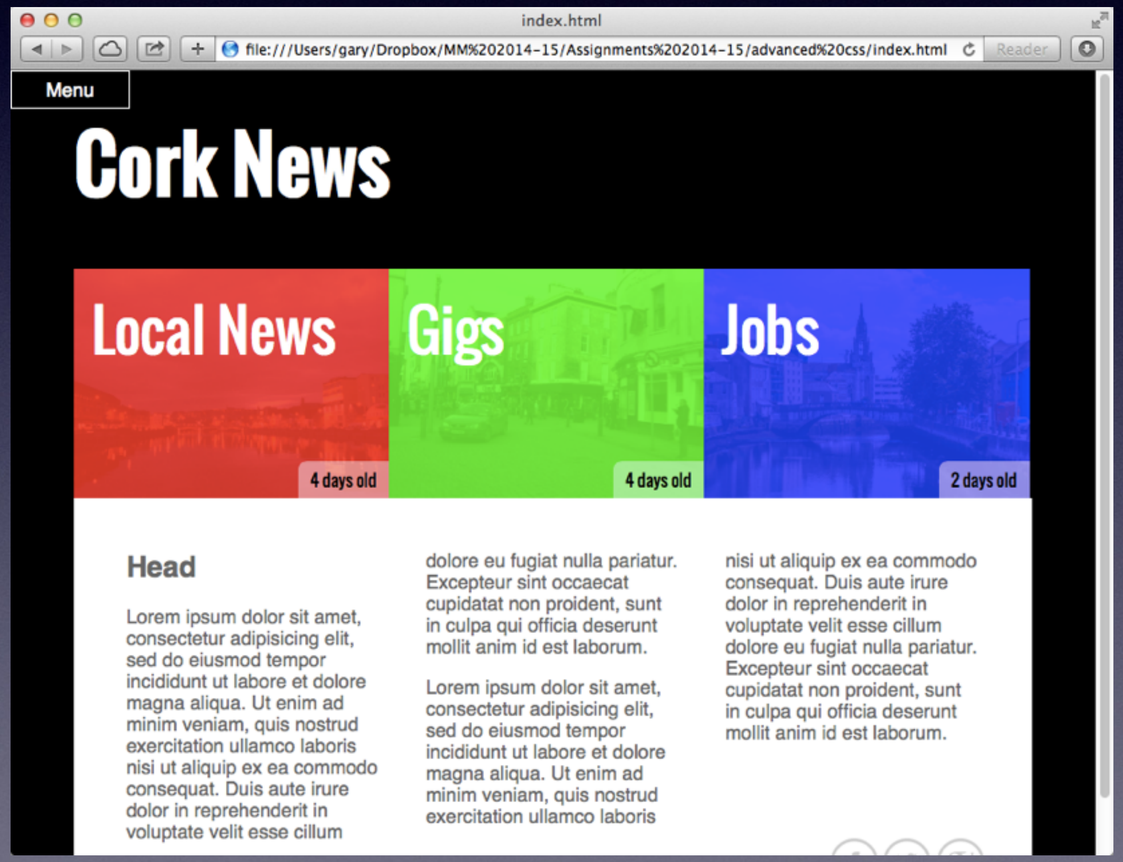
Make sure that your breakpoint allows for the tree version of the layout to always have enough room to be displayed.

