

Navigating WebGUI

Practical applications of the navigation asset

[WUC 2008]

united knowledge



Who am I?

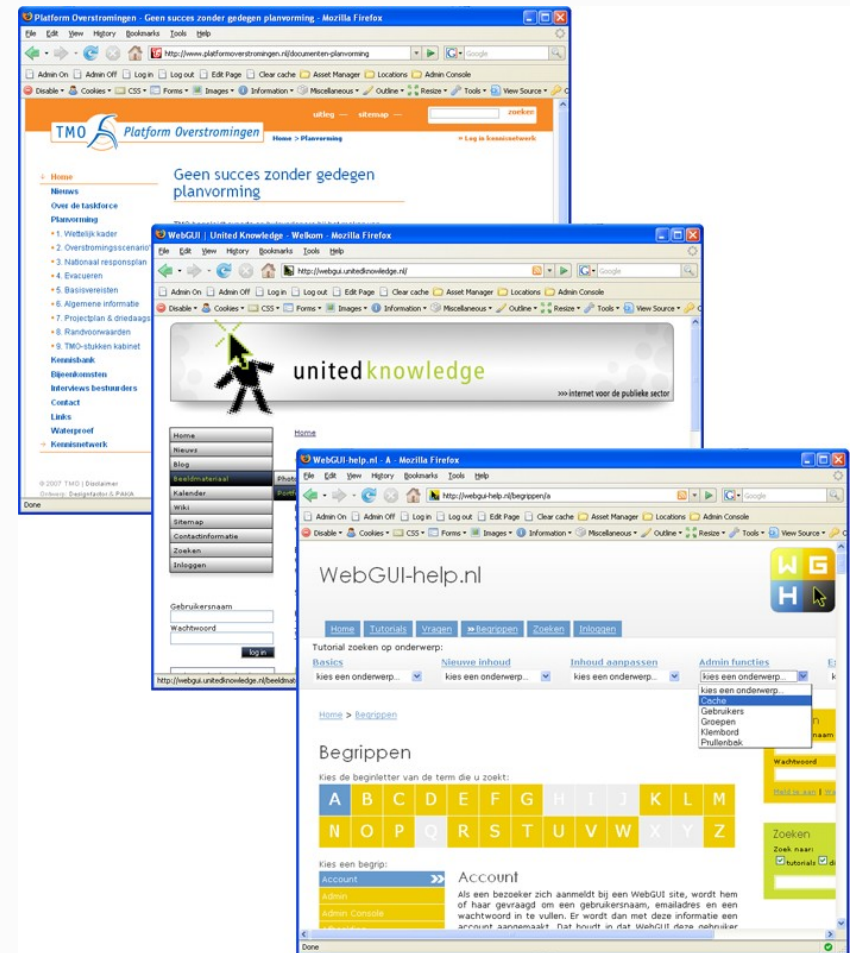
- Rogier Voogt
 - From the Netherlands
 - Interaction designer
 - Design and implementation of WebGUI sites
 - Webgui-help.nl
- Now on to the interesting stuff...

Contents

- Overview of the Navigation asset
- Explaining Navigation with 3 examples
- Making a menu with ULs and CSS
- **Our goal:** not a complete understanding, but being able to make your own Navigation

What the WUC is a Navigation?

- It's what gets you around on a WebGUI site!
- horizontal menu
- vertical menu
- crumbtrail
- sitemap
- etc...



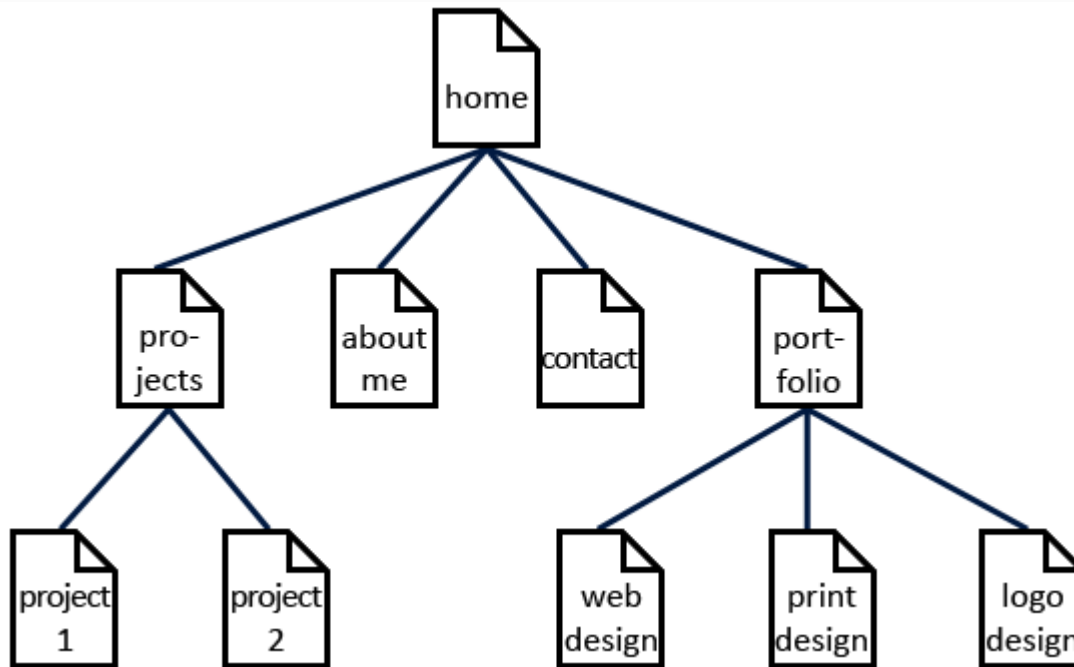
united knowledge

How to make a navigation

1. A well structured site
2. Add a navigation
3. The navigation settings
4. Choose a template

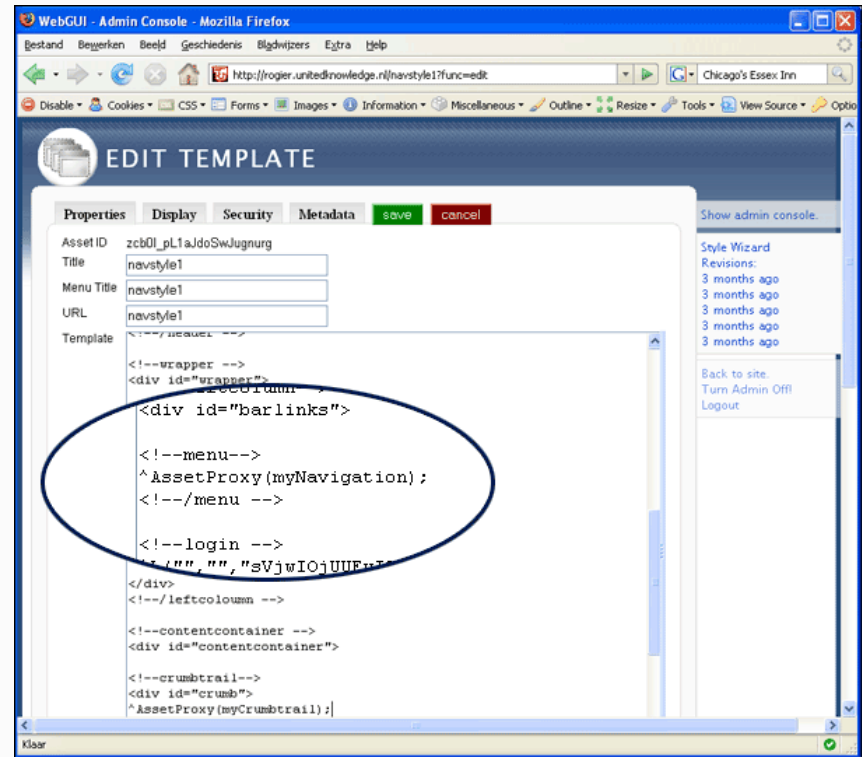
Step 1: a well structured site

- WebGUI sites can be represented as a tree
- The structure of this tree should be logical



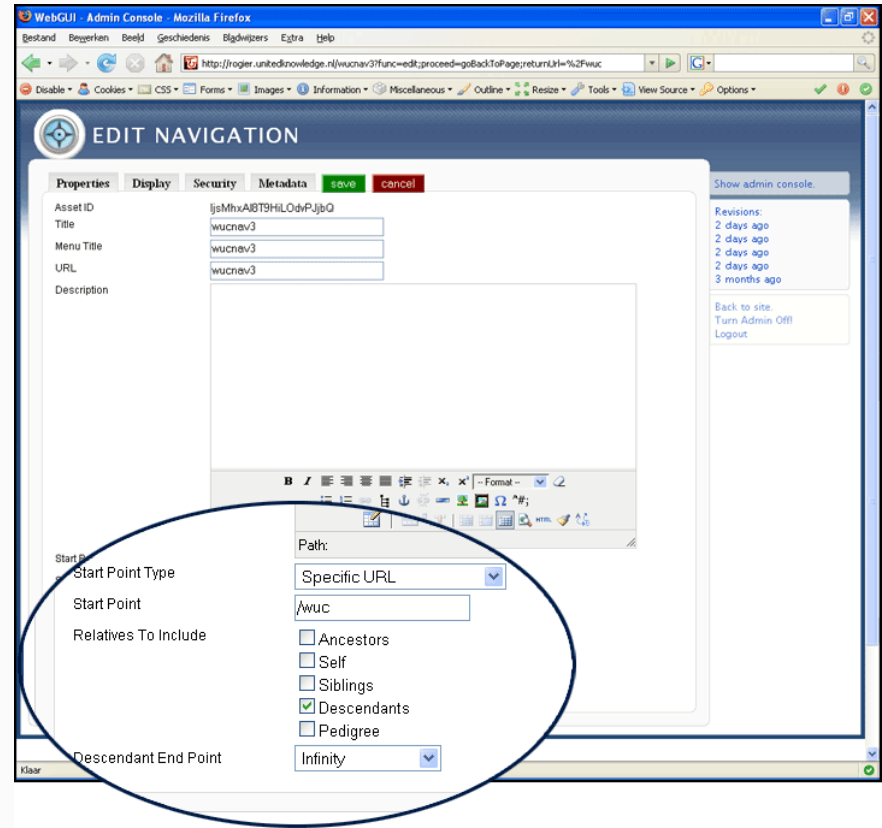
Step 2: adding a navigation

- Use the asset proxy macro to insert a navigation in the style template
- `^AssetProxy(myNavUrl);`
- Use for main menus and other “always visible” navigations



Step 3: the navigation properties

- Which pages should be displayed?
- Select:
 - Start point type
 - Start point
 - Relatives to include
 - Ancestor end point
 - Descendant end point



Start point type

- 3 types:
 - Specific URL
 - Relative to current URL
 - Relative to root

Start Point Type	Relative To Root
Start Point	Specific URL
Relatives To Include	Relative To Current URL
	Relative To Root
	<input type="checkbox"/> Self
	<input type="checkbox"/> Siblings
	<input checked="" type="checkbox"/> Descendants
	<input type="checkbox"/> Pedigree
Descendant End Point	./a/ (+1)




Specific URL

- Start point: /someUrl

Start Point Type	<input type="text" value="Specific URL"/>
Start Point	<input type="text" value="/projects"/>
Relatives To Include	<input type="checkbox"/> Ancestors <input type="checkbox"/> Self <input type="checkbox"/> Siblings <input checked="" type="checkbox"/> Descendants <input type="checkbox"/> Pedigree
Descendant End Point	<input type="text" value="/a/ (+1)"/>

Relative to current URL

- Start point: the current page or a page above the current page

Start Point Type	Relative To Current URL 
Start Point	<input type="text" value="/ (0)"/> 
Relatives To Include	<ul style="list-style-type: none"><input type="checkbox"/> ../ (-3)<input type="checkbox"/> ../ (-2)<input checked="" type="checkbox"/> ../ (-1)<input type="checkbox"/> / (0)
	<input checked="" type="checkbox"/> Descendants <input type="checkbox"/> Pedigree
Descendant End Point	<input type="text" value="/a/ (+1)"/> 



