Web Development Introduction

Navbar vertical – styling nav list of links

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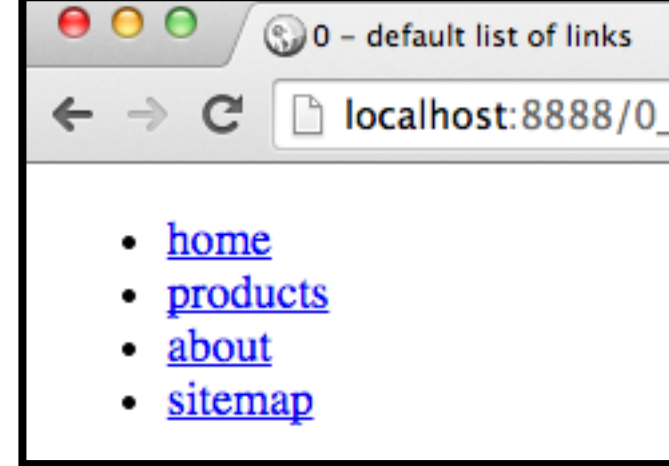
list of links should be marked-up as a LIST of links then place inside 'nav'

- While we **_could_** create nav bars with links as blocks
- Meaningful, semantic, markup requires us to use an **unordered list of links** when creating navbars but I will demonstrate a couple of methods and you can use what you are comfortable with…
- So we need to learn to style lists of links for navigation:

```html
<nav>
  <ul>
    <li><a href="index.html">home</a></li>
    <li><a href="products.html">products</a></li>
    <li><a href="about.html">about</a></li>
    <li><a href="contact.html">sitemap</a></li>
  </ul>
</nav>
```

HMTL

Default styling list of links


```
<nav>
  <ul>
    <li><a href="index.html">home</a></li>
    <li><a href="products.html">products</a></li>
    <li><a href="about.html">about</a></li>
    <li><a href="contact.html">sitemap</a></li>
  </ul>
</nav>
```

HMTL

How make list of links look like nice vertical navigation bar?

1 – 2 – 3 ...

3 steps to styling vertical navbars (css)

1. Remove nav list spacing and bullet points
   - `nav ul`

2. Make nav 'a' elements display as blocks
   - `nav a` ────────────────────────► `<a>`

3. Add desired styling rules for:
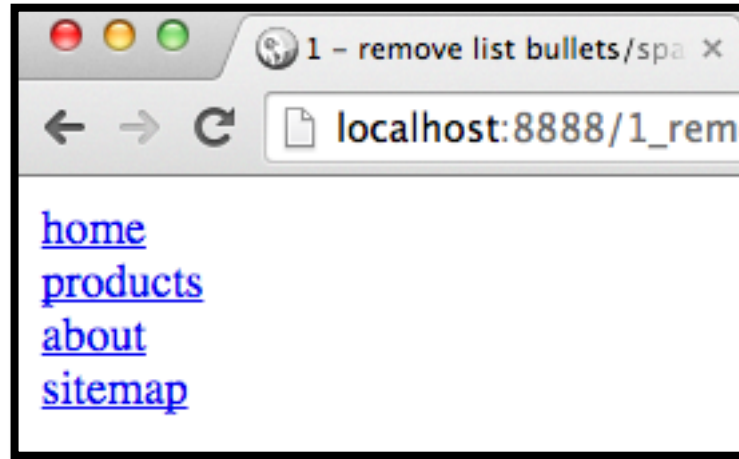   - `nav a`   (unvisited/visited state)
   - `nav a:hover`   (mouse hover over state)
   - `nav a.current_page`   (highlight current page link)