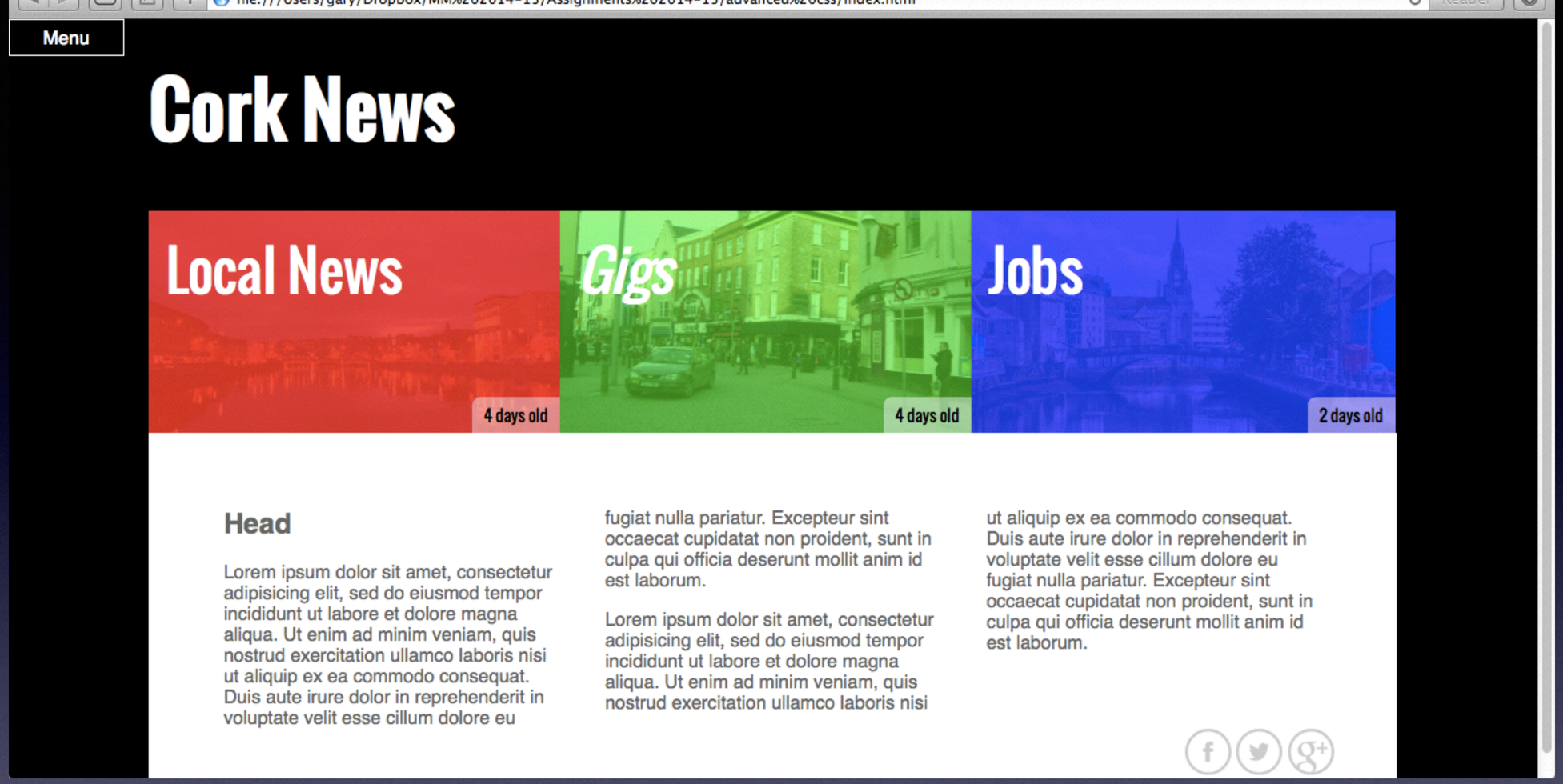


In this example there is only one breakpoint needed.

"Cork News" Page

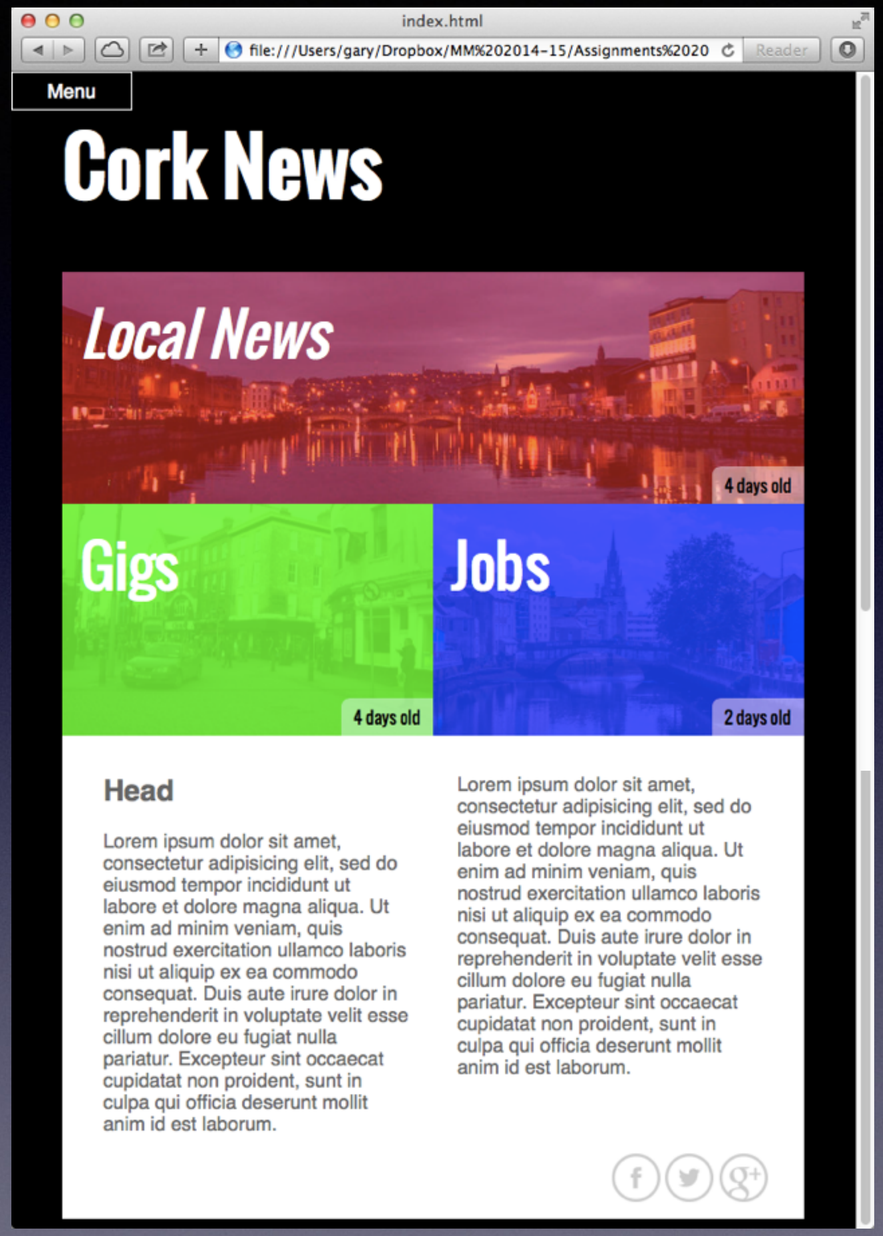
Create the page as shown below. For large devices this page has a 3 column layout.