Relative to root

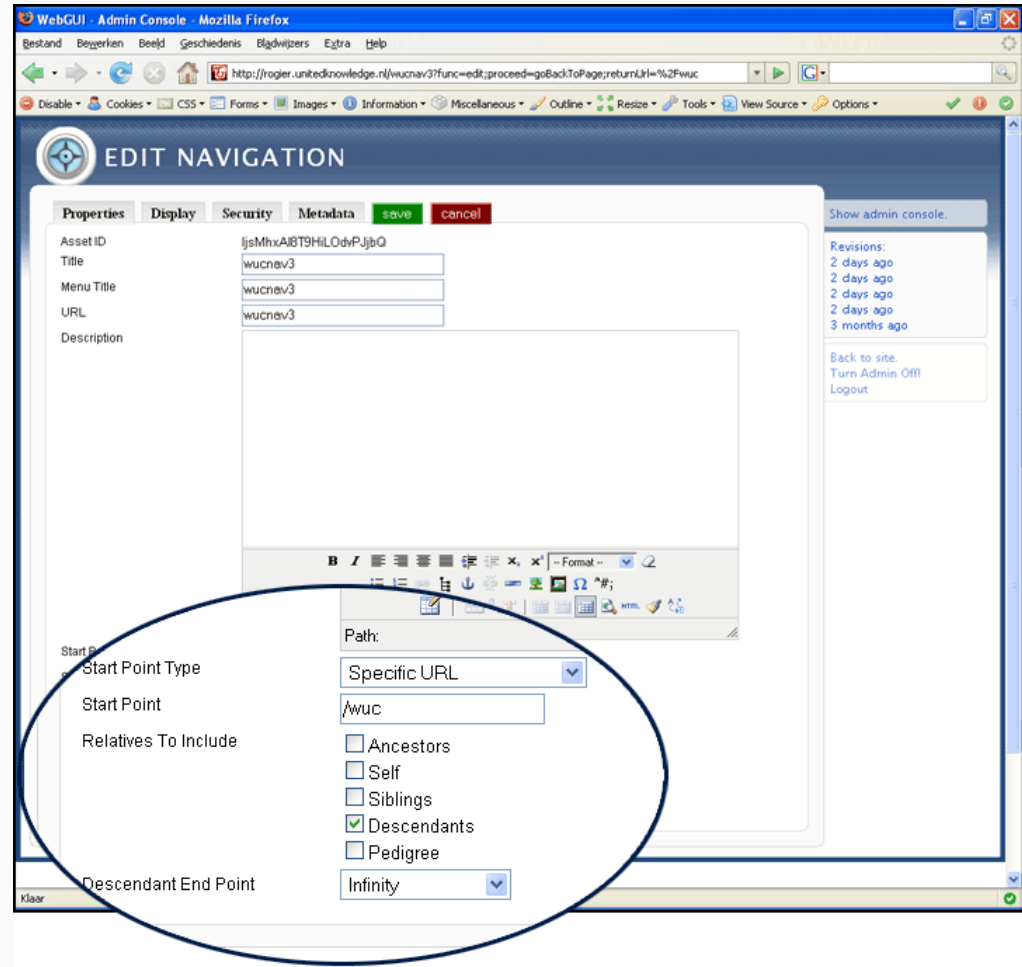
- Start point: the root or a level below the root

Start Point Type	Relative To Root
Start Point	/ (0)
Relatives To Include	<ul style="list-style-type: none">/ (0)/a/ (+1)/a/b/ (+2)/a/b/c/ (+3)/a/b/c/d/ (+4)/a/b/c/d/e/ (+5)/a/b/c/d/e/f/ (+6)/a/b/c/d/e/f/g/ (+7)/a/b/c/d/e/f/g/h/ (+8)/a/b/c/d/e/f/g/h/i/ (+9)
Descendant End Point	



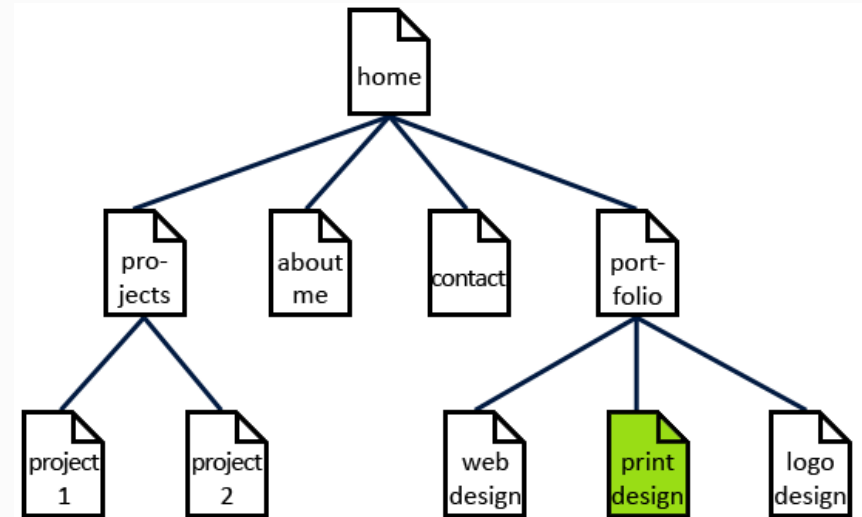
Relatives to include

- Ancestors
- Self
- Siblings
- Descendants
- Pedigree



Ancestors

- Ancestors: all pages above
- Follow the lines from the start point: always go up



Start Point Type:

Start Point:

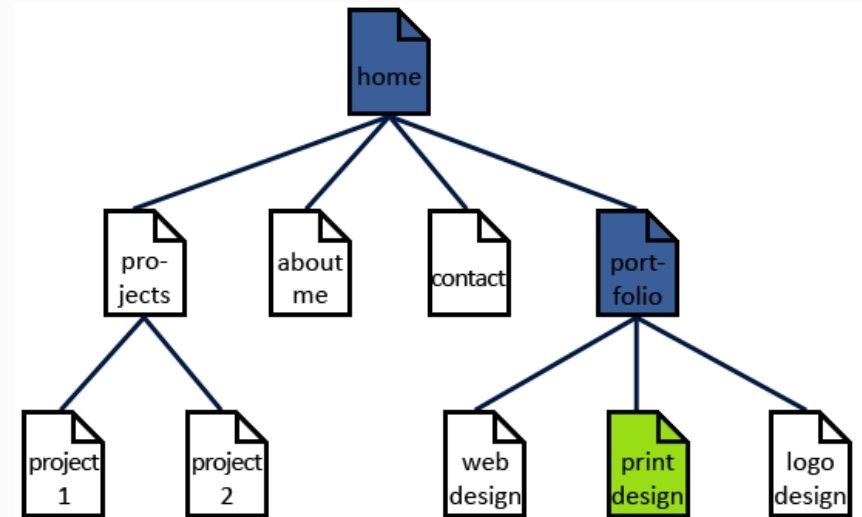
Ancestor End Point:

Relatives To Include:

- Ancestors
- Self
- Siblings
- Descendants
- Pedigree

Ancestors

- Ancestors: all pages above
- Follow the lines from the start point: always go up



Start Point Type: Specific URL

Start Point: /wuc

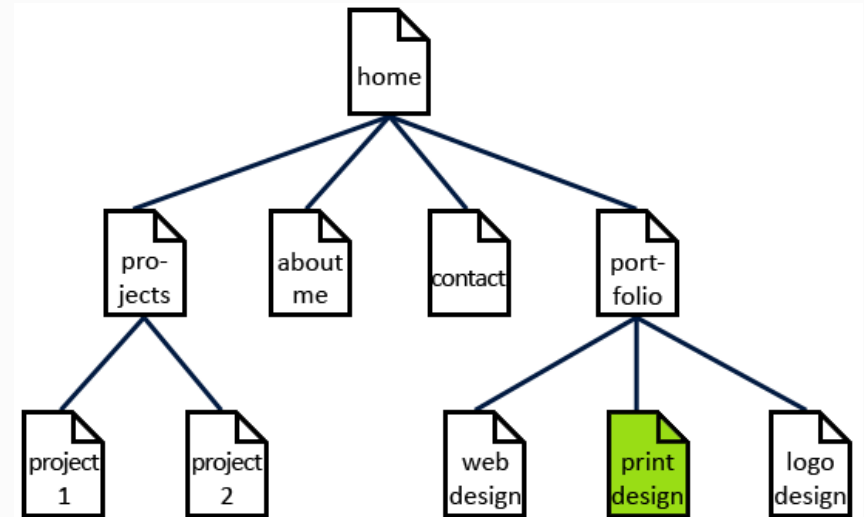
Ancestor End Point: Infinity

Relatives To Include:

- Ancestors
- Self
- Siblings
- Descendants
- Pedigree

Ancestors

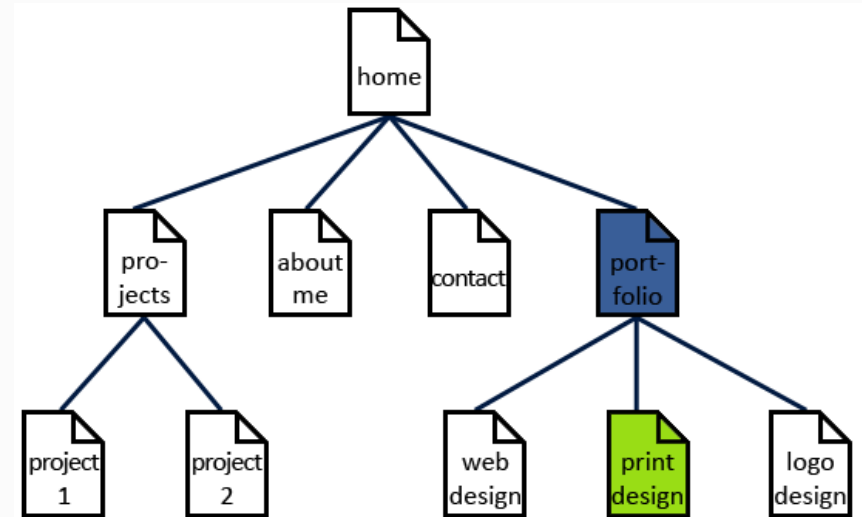
- Ancestor end point:
how many levels up?



Start Point Type	Specific URL <input type="button" value="v"/>
Start Point	<input type="text" value="/webdesign"/>
Ancestor End Point	<input type="button" value="v"/> ./(-1)
Relatives To Include	<ul style="list-style-type: none">./(-1)../(-2)../../(-3)../../../(-4)../../../../(-5)Infinity

Ancestor end point

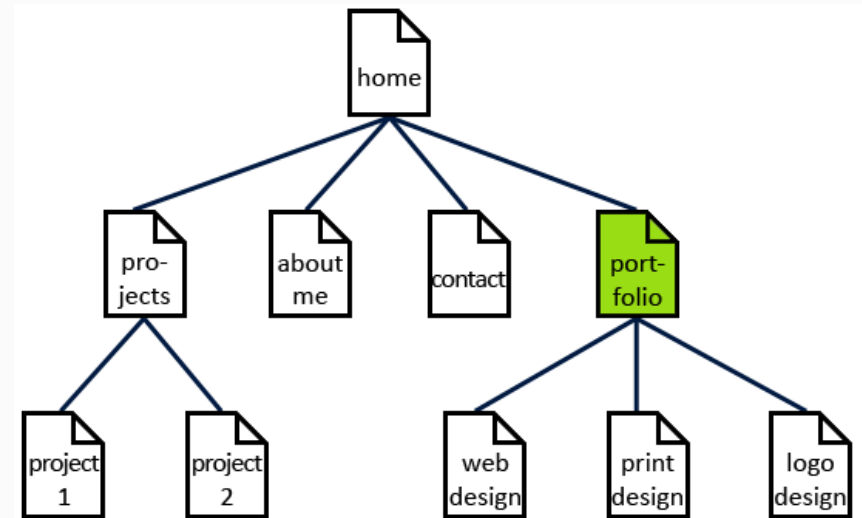
- Ancestor end point:
how many levels up?



Start Point Type	Specific URL <input type="button" value="v"/>
Start Point	<input type="text" value="/webdesign"/>
Ancestor End Point	<input type="button" value="v"/> ./(-1)
Relatives To Include	<ul style="list-style-type: none">./(-1)../(-2)../../(-3)../../../(-4)../../../../(-5)Infinity

Self

- Self is the start point (not the current page!)



Start Point Type: ▼

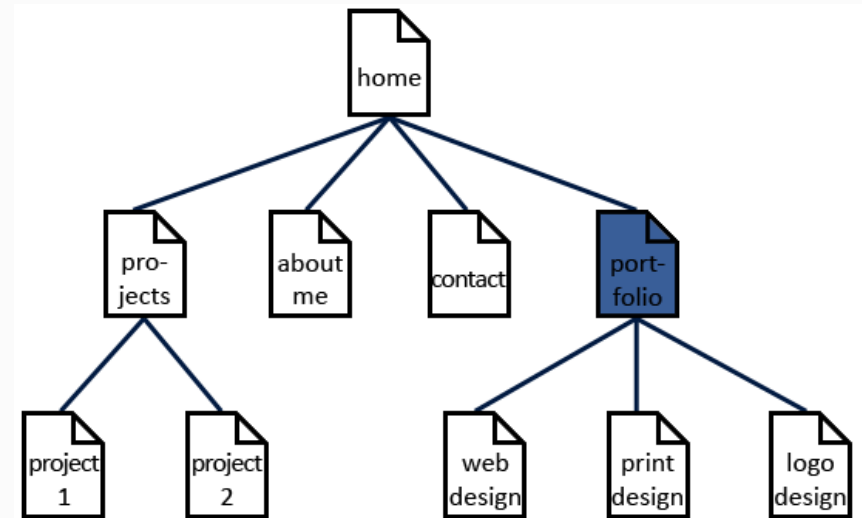
Start Point:

Relatives To Include:

- Ancestors
- Self
- Siblings
- Descendants
- Pedigree

Self

- Self is the start point (not the current page!)