Step 1
remove bullets and spacing from nav list

Step 1
Remove bullets and spacing from nav list


```
nav ul {
    list-style-type: none;
    margin: 0;
    padding: 0;
}
```
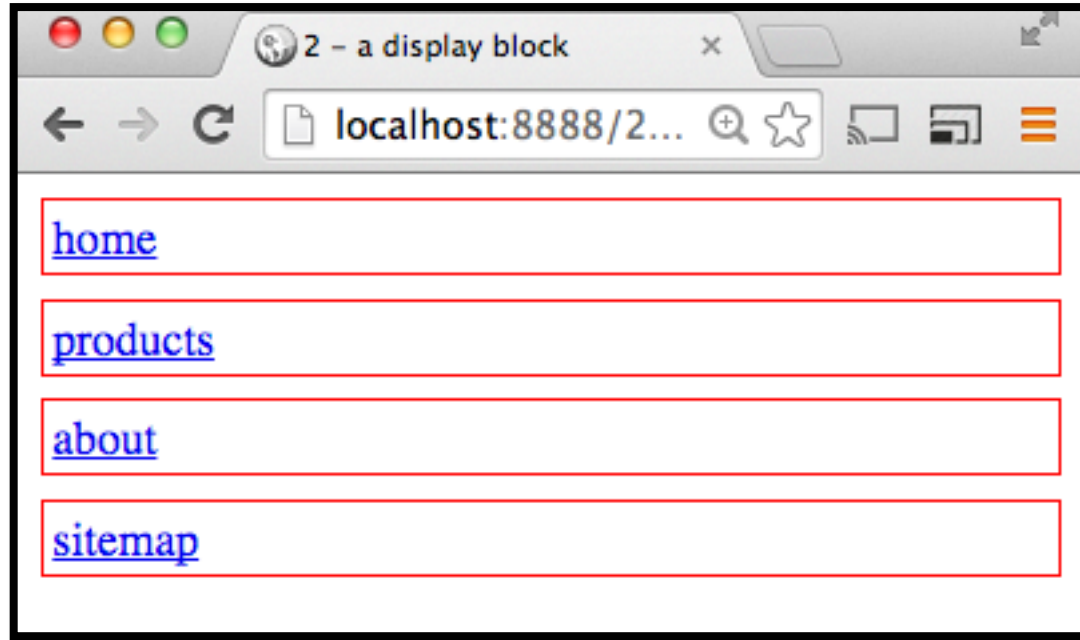
CSS

Step 2
Make nav 'a' elements display as blocks

Step 2
Make nav 'a' elements display as blocks

home

products

about

sitemap

```css
nav a {

    display: block;


    border: 0.1rem solid red;

    padding: 0.2em;

    margin-bottom: 0.5em;

}
```
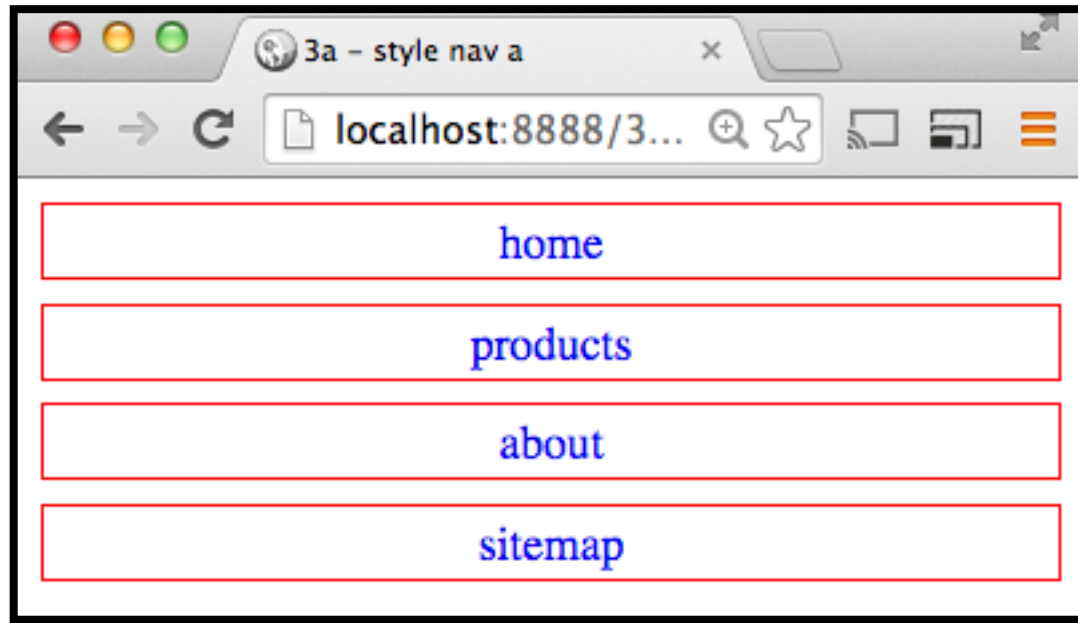
CSS