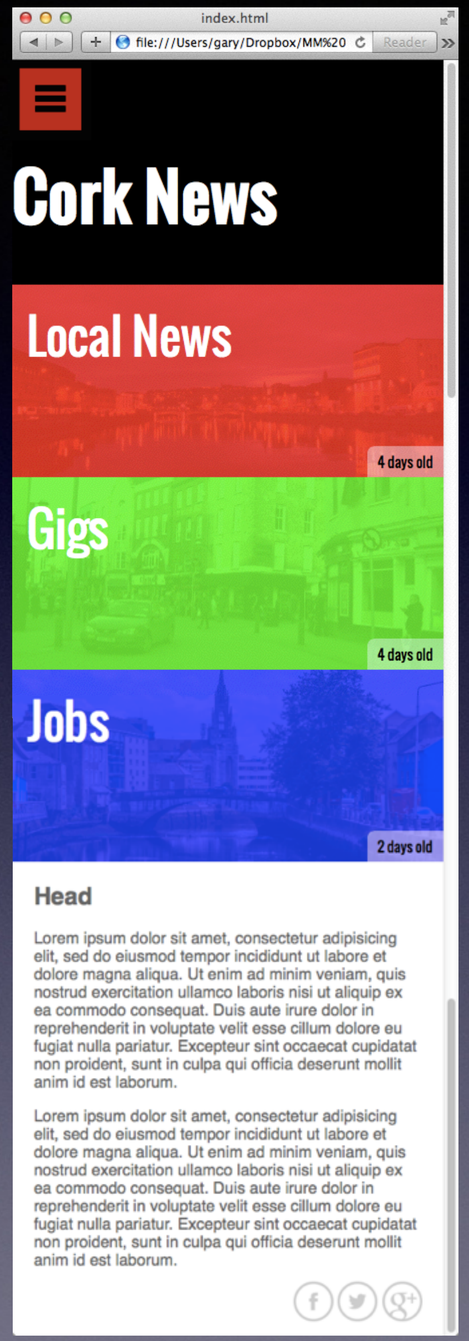


For much wider devices the design becomes fixed width to avoid expanding any further.

For medium size devices it should be a two column layout.



For smaller devices it should be one column.



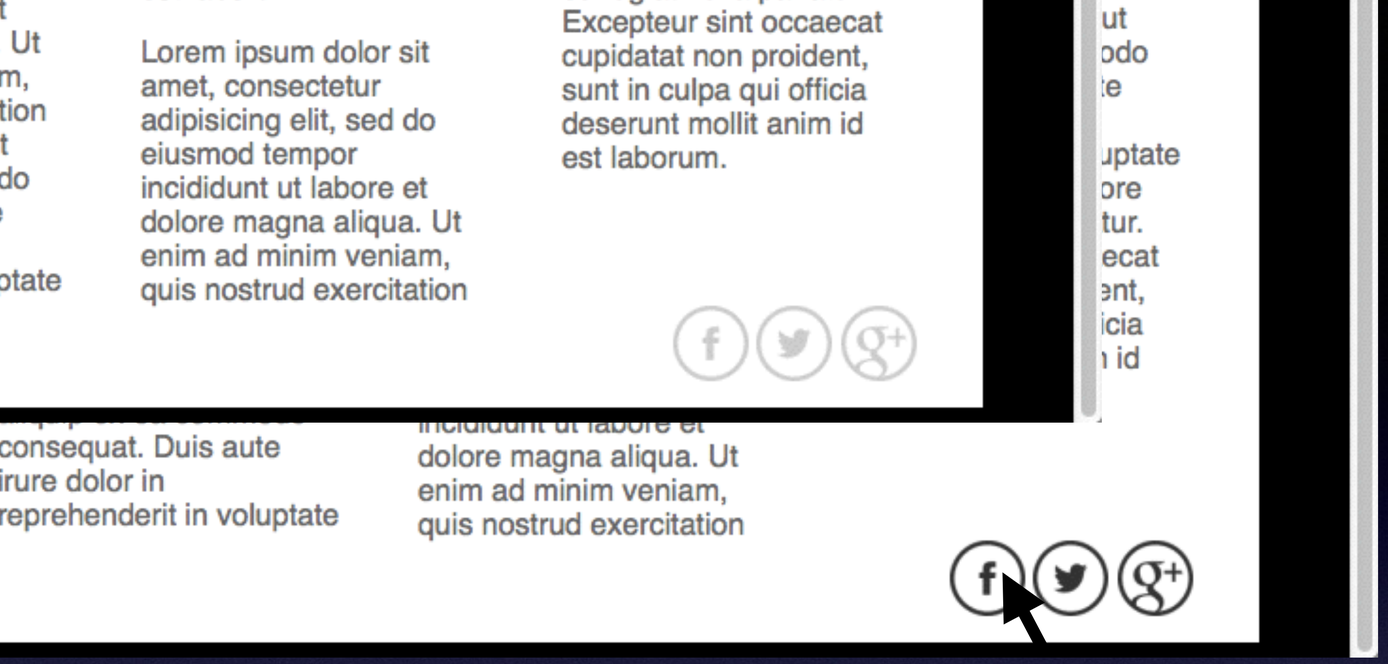
Regardless of the size on screen the local menu options should have background images that scale with the page. I.e. the maximum amount (and *most relevant* part) of the image should be visible regardless of the size given to it.