Start Point Type: ▼

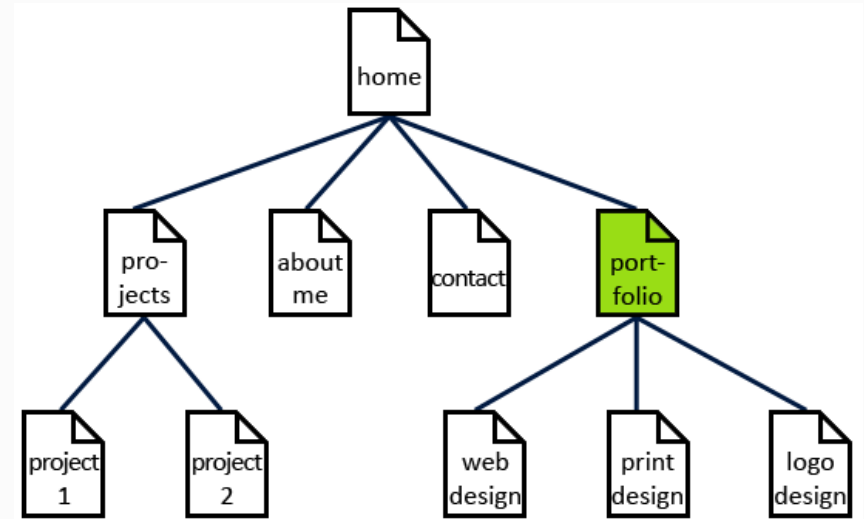
Start Point:

Relatives To Include:

- Ancestors
- Self
- Siblings
- Descendants
- Pedigree

Siblings

- Pages with the same parent
- Siblings of the start point (not the current page!)



Start Point Type: ▼

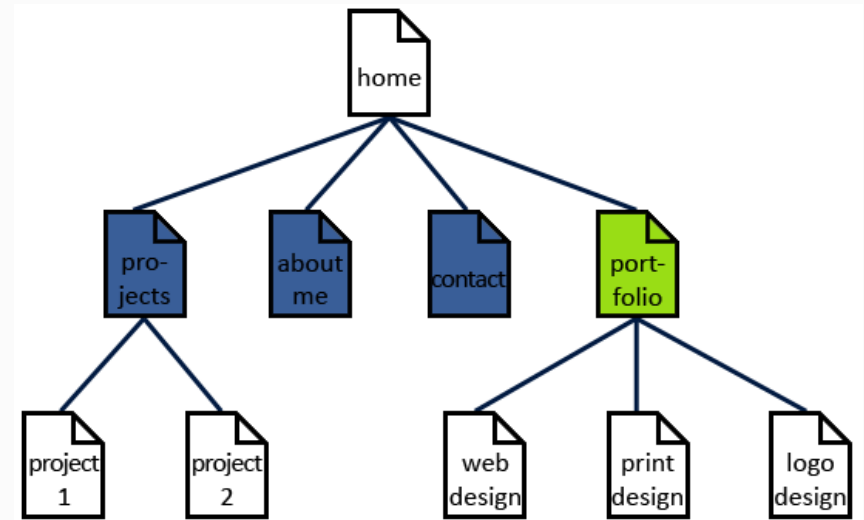
Start Point:

Relatives To Include:

- Ancestors
- Self
- Siblings
- Descendants
- Pedigree

Siblings

- Pages with the same parent
- Siblings of the start point (not the current page!)



Start Point Type:

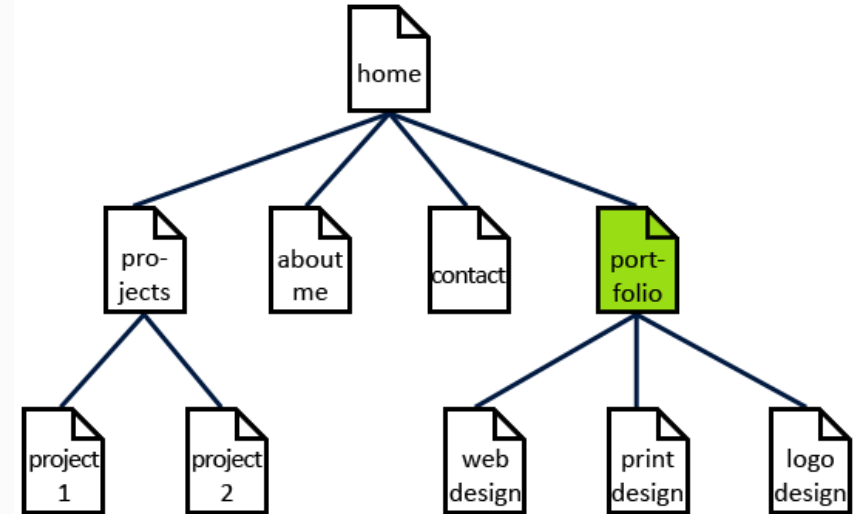
Start Point:

Relatives To Include:

- Ancestors
- Self
- Siblings
- Descendants
- Pedigree

Descendants

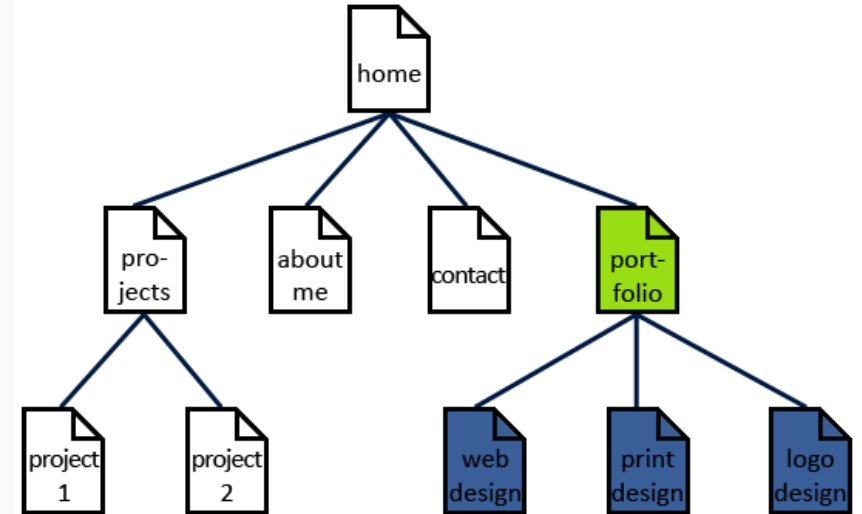
- Descendants: all pages below
- Follow the lines from the start point: always move down, never up



Start Point Type	Specific URL <input type="button" value="v"/>
Start Point	<input type="text" value="/portfolio"/>
Relatives To Include	<input type="checkbox"/> Ancestors <input type="checkbox"/> Self <input type="checkbox"/> Siblings <input checked="" type="checkbox"/> Descendants <input type="checkbox"/> Pedigree
Descendant End Point	<input type="text" value="/a/ (+1)"/> <input type="button" value="v"/>

Descendants

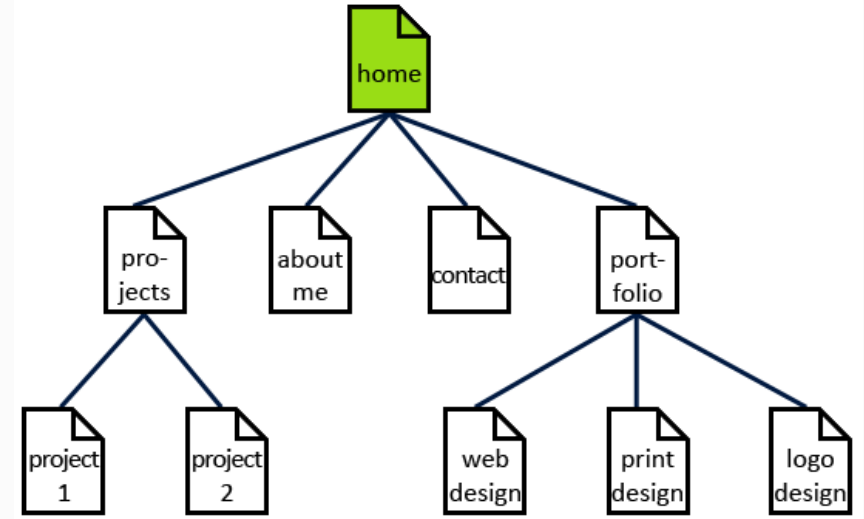
- Descendants: all pages below
- Follow the lines from the start point: always move down, never up



Start Point Type	Specific URL
Start Point	/portfolio
Relatives To Include	<input type="checkbox"/> Ancestors <input type="checkbox"/> Self <input type="checkbox"/> Siblings <input checked="" type="checkbox"/> Descendants <input type="checkbox"/> Pedigree
Descendant End Point	./a/ (+1)

Descendant end point

- Descendant end point:
how many levels down?



Start Point Type: Specific URL

Start Point: /home

Relatives To Include:

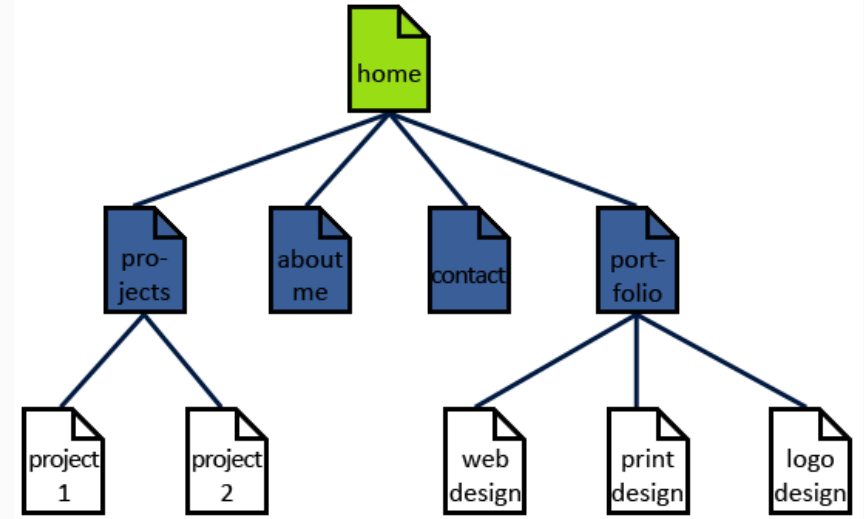
- Ancestors
- Self
- Siblings
- Descendants
- Pedigree

Descendant End Point: /a/ (+1)

- /a/ (+1)
- /a/b/ (+2)
- /a/b/c/ (+3)
- /a/b/c/d/ (+4)
- /a/b/c/d/e/ (+5)
- Infinity

Descendant end point

- Descendant end point:
how many levels down?



Start Point Type: Specific URL

Start Point: /home

Relatives To Include:

- Ancestors
- Self
- Siblings
- Descendants
- Pedigree

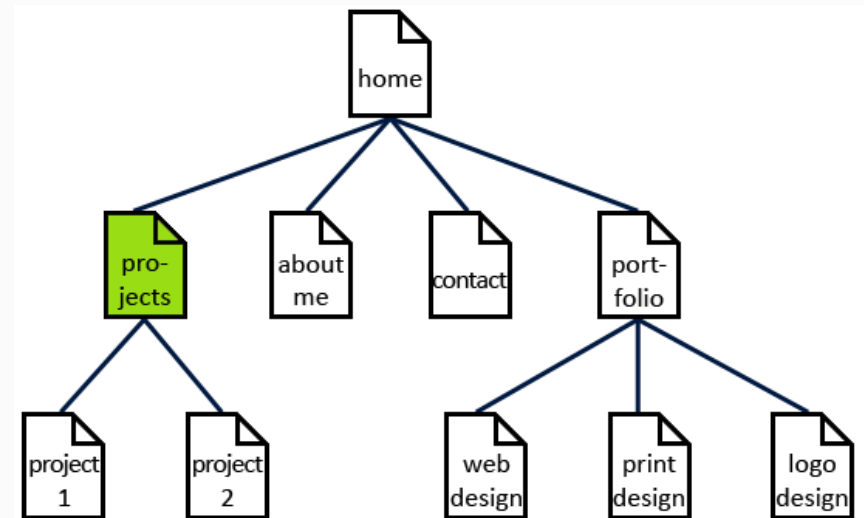
Descendant End Point: /a/ (+1)

- /a/ (+1)
- /a/b/ (+2)
- /a/b/c/ (+3)
- /a/b/c/d/ (+4)
- /a/b/c/d/e/ (+5)
- Infinity

Pedigree

- The descendants...
- ...and siblings...
- ...and self...
- ...of the **current** page...
- ...and its ancestors...
- ...and **their** siblings!

- So if current page is “projects” ...