Step 3a
Add desired styling rules for: a

Step 3a
Add desired styling rules for: a


```css
nav a {
    display: block;
    text-decoration: none;
    text-align: center;
}
```
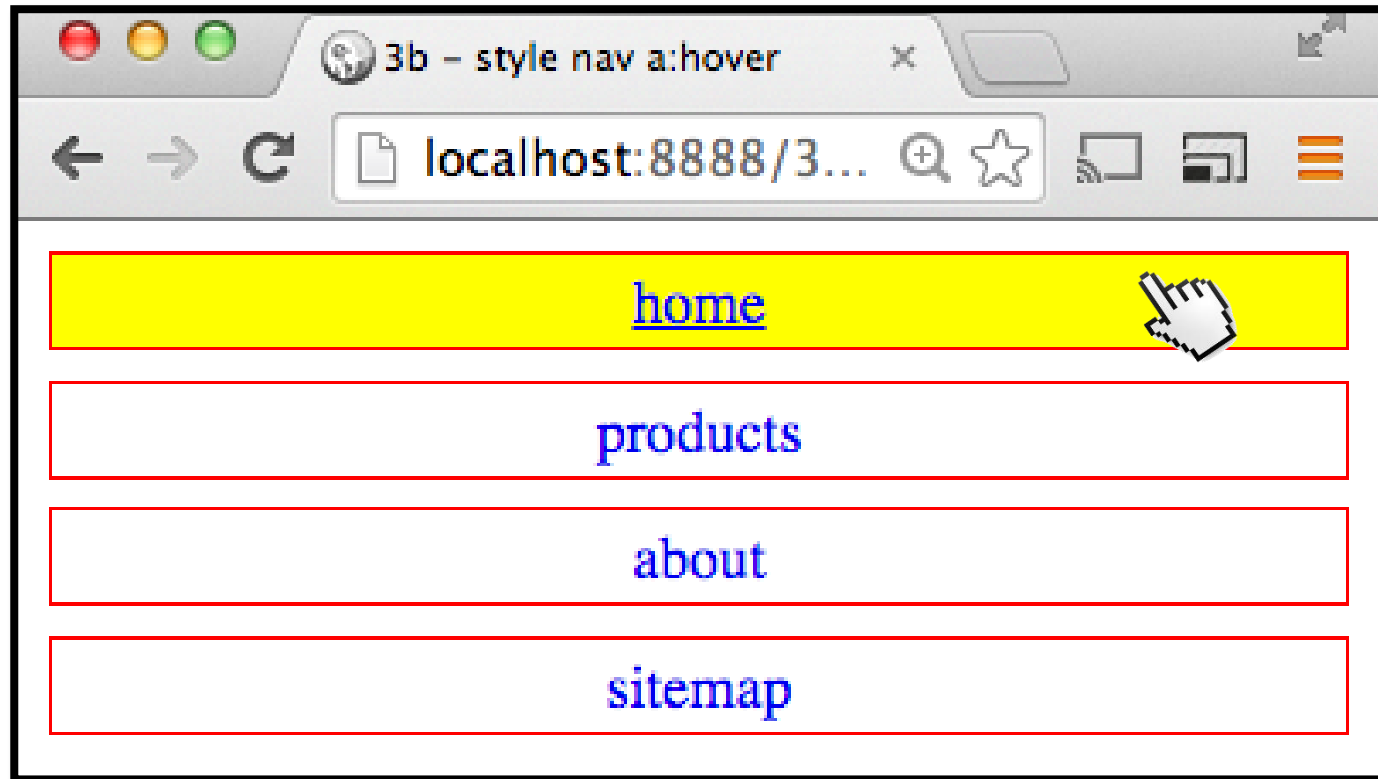
CSS

Step 3b
Add desired styling rules for `a:hover`

Step 3b
Add desired styling rules for: `a:hover`


```css
nav a:hover {
    text-decoration: underline;
    background-color: yellow;
}
```