Local menu items should have a semi-transparent coloured layer over the image. This should be achieved with CSS.

Hovering over the menu item should make the layer more transparent and italicise the text. The whole menu item (not just the text) should act as a link (but need not go to any URL in particular - i.e. you can use **`href = ""`**)

You must overlay the number of days since the menu category was updated on the menu item.

It has a semi-transparent background, rounded corner, and should not trigger the hover event on the menu item.



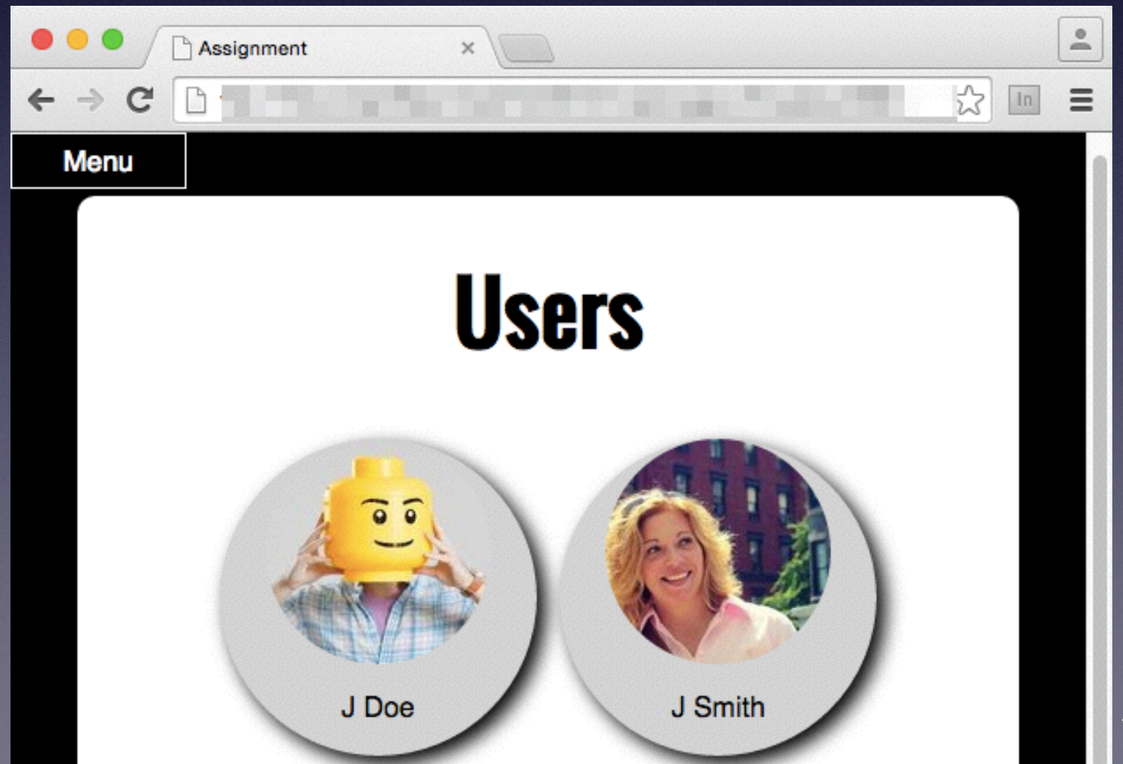
Place social media items in the bottom left hand corner underneath the text.