Start Point Type

Start Point

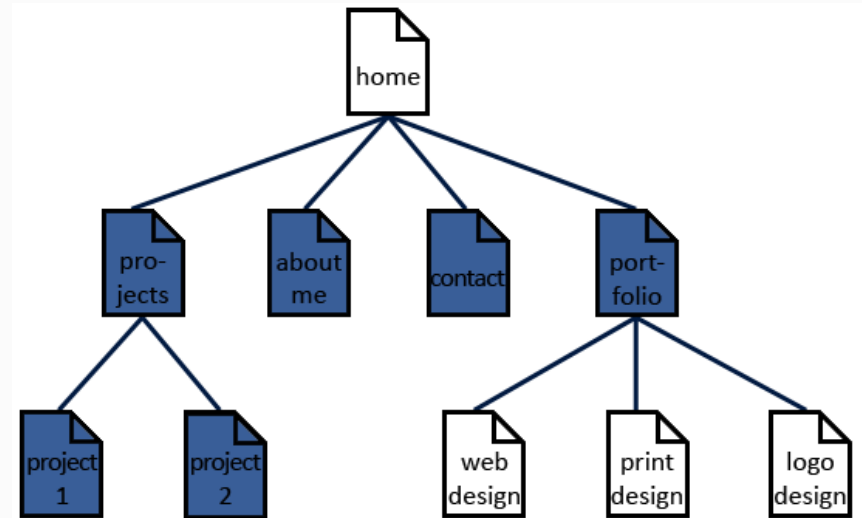
Relatives To Include

- Ancestors
- Self
- Siblings
- Descendants
- Pedigree

Pedigree

- The descendants...
- ...and siblings...
- ...and self...
- ...of the **current** page...
- ...and its ancestors...
- ...and **their** siblings!

- So if current page is “projects”, pedigree is:



Start Point Type

Start Point

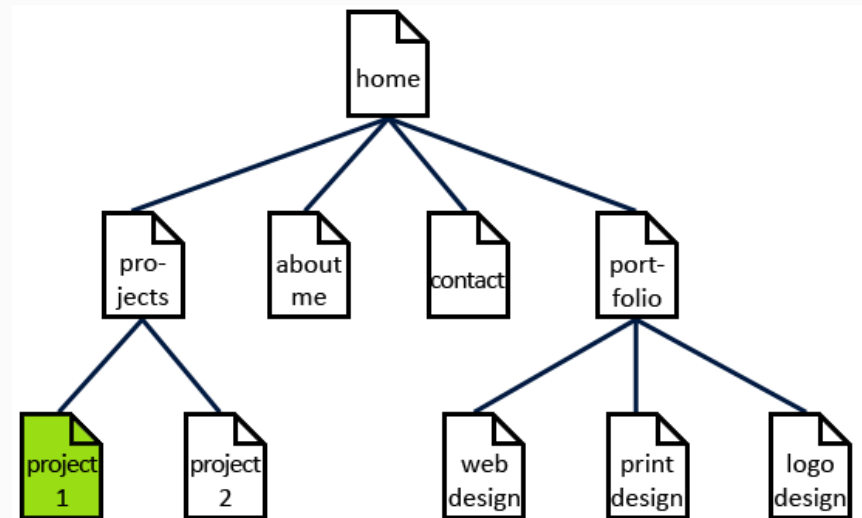
Relatives To Include

- Ancestors
- Self
- Siblings
- Descendants
- Pedigree

Pedigree

- The descendants...
- ...and siblings...
- ...and self...
- ...of the **current** page...
- ...and its ancestors...
- ...and **their** siblings!

- And if current page is “project 1”, pedigree is:



Start Point Type

Specific URL

Start Point

/home

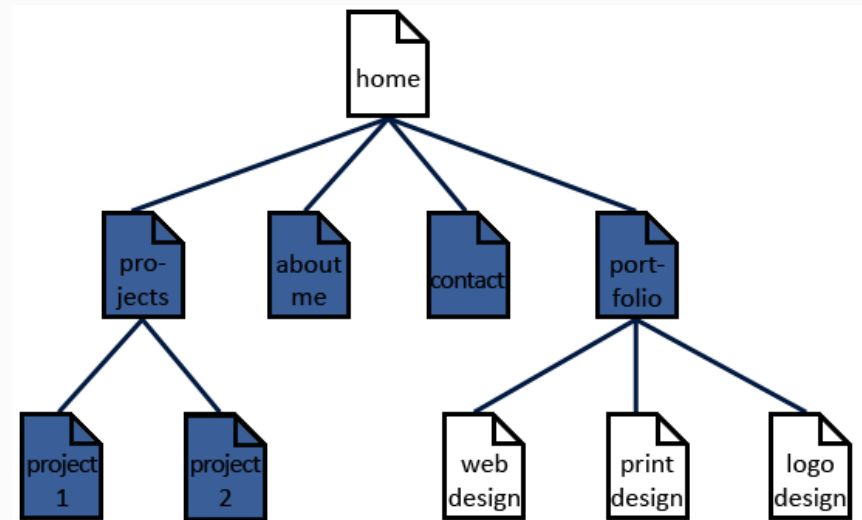
Relatives To Include

- Ancestors
- Self
- Siblings
- Descendants
- Pedigree

Pedigree

- The descendants...
- ...and siblings...
- ...and self...
- ...of the **current** page...
- ...and its ancestors...
- ...and **their** siblings!

- And if current page is “project 1”, pedigree is:



Start Point Type

Start Point

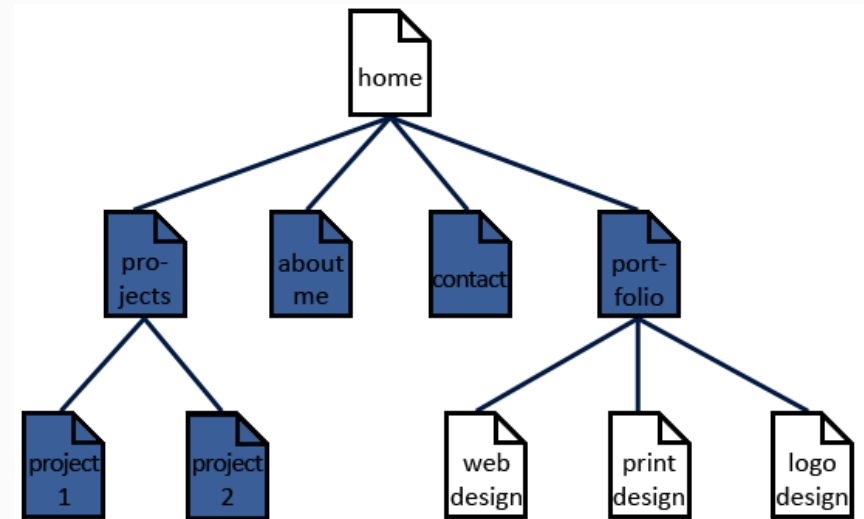
Relatives To Include

- Ancestors
- Self
- Siblings
- Descendants
- Pedigree

Pedigree

- The descendants...
- ...and siblings...
- ...and self...
- ...of the **current** page...
- ...and its ancestors...
- ...and **their** siblings!

- Note: ancestors up to (not including) start point




Start Point Type:

Start Point:

Relatives To Include:

- Ancestors
- Self
- Siblings
- Descendants
- Pedigree

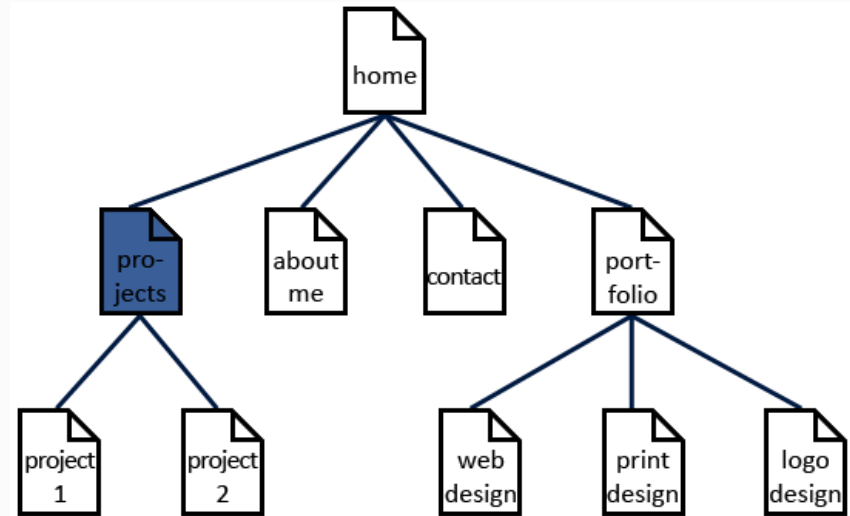
Combining relatives

Start Point Type 

Start Point

Relatives To Include

- Ancestors
- Self
- Siblings
- Descendants
- Pedigree



Combining relatives

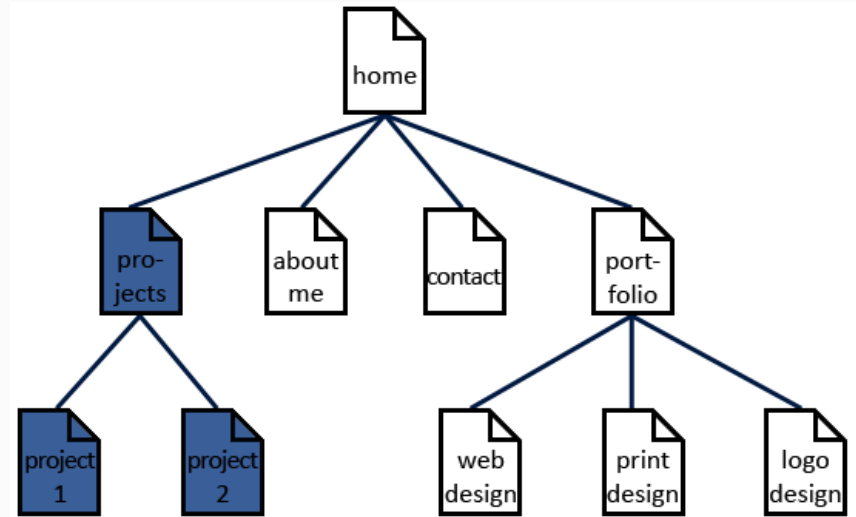
Start Point Type

Start Point

Relatives To Include

- Ancestors
- Self
- Siblings
- Descendants
- Pedigree

Descendant End Point



Combining relatives

Start Point Type: Specific URL

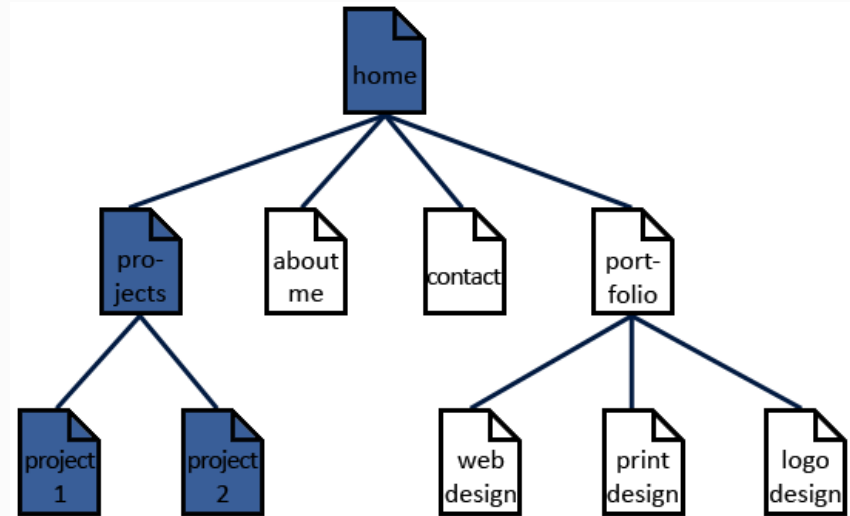
Start Point: /projects

Ancestor End Point: Infinity

Relatives To Include:

- Ancestors
- Self
- Siblings
- Descendants
- Pedigree

Descendant End Point: Infinity



So... where were we?