CSS

Step 3c
Add desired styling rules for: `a.current_page`

Step 3c: style
`a.current_page`

Assume current page is
sitemap

```
<nav>
  <ul>
    <li><a href="index.html">home</a></li>
    <li><a href="products.html">products</a></li>
    <li><a href="about.html">about</a></li>
    <li><a  href="contact.html"
        class="current_page">sitemap</a></li>
  </ul>
</nav>
```
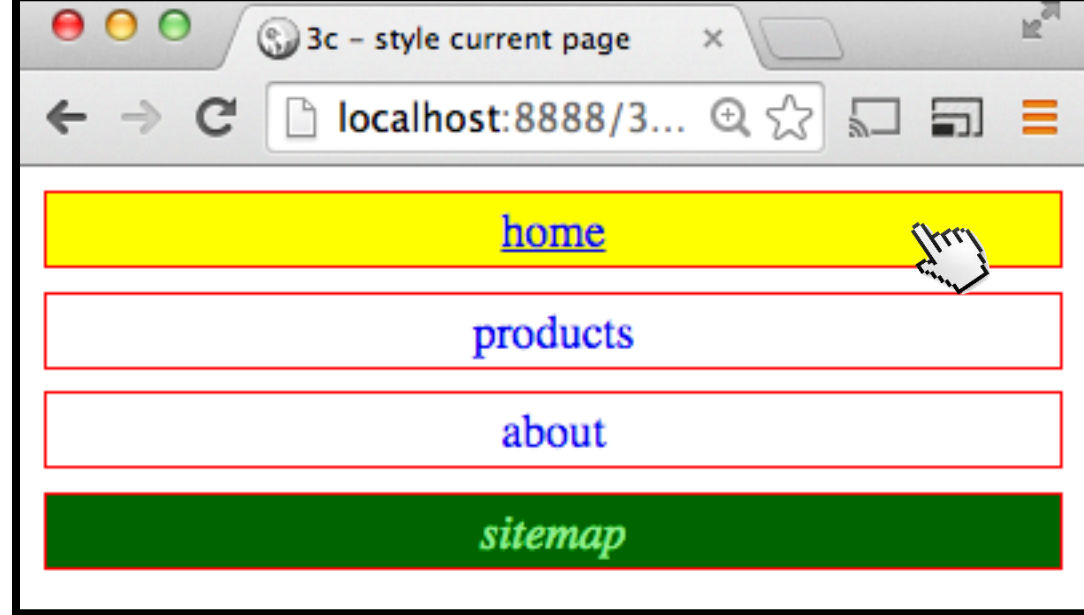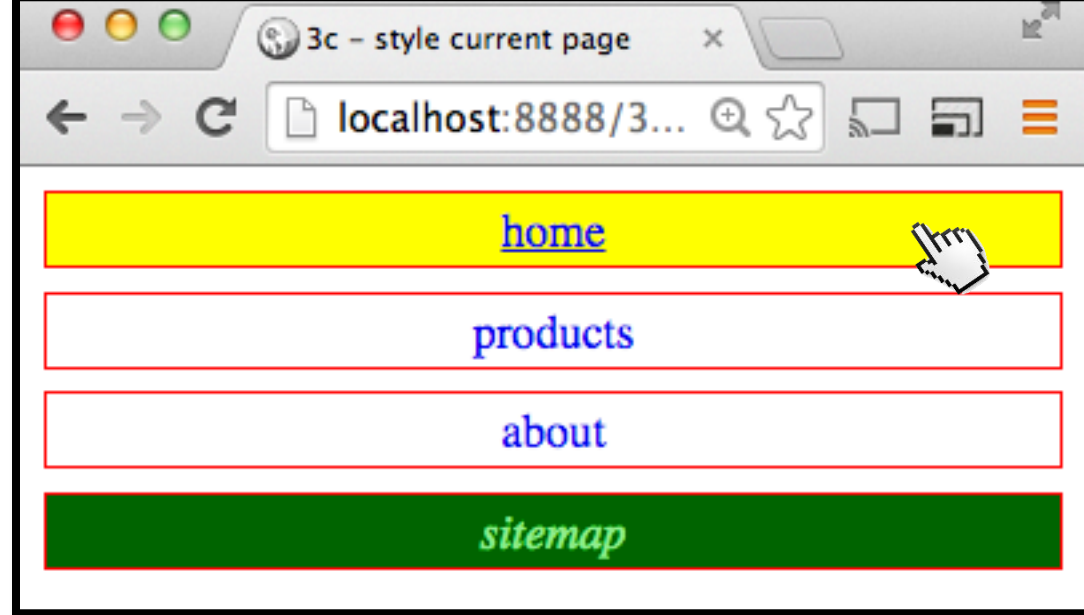
HTML

Step 3c: style
`a.current_page`

Assume current page is
sitemap


```css
nav a.current_page {
    color: lightgreen;
    background-color: darkgreen;
    font-style: italic;
}
```

CSS

```
nav ul {
   list-style-type: none;
   margin: 0;
   padding: 0;
}

nav a {
   display: block;...............display inline to make this appear
   horizontal across the page
   border: 0.1rem solid red;
   padding: 0.2rem;
   margin-bottom: 0.5rem;
   text-decoration: none;
   text-align: center;
}

nav a:hover {
   text-decoration: underline;
   background-color: yellow;
}

nav a.current_page {
   color: lightgreen;
   background-color: darkgreen;
   font-style: italic;
}
```