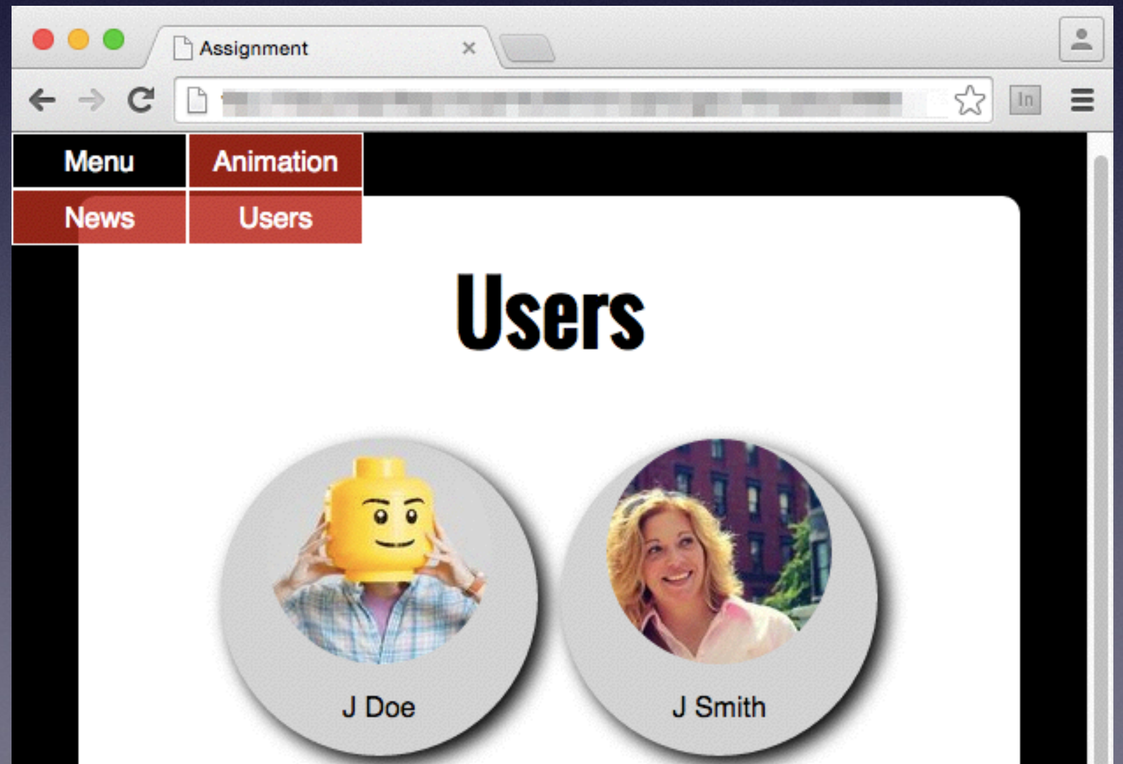
Hovering over these icons should cause them to fade in (see included movies for example).

Fonts, Colours and images can be chosen by you.