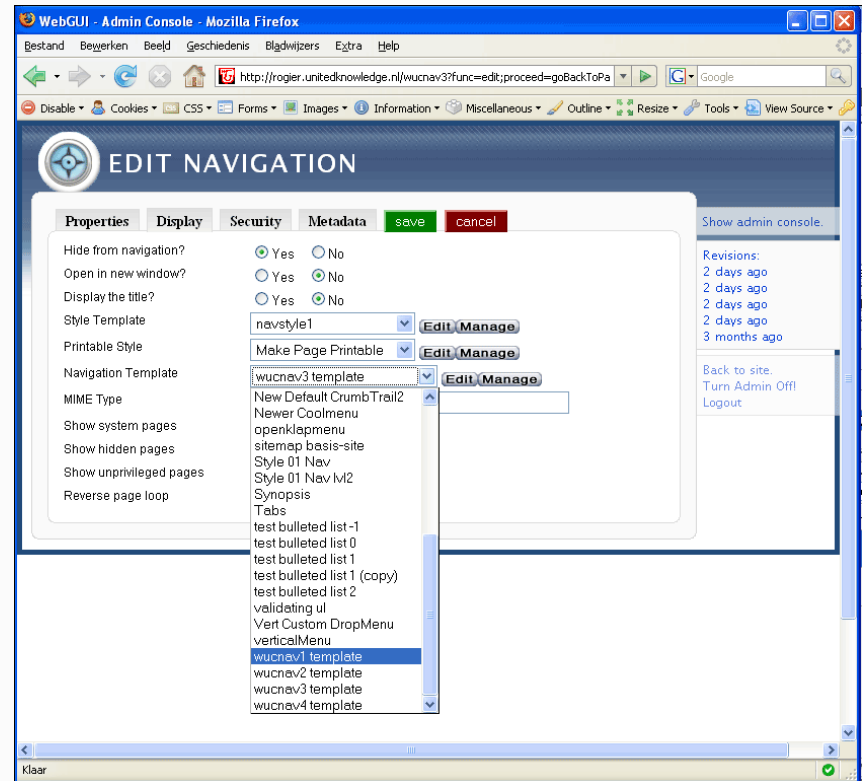
- A well structured site
- Add a navigation
- The navigation settings
- Choose a template

Step 4: choose a template

- Choose one of the default templates
- ...or make one yourself.

How?

- Copy an existing template
- ...one that is close to what you want
- Edit it to your needs



Step 4: choose a template

- How does the navigation template work?
 - Well let's take a look at the easiest navigation template ever

```
<tmpl_loop page_loop>
  <a href="<tmpl_var page.url>">
    <tmpl_var page.menuTitle>
  </a>
  <br />
</tmpl_loop page_loop>
```

Step 4: choose a template

Template

```
<tmpl_loop page_loop>
  <a href="<tmpl_var page.url">">
    <tmpl_var page.menuTitle>
  </a>
  <br />
</tmpl_loop page_loop>
```

HTML

```
<a href="/portfolio">
  Portfolio
</a>
<br />

<a href="/about-me">
  About me
</a>
<br />

<a href="/contact">
  Contact information
</a>
<br />
```

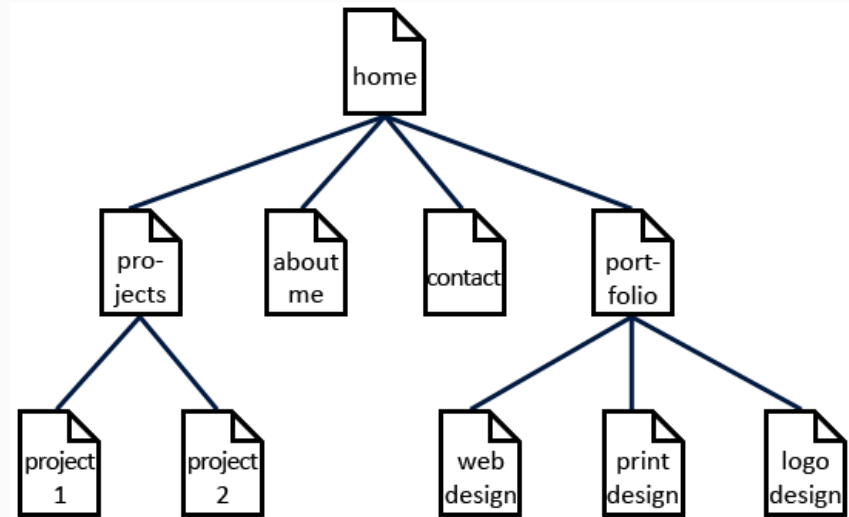
3 examples

- Crumbtrail
- Dropdown box
- Bulleted list / main menu

Example 1: crumbtrail

[home](#) > [portfolio](#) > [print design](#)

- A well structured site
- Add a navigation
- The navigation settings
- Choose a template



Example 1: crumbtrail

- A well structured site
- Add a navigation
- The navigation settings
- Choose a template

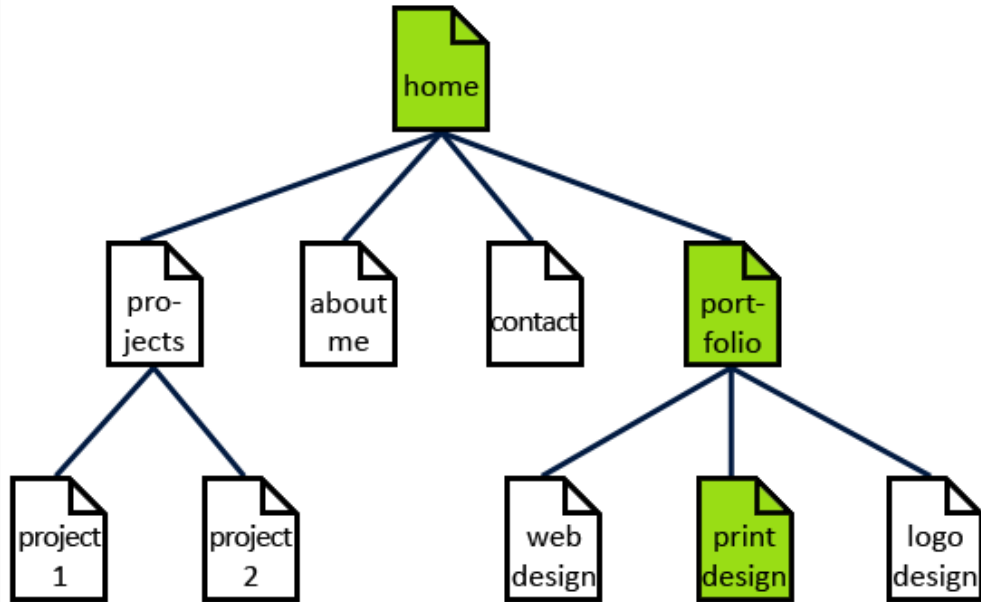
```
^AssetProxy(myCrumbtrail);
```

Example 1: crumbtrail

- A well structured site
- Add a navigation
- The navigation settings
- Choose a template

Start Point Type	Relative To Current URL ▾
Start Point	./ (0) ▾
Ancestor End Point	Infinity ▾
Relatives To Include	<input checked="" type="checkbox"/> Ancestors <input checked="" type="checkbox"/> Self <input type="checkbox"/> Siblings <input type="checkbox"/> Descendants <input type="checkbox"/> Pedigree

Example 1: crumbtrail



- If current page is “print design” ...
- ...the ancestors are “home” and “portfolio”
- And self is ofcourse the “print design” page

Example 1: crumbtrail

- A well structured site
- Add a navigation
- The navigation settings
- Choose a template

```
<p id="myCrumbtrail">  
  
  <tmpl_loop page_loop>  
  
    <a href="<tmpl_var page.url">">  
      <tmpl_var page.menuTitle>  
    </a>  
  
    <tmpl_unless __last__>  
      &gt;  
    </tmpl_unless>  
  
  </tmpl_loop page_loop>  
  
</p>
```

Example 1: crumbtrail

Template

```
<p id="myCrumbtrail">

    <tmpl_loop page_loop>

        <a href="<tmpl_var page.url">">
            <tmpl_var page.menuTitle>
        </a>

        <tmpl_unless __last__>
            &gt;
        </tmpl_unless>

    </tmpl_loop page_loop>

</p>
```

HTML

```
<p id="myCrumbtrail">

    <a href="/home">
        home
    </a>
    &gt;
    <a href="/portfolio">
        portfolio
    </a>
    &gt;
    <a href="/print">
        print design
    </a>

</p>
```

[home](#) > [portfolio](#) > [print design](#)

Example 1: crumbtrail

- `<tmpl_unless __last__>`
- *Unless x* = if x is not true
- `__last__` = the last iteration of the loop
- Other loop vars:
 - `__first__`
 - `__odd__`
 - `__counter__`

```
<p id="myCrumbtrail">
  <tmpl_loop page_loop>
    <a href="<tmpl_var page.url">">
      <tmpl_var page.menuTitle>
    </a>
    <tmpl_unless __last__>
      &gt;
    </tmpl_unless>
  </tmpl_loop page_loop>
</p>
```

Example 1: crumbtrail

Template

```
<p id="myCrumbtrail">

    <tmpl_loop page_loop>

        <a href="<tmpl_var page.url">">
            <tmpl_var page.menuTitle>
        </a>

        <tmpl_unless __last__ >
            &gt;
        </tmpl_unless>

    </tmpl_loop page_loop>

</p>
```

HTML

```
<p id="myCrumbtrail">

    <a href="/home">
        home
    </a>
    &gt;
    <a href="/portfolio">
        portfolio
    </a>
    &gt;
    <a href="/print">
        print design
    </a>

    <u>home > <u>portfolio > <u>print design
```

Example 2: dropdown box

Archive

Please select a page... ▼

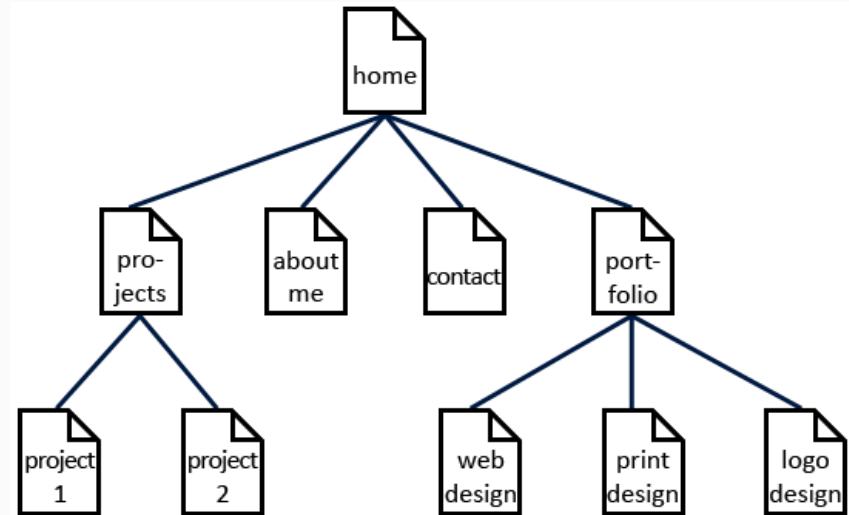
Please select a page...

Archivepage 1

Archivepage 2

Archivepage 3

- A well structured site
- Add a navigation
- The navigation settings
- Choose a template





Example 2: dropdown box

- A well structured site
- Add a navigation
- The navigation settings
- Choose a template

```
^AssetProxy (myDropdownbox) ;
```

Example 2: dropdown box

- A well structured site
- Add a navigation
- The navigation settings
- Choose a template

Start Point Type	Specific URL 
Start Point	<input type="text" value="/archive"/>
Relatives To Include	<input type="checkbox"/> Ancestors <input type="checkbox"/> Self <input type="checkbox"/> Siblings <input checked="" type="checkbox"/> Descendants <input type="checkbox"/> Pedigree
Descendant End Point	<input type="text" value="/a/ (+1)"/> 

Example 2: dropdown box

- A well structured site
- Add a navigation
- The navigation settings
- Choose a template

```
<tmpl_if session.var.adminOn>
  <tmpl_var controls>
</tmpl_if>

<div id="dropdown">

<h4>Archive</h4>
<form action="..">
<div>
<select onchange="document.location =
  this.options[this.selectedIndex].value;">
<option>Please select a page...</option>

<tmpl_loop page_loop>
  <option value="<tmpl_var page.url>">
    <tmpl_var page.menuTitle>
  </option>
</tmpl_loop>

</select>
</div>
</form>

</div>
```

```
<tmpl_if session.var.adminOn>
  <tmpl_var controls>
</tmpl_if>

<div id="dropdown">

<h4>Archive</h4>
<form action="..">
<div>

<select
  onchange="document.location =
  this.options[this.selectedIndex]
  .value;">

<option>
  Please select a page...
</option>
```

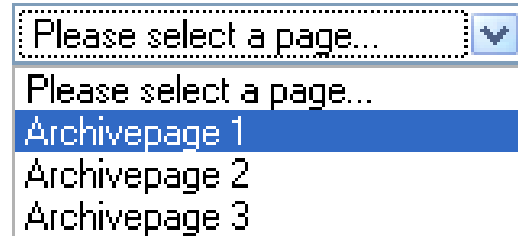
```
<tmpl_loop page_loop>
  <option value="<tmpl_var page.url">">
    <tmpl_var page.menuTitle>
  </option>
</tmpl_loop>

</select>

</div>
</form>

</div>
```