Home | About Us | Gallery | Products | Links | Contact Us

CSS

Sample Code For Navigation Lists – horizontal

```css
/*******A list of items***********/

#nav ul li a
{

  padding: 5px 40px;
  color: #ffffff;
  background-color: lightgray;
  font-family: Arial, Helvetica, sans-serif;
  font-size: 12px;
  font-weight: bold;
  text-align: center;
  text-decoration:none;
}

#nav ul li
{
display:inline;
}

#nav ul li a:link
{
color : #FFFFFF;
}
#nav  ul li a:visited
{
color : #cccccc;
}

#nav ul li a:hover
  {
color : #66cc33;
  }


  /*******************************************
```

```html
<!-- ************************HEADER ***************-->
<div id="header">
<h1>My Website</h1>
</div>

<!--  a nav created for the ******NAV BAR***** and given a separate ID -->

 <div align="center" id = "nav">

 <ul>
 <li><a href="index.html" >Home</a></li>
  <li><a href="about.html">About Us</a></li>
  <li><a href="gallery.html">Gallery</a></li>
  <li><a href="Products.html" >Products</a></li>
  <li><a href="links.html" >Links</a></li>
  <li><a href="contactus.html" >Contact Us </a></li>
  </ul>

</div>

<!-- ***************************** -->

<!-- ************************ASIDE*************** -->
```

3 steps to styling vertical navbars

1. Remove nav list spacing and bullet points
    - `nav ul`

2. Make nav 'a' elements display as blocks
    - `nav a`

3. Add desired styling rules for:
    - `nav a`   (unvisited/visited state)
    - `nav a:hover`   (mouse hover over state)
    - `nav a.current_page`   (highlight current page link)

Sophisticated horizontal nav bars

- In this week's class we are going to learn how to:
    - style unorderd lists into professional looking horizontal navigation bars "navbars"
- Different strategies
    - *float: left/right*
    - *display: inline-block*
    - *display: flex*

- We'll learn to use:
    display: flex;

- **REMEMBER**: you must test using Google Chrome !

The 4 rules for effective use of: Unordered lists for navbars

- The 4 steps for simple (vertical) navigation bars
    1. \<ul\> remove bullets and margins and padding
    2. \<a\> display as blocks
    3. \<a\> define :hover style
    4. \<a\> define .current_page style
    + (add some pretty CSS colors/padding/border etc.)

- Two new steps:
    - Make list block \<ul\> a flex box container
    - Make the list items \<li\> share space flexibly

RECAP –
Steps 1 – 4 for simple nav bars

Nav lists …

- Features of unordered lists:
  - Indentation of whole list
  - Bullet points

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="utf-8">
    <title>IT Blanchardstown</title>
</head>

<body>

<nav>
    <ul>
        <li><a href="index.html">home</a></li>
        <li><a href="about.html">about</a></li>
        <li><a href="products.html">products</a></li>
        <li><a href="contact.html">contact</a></li>
    </ul>
</nav>

</body>
</html>
```

- • home
- • about
- • products
- • contact

- Use CSS to <u>remove spacing and bullet points</u>:

- Note – descendent selector
  - So only `<ul>` inside `<nav>` affected …

```
nav ul {
        margin: 0;
        padding: 0;
        list-style-style: none;
}
```

home
about
products
contact

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="utf-8">
    <title>IT Blanchardstown</title>
</head>

<body>

<nav>
    <ul>
        <li><a href="index.html">home</a></li>
        <li><a href="about.html">about</a></li>
        <li><a href="products.html">products</a></li>
        <li><a href="contact.html">contact</a></li>
    </ul>
</nav>

</body>
</html>
```

- home
- about
- products
- contact

```css
nav ul {
        margin: 0;
        padding: 0;
        list-style-style: none;
}
```

home
about
products
contact

display <a> as block

```
nav ul {
        margin: 0;
        padding: 0;
        list-style-style: none;
}
```

```
nav ul li a {
        display: block;
        background-color: yellow;
        padding: 1em;
        border: 1px solid black;
}
```

home

about

products

contact

```
nav ul {
        margin: 0;
        padding: 0;
        list-style-style: none;
}
```

step 1

about

products

```
nav ul li a {
        display: block;
        background-color: yellow;
        padding: 1em;
        border: 1px solid black;
}
```

step 2

home

about

```
/* step 3 - :hover style for links */

nav ul li a:hover {
        background-color: black;
        color: yellow;
        text-decoration: none;
}
```

home

about

products

contact

style current page differently

```
nav ul {
        margin: 0;
        padding: 0;
        list-style-style: none;
}
```

home
about
products

```
nav ul li a {
        display: block;
        background-color: yellow;
        padding: 1em;
        border: 1px solid black;
}
```

home

about

```
/* step 3 - :hover style for links */

nav ul li a:hover {
        background-color: black;
        color: yellow;
        text-decoration: none;
}
```

home

about

```
nav ul li a.current_page {
        background-color: pink;
}
```

home

about

Lets try it now