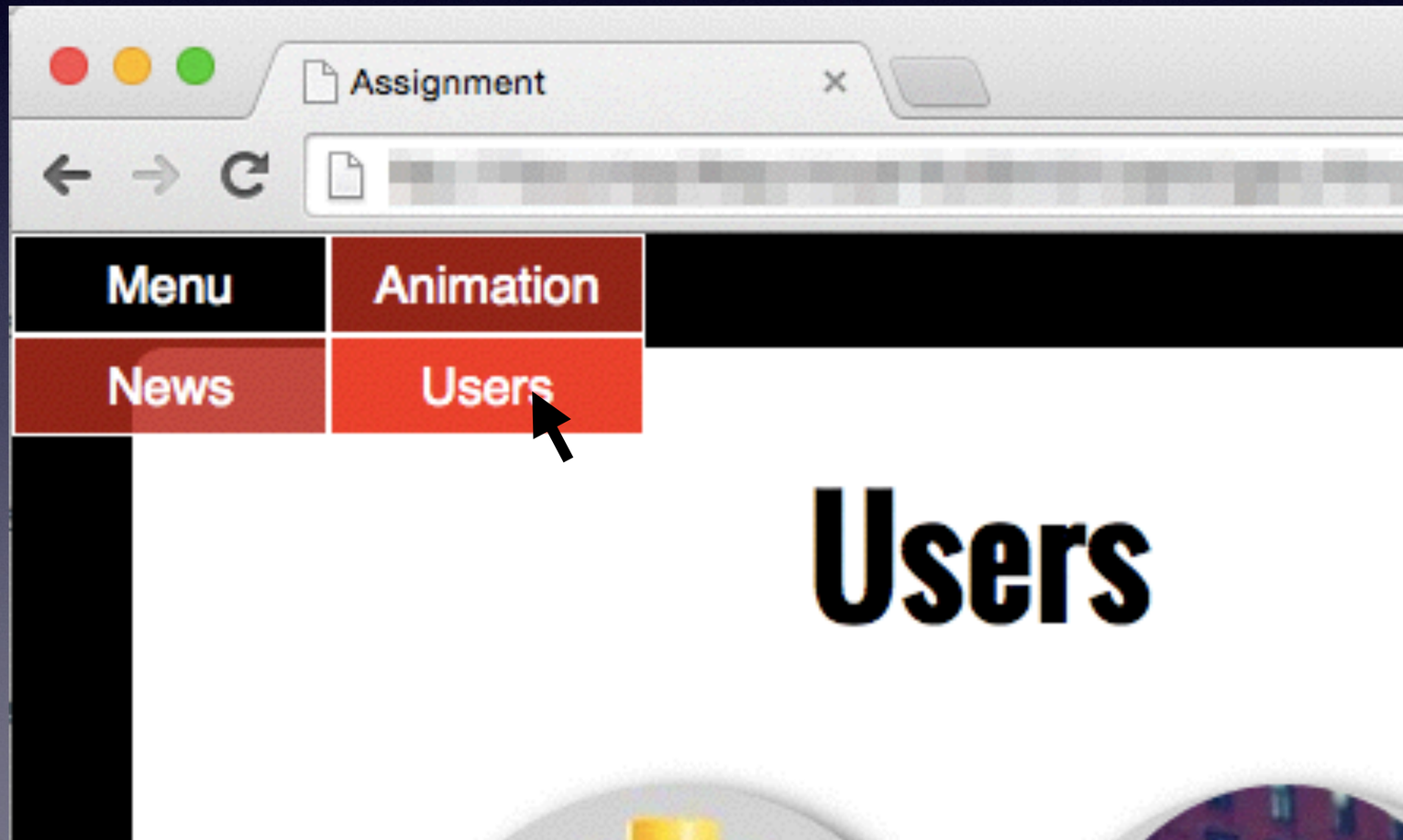
Menu

Clicking on the menu button reveals the menu options (see included movies for animation effect). If the menu is already open, clicking on it will hide the options.