Archive



A screenshot of a web browser displaying a dropdown menu. The menu is titled "Archive" and contains four options: "Please select a page..." (with a downward arrow icon), "Archivepage 1", "Archivepage 2", and "Archivepage 3". The "Archivepage 1" option is currently selected and highlighted in blue.

```
<tmpl_if session.var.adminOn>
  <tmpl_var controls>
</tmpl_if>

<div id="dropdown">

<h4>Archive</h4>
<form action="..">
<div>

<select
  onchange="document.location =
  this.options[this.selectedIndex]
  .value;">

<option>
  Please select a page...
</option>
```

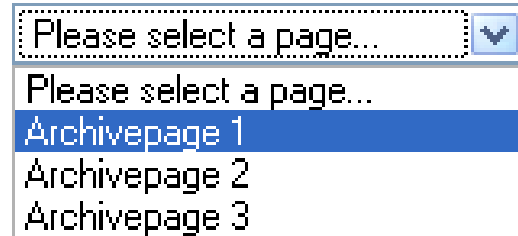
```
<tmpl_loop page_loop>
  <option value="<tmpl_var page.url">">
    <tmpl_var page.menuTitle>
  </option>
</tmpl_loop>

</select>

</div>
</form>

</div>
```

Archive



A screenshot of a web browser showing a dropdown menu. The menu is titled "Archive" and contains four options: "Please select a page..." (with a downward arrow icon), "Archivepage 1", "Archivepage 2", and "Archivepage 3". The "Archivepage 1" option is currently selected and highlighted in blue.

```
<tmpl_if session.var.adminOn>
  <tmpl_var controls>
</tmpl_if>

<div id="dropdown">

<h4>Archive</h4>
<form action="..">
<div>

<select
  onchange="document.location =
  this.options[this.selectedIndex]
  .value;">

<option>
  Please select a page...
</option>
```

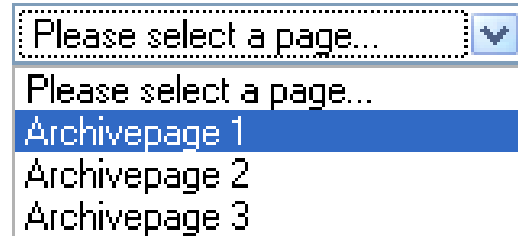
```
<tmpl_loop page_loop>
  <option value="<tmpl_var page.url">">
    <tmpl_var page.menuTitle>
  </option>
</tmpl_loop>

</select>

</div>
</form>

</div>
```

Archive



A screenshot of a web browser displaying a dropdown menu. The menu is titled "Archive" in green text. The dropdown list contains four items: "Please select a page..." (with a small blue arrow icon on the right), "Archivepage 1" (highlighted in blue), "Archivepage 2", and "Archivepage 3". The background of the browser window is white, and there is a faint, pixelated mouse cursor icon in the bottom right corner.

```
<tmpl_if session.var.adminOn>
  <tmpl_var controls>
</tmpl_if>

<div id="dropdown">

<h4>Archive</h4>
<form action="..">
<div>

<select
  onchange="document.location =
  this.options[this.selectedIndex]
  .value;">

<option>
  Please select a page...
</option>
```

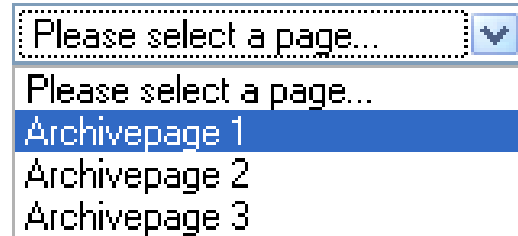
```
<tmpl_loop page_loop>
  <option value="<tmpl_var page.url">">
    <tmpl_var page.menuTitle>
  </option>
</tmpl_loop>

</select>

</div>
</form>

</div>
```

Archive



A screenshot of a web browser showing a dropdown menu. The menu is titled "Archive" and contains four options: "Please select a page..." (with a dropdown arrow), "Archivepage 1", "Archivepage 2", and "Archivepage 3". The "Archivepage 1" option is currently selected and highlighted in blue.

```
<tmpl_if session.var.adminOn>
  <tmpl_var controls>
</tmpl_if>

<div id="dropdown">

<h4>Archive</h4>
<form action="..">
<div>

<select
  onchange="document.location =
  this.options[this.selectedIndex]
  .value;">

<option>
  Please select a page...
</option>
```

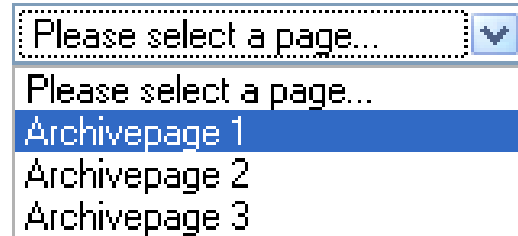
```
<tmpl_loop page_loop>
  <option value="<tmpl_var page.url">">
    <tmpl_var page.menuTitle>
  </option>
</tmpl_loop>

</select>

</div>
</form>

</div>
```

Archive



A screenshot of a web browser displaying a dropdown menu. The menu is titled "Archive" and contains four options: "Please select a page..." (selected), "Archivepage 1", "Archivepage 2", and "Archivepage 3". The selected option is highlighted in blue. The dropdown menu is open, showing the list of options.

```
<tmpl_if session.var.adminOn>
  <tmpl_var controls>
</tmpl_if>

<div id="dropdown">

<h4>Archive</h4>
<form action="..">
<div>

<select
  onchange="document.location =
  this.options[this.selectedIndex]
  .value;">

<option>
  Please select a page...
</option>
```

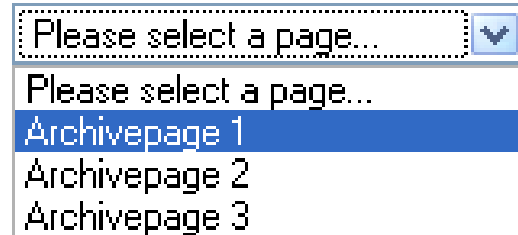
```
<tmpl_loop page_loop>
  <option value="<tmpl_var page.url">">
    <tmpl_var page.menuTitle>
  </option>
</tmpl_loop>

</select>

</div>
</form>

</div>
```

Archive



A screenshot of a web browser displaying a dropdown menu. The menu is titled "Archive" and contains four options: "Please select a page..." (the selected option), "Archivepage 1", "Archivepage 2", and "Archivepage 3". The browser's address bar shows "Please select a page..." and the page title is "Please select a page...".

```
<tmpl_if session.var.adminOn>
  <tmpl_var controls>
</tmpl_if>

<div id="dropdown">

<h4>Archive</h4>
<form action="..">
<div>

<select
  onchange="document.location =
  this.options[this.selectedIndex]
  .value;">
```

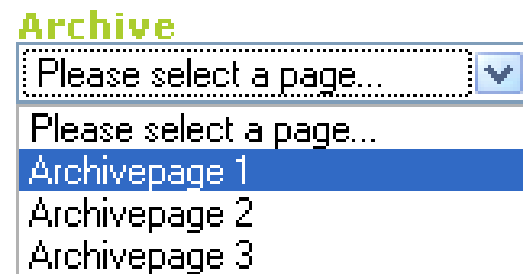
```
<option>
  Please select a page...
</option>
```

```
<tmpl_loop page_loop>
  <option value="<tmpl_var page.url">">
    <tmpl_var page.menuTitle>
  </option>
</tmpl_loop>

</select>

</div>
</form>

</div>
```



```
<tmpl_if session.var.adminOn>
  <tmpl_var controls>
</tmpl_if>

<div id="dropdown">

<h4>Archive</h4>
<form action="..">
<div>

<select
  onchange="document.location =
  this.options[this.selectedIndex]
  .value;">

<option>
  Please select a page...
</option>
```

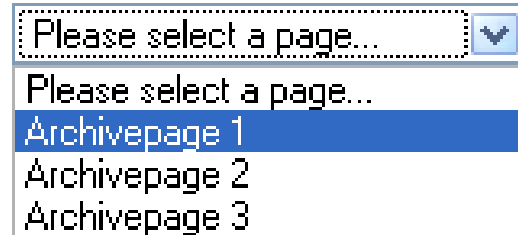
```
<tmpl_loop page_loop>
  <option value="<tmpl_var page.url">">
    <tmpl_var page.menuTitle>
  </option>
</tmpl_loop>

</select>

</div>
</form>

</div>
```

Archive



Please select a page... ▼

- Please select a page...
- Archivepage 1
- Archivepage 2
- Archivepage 3

```
<tmpl_if session.var.adminOn>
  <tmpl_var controls>
</tmpl_if>

<div id="dropdown">
<tmpl_loop page_loop>

<tmpl_if __first__>
  <h4>Archive</h4>
  <form action="..">
  <div>
  <select
    onchange="document.location =
    this.options[this.selectedIndex]
    .value;">

  <option>
    Please select a page...
  </option>
</tmpl_if>
```

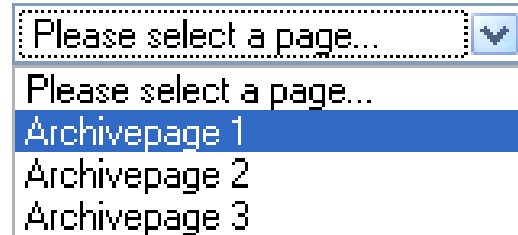
```
<option value="<tmpl_var page.url">">
  <tmpl_var page.menuTitle>
</option>

<tmpl_if __last__>
  </select>
</div>
</form>
</tmpl_if>

</tmpl_loop>

</div>
```

Archive



A screenshot of a web browser showing a dropdown menu. The menu is titled "Archive" and contains four options: "Please select a page..." (selected), "Archivepage 1", "Archivepage 2", and "Archivepage 3". The selected option is highlighted in blue. The dropdown menu is open, showing the list of options.

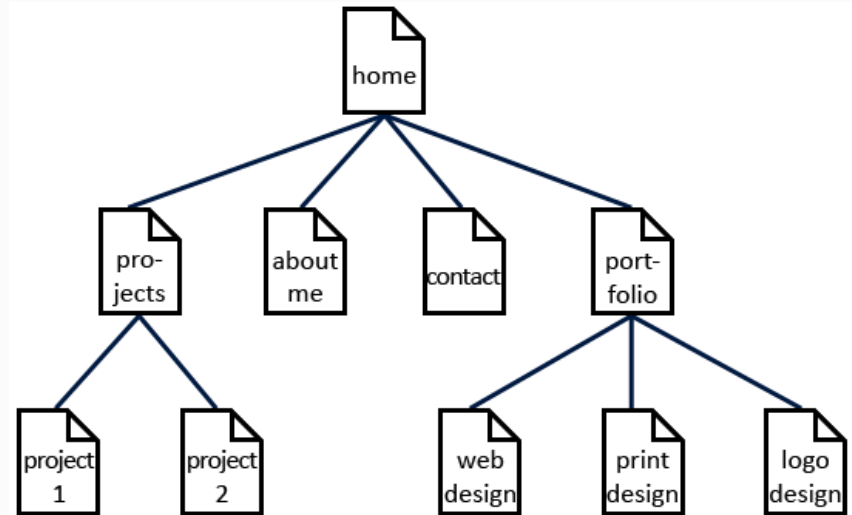
Example 3: main menu

- [Home](#)
- [Horizontal nav](#)
- [Archive](#)
 - [Archivepage 1](#)
 - [Archivepage 2](#)
 - [Archivepage 3](#)
- [All navigations](#)
- [All templates](#)
- [Login](#)



Home	
Horizontal nav	
Archive	Archivepage 1
All navigations	Archivepage 2
All templates	Archivepage 3
Login	

- A well structured site
- Add a navigation
- The navigation settings
- Choose a template



Example 3: main menu

- A well structured site
- Add a navigation
- The navigation settings
- Choose a template

```
^AssetProxy (myMenu) ;
```

Example 3: main menu

- A well structured site
- Add a navigation
- The navigation settings
- Choose a template

Start Point Type	Relative To Root
Start Point	/a/ (+1)
Relatives To Include	<input type="checkbox"/> Ancestors <input type="checkbox"/> Self <input type="checkbox"/> Siblings <input checked="" type="checkbox"/> Descendants <input type="checkbox"/> Pedigree
Descendant End Point	Infinity

Start Point Type	Specific URL
Start Point	/home
Relatives To Include	<input type="checkbox"/> Ancestors <input type="checkbox"/> Self <input type="checkbox"/> Siblings <input checked="" type="checkbox"/> Descendants <input type="checkbox"/> Pedigree
Descendant End Point	Infinity

Example 3: main menu

- A well structured site
- Add a navigation
- The navigation settings
- Choose a template:
 - The bulleted list template



The bulleted list template

- What kind of html should this template generate?