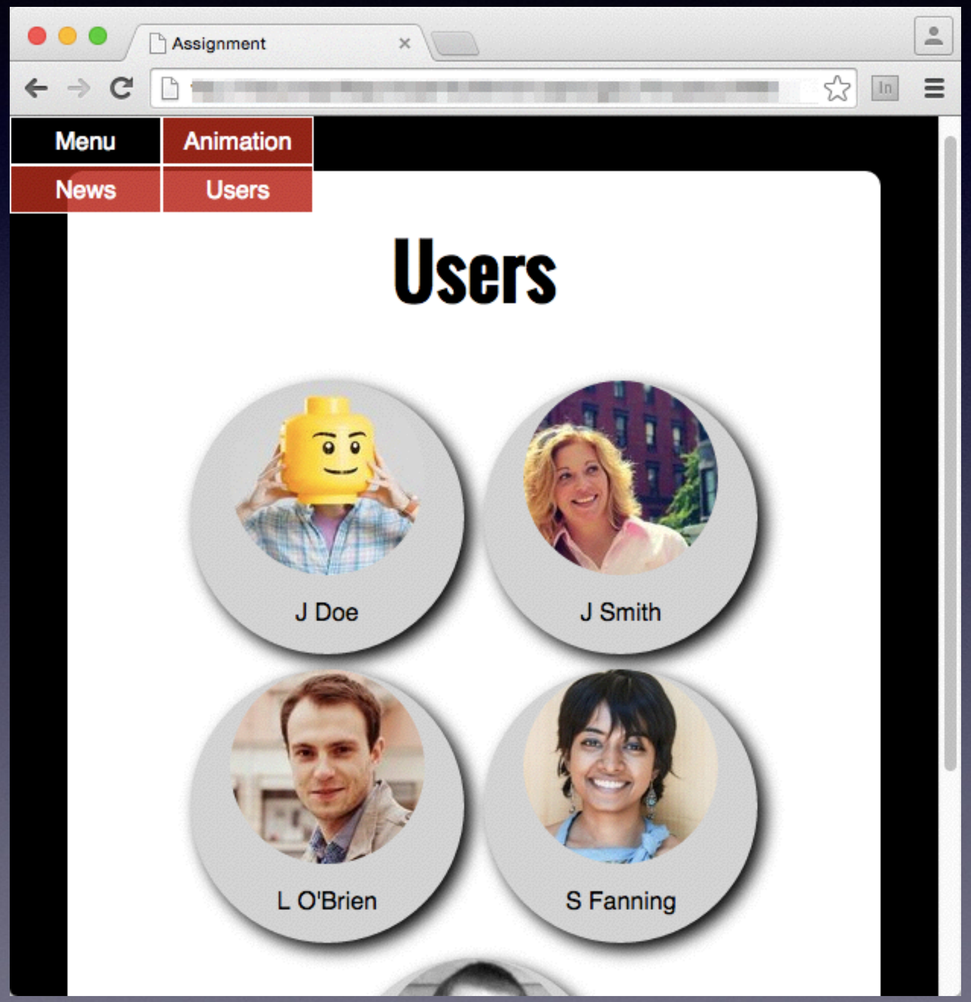


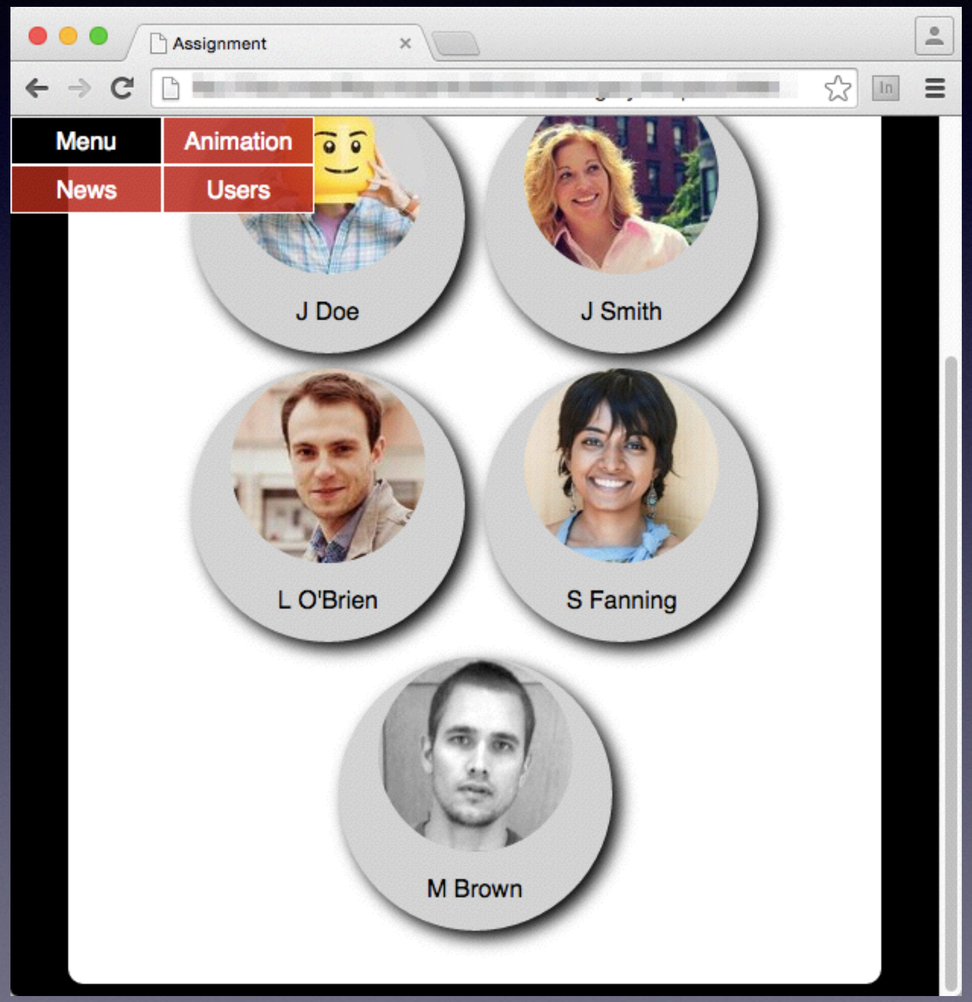
The menu item backgrounds are semi-transparent. Moving the mouse over a menu item makes it fully opaque.



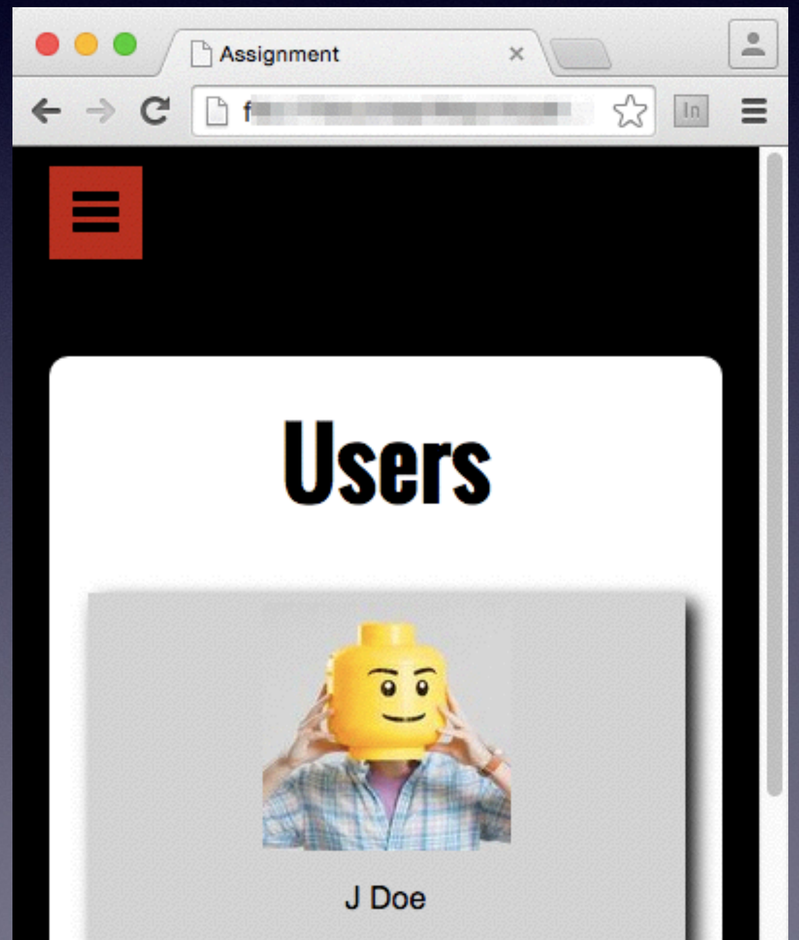
The menu should be fixed on the page.