The bulleted list template

- What kind of html should this template generate?
 - An html unordered list

```
<ul>  
  <li>Page 1</li>  
  <li>Page 2</li>  
  <li>Page 3</li>  
  <li>Page 4</li>  
</ul>
```

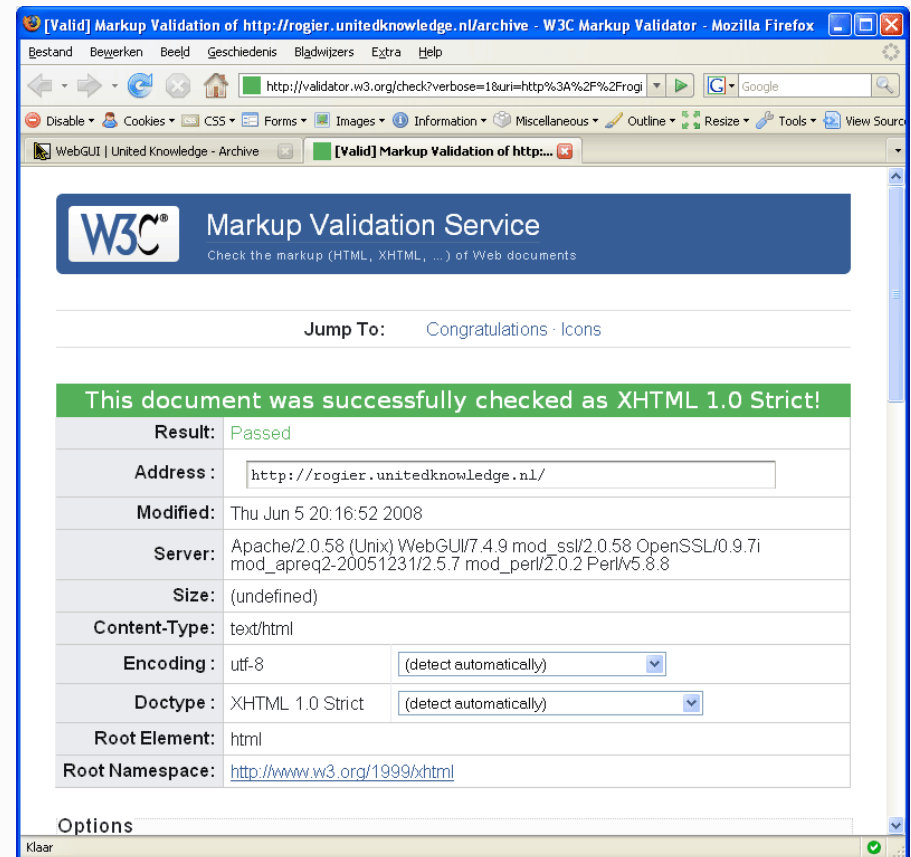
The bulleted list template

- What kind of html should this template generate?
 - An html unordered list
 - ... with nested Uls for subpages

```
<ul>
  <li>Page 1</li>
  <li>Page 2</li>
  <li>Page 3
    <ul>
      <li>Page 3.1</li>
      <li>Page 3.2</li>
    </ul>
  </li>
  <li>Page 4</li>
</ul>
```

The bulleted list template

- What kind of html should this template generate?
 - An html unordered list
 - ... with nested Uls for subpages
 - ...and validating as *xhtml 1.0 strict*



The screenshot shows the W3C Markup Validation Service interface in a Mozilla Firefox browser. The page title is "[Valid] Markup Validation of http://rogier.unitedknowledge.nl/archive - W3C Markup Validator". The browser's address bar shows the URL "http://validator.w3.org/check?verbose=1&uri=http%3A%2F%2Frogier.unitedknowledge.nl/archive". The page content includes the W3C logo and the text "Markup Validation Service" with the subtitle "Check the markup (HTML, XHTML, ...) of Web documents". Below this, there is a "Jump To:" section with links for "Congratulations" and "Icons". A green banner states "This document was successfully checked as XHTML 1.0 Strict!". A table of validation details follows:

Result:	Passed
Address:	<input type="text" value="http://rogier.unitedknowledge.nl/"/>
Modified:	Thu Jun 5 20:16:52 2008
Server:	Apache/2.0.58 (Unix) WebGUI/7.4.9 mod_ssl/2.0.58 OpenSSL/0.9.7i mod_apreq2-20051231/2.5.7 mod_perl/2.0.2 Perl/v5.8.8
Size:	(undefined)
Content-Type:	text/html
Encoding:	utf-8 <input type="text" value="(detect automatically)"/>
Doctype:	XHTML 1.0 Strict <input type="text" value="(detect automatically)"/>
Root Element:	html
Root Namespace:	http://www.w3.org/1999/xhtml

At the bottom, there is an "Options" section with a "Klaar" button and a green checkmark icon.

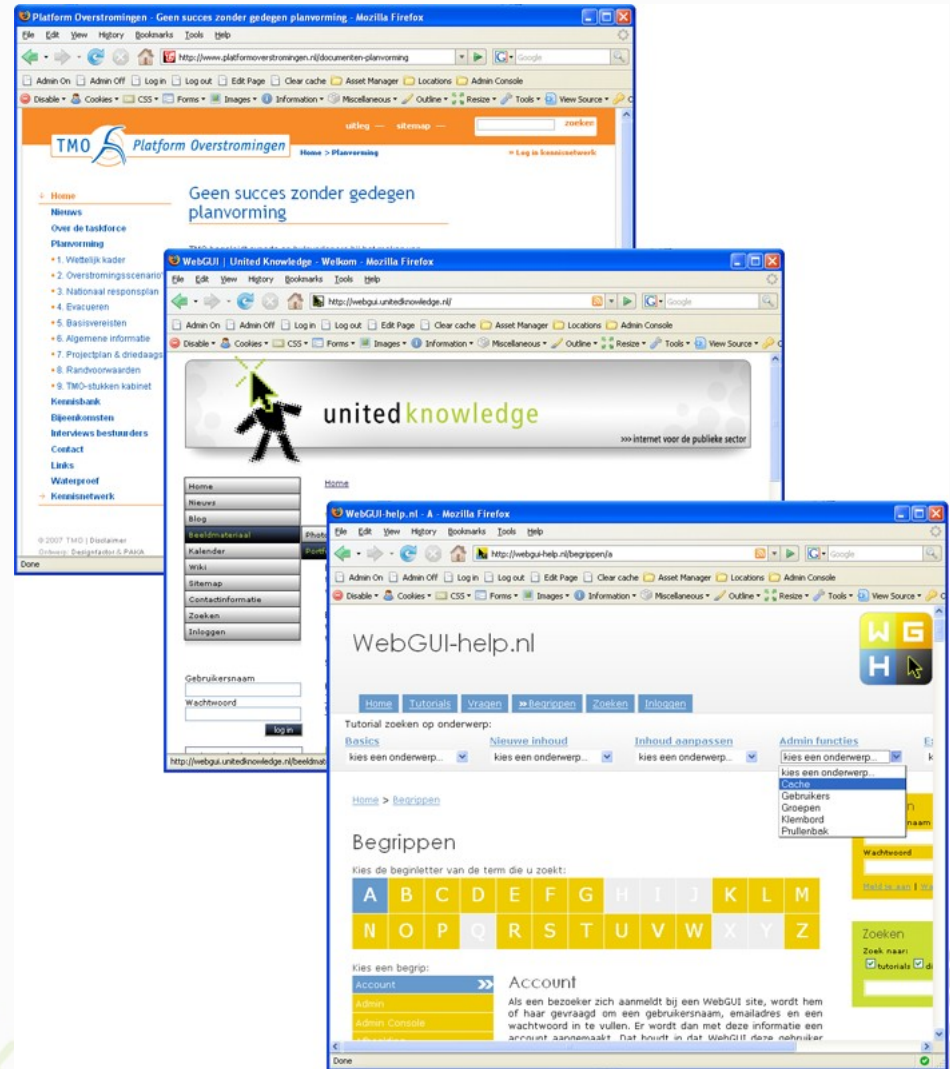
A correctly nested UL

- A sublevel is an UL within an UL
- The nested UL must be within the LI tag of the parent page

```
<ul>  
  <li>Page 1</li>  
  <li>Page 2</li>  
  <li>Page 3  
    <ul>  
      <li>Page 3.1</li>  
      <li>Page 3.2</li>  
    </ul>  
  </li>  
  <li>Page 4</li>  
</ul>
```

Why a nested unordered list?

- Accessibility guidelines
- Semantic HTML: a menu is a *list* of pages
- You can use CSS to style the menu
- No design limitations



united knowledge

The bulleted list template

- So, what we want is this:
 - An html unordered list
 - ... with nested Uls for subpages
 - ...and validating as *xhtml 1.0 strict*
- For a long time a bug made this very difficult, but not anymore...

Bugs!

- There was a bug in the navigation
- It was impossible to make a template that works for any settings
- But: Martin Kamerbeek fixed it!

Thanks Martin!



```
<tmpl_if session.var.adminOn>
  <tmpl_var controls><br />
</tmpl_if>

<tmpl_if displayTitle>
  <h2><tmpl_var title></h2>
</tmpl_if>

<tmpl_if description>
  <tmpl_var description>
</tmpl_if>

<tmpl_loop page_loop>

<tmpl_if __FIRST__>
  <ul class="menu">
    <li><tmpl_if currentPage.isHome>
      class="current"</tmpl_if>>
      ^H();
    </li>
  </tmpl_if>
```

```
<tmpl_loop page.depthDiff_loop>
  </ul>
  </li>
</tmpl_loop>

<li><tmpl_if page.isCurrent>
  class="current"</tmpl_if>>
  <a href="<tmpl_var page.url">">
    <tmpl_var page.menuTitle>
  </a>

  <tmpl_if page.hasViewableChildren>
    <ul>
  <tmpl_else>
    </li>
  </tmpl_if>

  <tmpl_if __LAST__>
    <tmpl_loop page.indent_loop>
      </ul>
    </li>
  </tmpl_loop>
  <li>^LoginToggle();</li>
  </ul>
</tmpl_if>

</tmpl_loop>
```

```
<tmpl_if session.var.adminOn>
  <tmpl_var controls><br />
</tmpl_if>
```

```
<tmpl_if displayTitle>
  <h2><tmpl_var title></h2>
</tmpl_if>
```

```
<tmpl_if description>
  <tmpl_var description>
</tmpl_if>
```

```
<tmpl_loop page_loop>
```

```
<tmpl_if __FIRST__>
  <ul class="menu">
    <li><tmpl_if currentPage.isHome>
      class="current"</tmpl_if>>
      ^H();
    </li>
  </tmpl_if>
```

```
<tmpl_loop page.depthDiff_loop>
  </ul>
  </li>
</tmpl_loop>
```

```
<li><tmpl_if page.isCurrent>
  class="current"</tmpl_if>>
<a href="<tmpl_var page.url">">
  <tmpl_var page.menuTitle>
</a>
```

```
<tmpl_if page.hasViewableChildren>
  <ul>
<tmpl_else>
  </li>
</tmpl_if>
```

```
<tmpl_if __LAST__>
  <tmpl_loop page.indent_loop>
    </ul>
    </li>
  </tmpl_loop>
  <li>^LoginToggle();</li>
  </ul>
</tmpl_if>
```

```
</tmpl_loop>
```

```

<tmpl_loop page_loop>

<tmpl_if __FIRST__>
  <ul class="menu">
    <li<tmpl_if currentPage.isHome>
      class="current"</tmpl_if>>
      ^H();
    </li>
  </tmpl_if>

<tmpl_loop page.depthDiff_loop>
  </ul>
</li>
</tmpl_loop>

<li<tmpl_if page.isCurrent>
  class="current"</tmpl_if>>
<a href="<tmpl_var page.url>">
  <tmpl_var page.menuTitle>
</a>

```

```

<tmpl_if page.hasViewableChildren>
  <ul>
<tmpl_else>
  </li>
</tmpl_if>

<tmpl_if __LAST__>
  <tmpl_loop page.indent_loop>
    </ul>
  </li>
</tmpl_loop>
<li>^LoginToggle();</li>
</ul>
</tmpl_if>

</tmpl_loop>