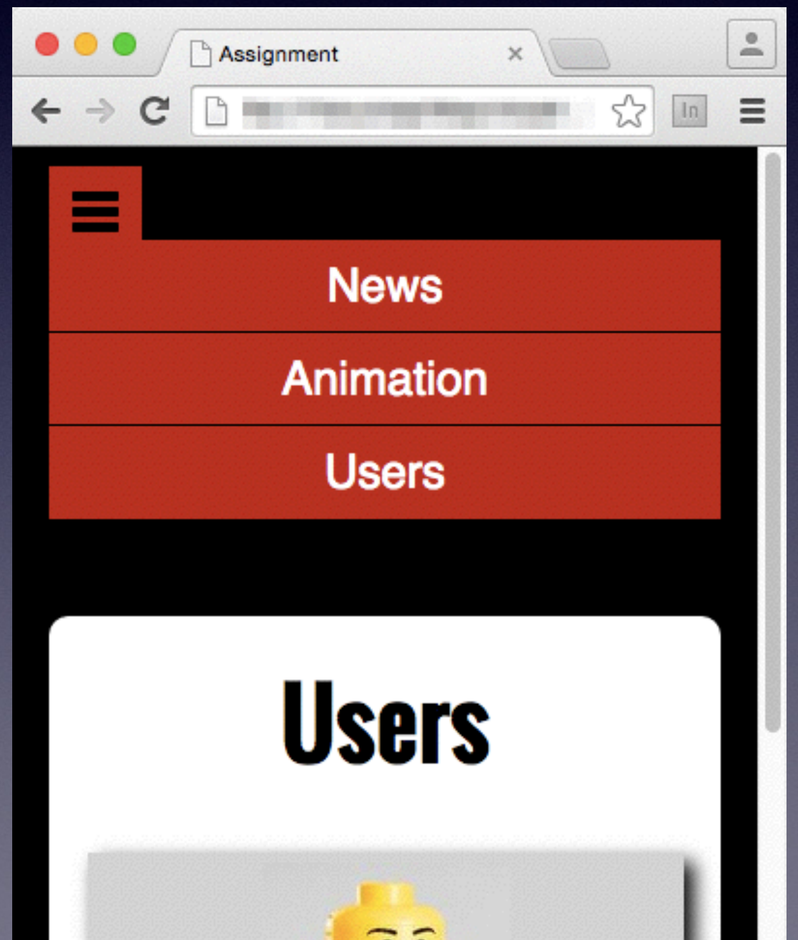
(**Note**: the minimum width design should need not be fixed in this way)





For the smallest screen sizes you should change the look of the menu as follows. It need not be animated.





You can use JavaScript to toggle the class of the menu if you click on it. All other functionality must be achieved through CSS & HTML.

I.e. you can use this code similar (or code similar to it) to change the class of the menu if you click on it.

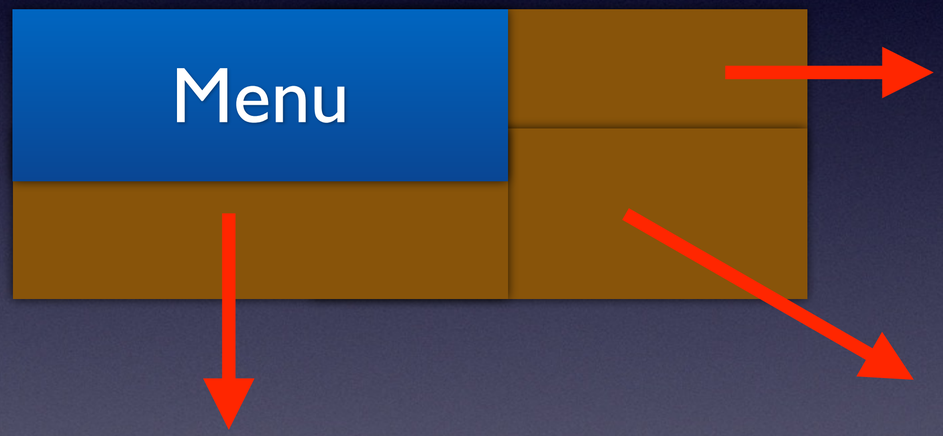
```
function hideMenu()  {

   document.getElementById('topmenu').className = "menuclosed";
   document.getElementById('topmenu').onclick = showMenu;
}

function showMenu() {

document.getElementById('topmenu').className = "menuopen";
document.getElementById('topmenu').onclick = hideMenu;
}

function init() {

document.getElementById('topmenu').onclick = showMenu;
}

window.onload = init;
```

Layout Tips

You can start by placing all the menu items behind the **Menu** label

This is the layout for the **.menuclosed** class

Then position them in their final position. This is the layout with the **.menuopen** class



CSS3 transitions can animate the change in position.

Requirements

- All work **must** be your own and no frameworks should be used.

- You should comment your code where necessary (e.g. where you want to ensure it's clear what you did). You can also include comments in the separate text file you will hand up to highlight work you did.

- Each page should include your name in the comments.

- You should use CSS3 solutions where applicable.

- Images and text (which can include Lorem Ipsum text) are to be sourced by you where not provided.

- You can use graphics from outside sources but be sure you have the rights to use it (i.e. this counts as educational, personal or non-commercial use).

- Include a text file containing links to any graphics you sourced on the internet.(i.e. so I can confirm the licence)

Provided Materials:

Assignment Brief (This document)

Technical Notes Document

HTML extracts for Users & Calendar page
(2 x .txt files)

3 Sprite Graphics

1 x Panorama Image

Sample Screencasts (4 x .m4v movies)

For the purposes of the assignment it will primarily be tested on Firefox and Chrome.

Note: If you are unsure about any of the requirements of the assignment it is your responsibility to seek clarification (in class or by email).