```



```
<tmpl_loop page_loop>
```

```
<tmpl_if __FIRST__>
```

```
  <ul class="menu">
```

```
</tmpl_if>
```

```
<tmpl_loop page.depthDiff_loop>
```

```
  </ul>
```

```
  </li>
```

```
</tmpl_loop>
```

```
<li>
```

```
<a href="<tmpl_var page.url">">
```

```
  <tmpl_var page.menuTitle>
```

```
</a>
```

```
<tmpl_if page.hasViewableChildren>
```

```
  <ul>
```

```
<tmpl_else>
```

```
  </li>
```

```
</tmpl_if>
```

```
<tmpl_if __LAST__>
```

```
  <tmpl_loop page.indent_loop>
```

```
    </ul>
```

```
    </li>
```

```
  </tmpl_loop>
```

```
</ul>
```

```
</tmpl_if>
```

```
</tmpl_loop>
```



```
<tmpl_loop page_loop>
```

```
<tmpl_if __FIRST__>
```

```
<ul class="menu">
```

```
</tmpl_if>
```

```
<tmpl_loop page.depthDiff_loop>
```

```
</ul>
```

```
</li>
```

```
</tmpl_loop>
```

```
<li>
```

```
<a href="<tmpl_var page.url">">
```

```
<tmpl_var page.menuTitle>
```

```
</a>
```

```
<tmpl_if page.hasViewableChildren>
```

```
<ul>
```

```
<tmpl_else>
```

```
</li>
```

```
</tmpl_if>
```

```
<tmpl_if __LAST__>
```

```
<tmpl_loop page.indent_loop>
```

```
</ul>
```

```
</li>
```

```
</tmpl_loop>
```

```
</ul>
```

```
</tmpl_if>
```

```
</tmpl_loop>
```



```
<tmpl_loop page_loop>
```

```
<tmpl_if __FIRST__>
```

```
<ul class="menu">
```

```
</tmpl_if>
```

```
<tmpl_loop page.depthDiff_loop>
```

```
</ul>
```

```
</li>
```

```
</tmpl_loop>
```

```
<li>
```

```
<a href="<tmpl_var page.url">">
```

```
<tmpl_var page.menuTitle>
```

```
</a>
```

```
<tmpl_if page.hasViewableChildren>
```

```
<ul>
```

```
<tmpl_else>
```

```
</li>
```

```
</tmpl_if>
```

```
<tmpl_if __LAST__>
```

```
<tmpl_loop page.indent_loop>
```

```
</ul>
```

```
</li>
```

```
</tmpl_loop>
```

```
</ul>
```

```
</tmpl_if>
```

```
</tmpl_loop>
```



```
<tmpl_loop page_loop>
```

```
<tmpl_if __FIRST__>
```

```
  <ul class="menu">
```

```
</tmpl_if>
```

```
<tmpl_loop page.depthDiff_loop>
```

```
  </ul>
```

```
  </li>
```

```
</tmpl_loop>
```

```
<li>
```

```
<a href="<tmpl_var page.url">">
```

```
  <tmpl_var page.menuTitle>
```

```
</a>
```

```
<tmpl_if page.hasViewableChildren>
```

```
  <ul>
```

```
<tmpl_else>
```

```
  </li>
```

```
</tmpl_if>
```

```
<tmpl_if __LAST__>
```

```
  <tmpl_loop page.indent_loop>
```

```
    </ul>
```

```
    </li>
```

```
  </tmpl_loop>
```

```
</ul>
```

```
</tmpl_if>
```

```
</tmpl_loop>
```



```
<tmpl_loop page_loop>

<tmpl_if __FIRST__>
  <ul class="menu">
</tmpl_if>

<tmpl_loop page.depthDiff_loop>
  </ul>
  </li>
</tmpl_loop>

<li>
<a href="<tmpl_var page.url">">
  <tmpl_var page.menuTitle>
</a>
```

Example:

```
<ul>
  <li>item1</li>
  <li>item2
    <ul>
      <li>item2.1</li>
      <li>item2.2</li> depth=1
    </ul>
  </li>
  <li>item3</li> depth=0
  <li>item4</li>
</ul>
```



```
<tmpl_loop page_loop>

<tmpl_if __FIRST__>
  <ul class="menu">
</tmpl_if>

<tmpl_loop page.depthDiff_loop>
  </ul>
  </li>
</tmpl_loop>

<li>
<a href="<tmpl_var page.url">">
  <tmpl_var page.menuTitle>
</a>
```

Another example:

```
<ul>
  <li>item1</li>
  <li>item2
    <ul>
      <li>item2.1</li>
      <li>item2.2
        <ul>
          <li>item2.2.1</li> depth=2
        </ul>
      </li>
    </ul>
  </li>
  <li>item3</li> depth=0
  <li>item4</li>
</ul>
```

```
<tmpl_loop page_loop>
```

```
<tmpl_if __FIRST__>
```

```
<ul class="menu">
```

```
</tmpl_if>
```

```
<tmpl_loop page.depthDiff_loop>
```

```
</ul>
```

```
</li>
```

```
</tmpl_loop>
```

```
<li>
```

```
<a href="<tmpl_var page.url">">
```

```
<tmpl_var page.menuTitle>
```

```
</a>
```

```
<tmpl_if page.hasViewableChildren>
```

```
<ul>
```

```
<tmpl_else>
```

```
</li>
```

```
</tmpl_if>
```

```
<tmpl_if __LAST__>
```

```
<tmpl_loop page.indent_loop>
```

```
</ul>
```

```
</li>
```

```
</tmpl_loop>
```

```
</ul>
```

```
</tmpl_if>
```

```
</tmpl_loop>
```



```
<tmpl_loop page_loop>
```

```
<tmpl_if __FIRST__>
```

```
  <ul class="menu">
```

```
</tmpl_if>
```

```
<tmpl_loop page.depthDiff_loop>
```

```
  </ul>
```

```
  </li>
```

```
</tmpl_loop>
```

```
<li>
```

```
<a href="<tmpl_var page.url">">
```

```
  <tmpl_var page.menuTitle>
```

```
</a>
```

```
<tmpl_if page.hasViewableChildren>
```

```
  <ul>
```

```
<tmpl_else>
```

```
  </li>
```

```
</tmpl_if>
```

```
<tmpl_if __LAST__>
```

```
  <tmpl_loop page.indent_loop>
```

```
    </ul>
```

```
    </li>
```

```
  </tmpl_loop>
```

```
</ul>
```

```
</tmpl_if>
```

```
</tmpl_loop>
```



Example:

```
<ul>
  <li>item1</li>
  <li>item2 (hasViewableChildren)
    <ul>
      <li>item2.1</li>
      <li>item2.2</li>
    </ul>
  </li>
  <li>item3</li>
  <li>item4</li>
</ul>
```

```
<tmpl_if page.hasViewableChildren>
  <ul>
    <tmpl_else>
      </li>
    </tmpl_if>

  <tmpl_if __LAST__>
    <tmpl_loop page.indent_loop>
      </ul>
    </li>
  </tmpl_loop>
</ul>
</tmpl_if>

</tmpl_loop>
```

```
<tmpl_loop page_loop>
```

```
<tmpl_if __FIRST__>
```

```
  <ul class="menu">
```

```
</tmpl_if>
```

```
<tmpl_loop page.depthDiff_loop>
```

```
  </ul>
```

```
  </li>
```

```
</tmpl_loop>
```

```
<li>
```

```
<a href="<tmpl_var page.url">">
```

```
  <tmpl_var page.menuTitle>
```

```
</a>
```

```
<tmpl_if page.hasViewableChildren>
```

```
  <ul>
```

```
<tmpl_else>
```

```
  </li>
```

```
</tmpl_if>
```

```
<tmpl_if __LAST__>
```

```
  <tmpl_loop page.indent_loop>
```

```
    </ul>
```

```
    </li>
```

```
  </tmpl_loop>
```

```
</ul>
```

```
</tmpl_if>
```

```
</tmpl_loop>
```



Example:

```
<ul>
  <li>item1</li>
  <li>item2</li>
  <li>item3</li>
  <li>item4</li> indent=0
</ul>
```

```
<tmpl_if page.hasViewableChildren>
  <ul>
<tmpl_else>
  </li>
</tmpl_if>

<tmpl_if __LAST__>
  <tmpl_loop page.indent_loop>
    </ul>
    </li>
  </tmpl_loop>
</ul>
</tmpl_if>

</tmpl_loop>
```

Example:

```
<ul>
  <li>item1</li>
  <li>item2</li>
  <li>item3</li>
  <li>item4
    <ul>
      <li>item2.1</li>
      <li>item2.2</li> indent=1
    </ul>
  </li>
</ul>
```

```
<tmpl_if page.hasViewableChildren>
  <ul>
<tmpl_else>
  </li>
</tmpl_if>

<tmpl_if __LAST__>
  <tmpl_loop page.indent_loop>
    </ul>
    </li>
  </tmpl_loop>
</ul>
</tmpl_if>

</tmpl_loop>
```



```
<tmpl_loop page_loop>
```

```
<tmpl_if __FIRST__>
```

```
  <ul class="menu">
```

```
</tmpl_if>
```

```
<tmpl_loop page.depthDiff_loop>
```

```
  </ul>
```

```
  </li>
```

```
</tmpl_loop>
```

```
<li>
```

```
<a href="<tmpl_var page.url">">
```

```
  <tmpl_var page.menuTitle>
```

```
</a>
```

```
<tmpl_if page.hasViewableChildren>
```

```
  <ul>
```

```
<tmpl_else>
```

```
  </li>
```

```
</tmpl_if>
```

```
<tmpl_if __LAST__>
```

```
  <tmpl_loop page.indent_loop>
```

```
    </ul>
```

```
    </li>
```

```
  </tmpl_loop>
```

```
</ul>
```

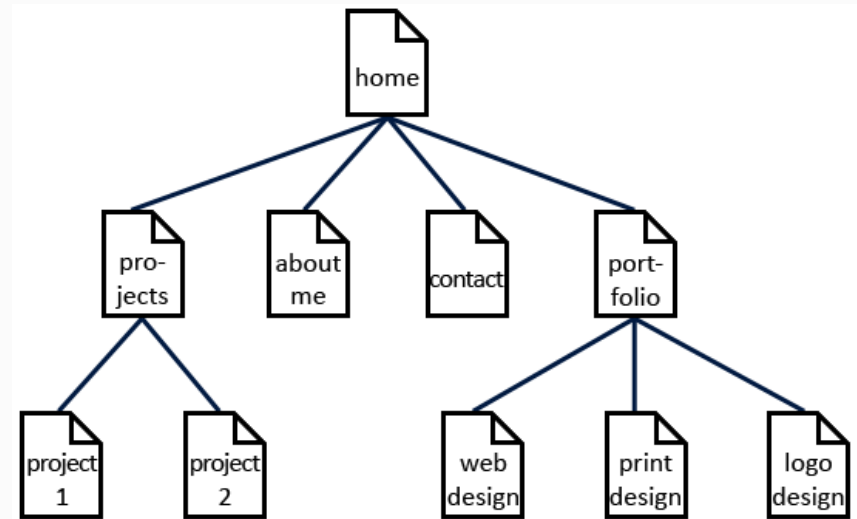
```
</tmpl_if>
```

```
</tmpl_loop>
```



Additions

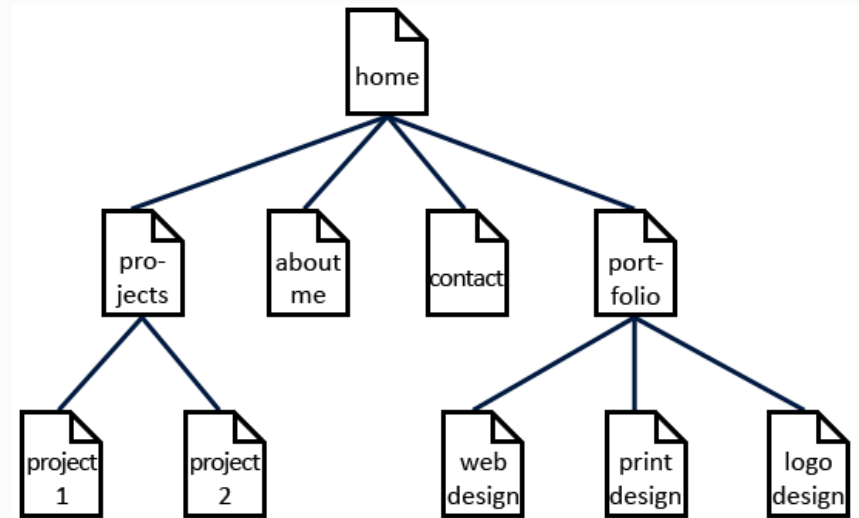
- Home on the same level as its subpages
 - Projects
 - Project 1
 - Project 2
 - About me
 - Contact
 - Portfolio
 - Web design
 - Print design
 - Logo design



Additions

- Home on the same level as its subpages

- Home
- Projects
 - Project 1
 - Project 2
- About me
- Contact
- Portfolio
 - Web design
 - Print design
 - Logo design



```
<tmpl_loop page_loop>

<tmpl_if __FIRST__>
  <ul class="menu">
    <li>^H;</li>
  </tmpl_if>

<tmpl_loop page.depthDiff_loop>
  </ul>
  </li>
</tmpl_loop>

<li>
<a href="<tmpl_var page.url">">
  <tmpl_var page.menuTitle>
</a>
```

```
<tmpl_if page.hasViewableChildren>
  <ul>
<tmpl_else>
  </li>
</tmpl_if>

<tmpl_if __LAST__>
  <tmpl_loop page.indent_loop>
    </ul>
    </li>
  </tmpl_loop>
</ul>
</tmpl_if>

</tmpl_loop>
```



^H; macro

Template

```
^H;
```

```
^H("Homepage");
```

HTML

```
<a class="homeLink"  
    href="/home">  
    Home  
</a>
```

```
<a class="homeLink"  
    href="/home">  
    Homepage  
</a>
```

More additions

- Login/logout link at the bottom of the menu

Home	
Horizontal nav	
Archive	Archivepage 1
All navigations	Archivepage 2
All templates	Archivepage 3
Login	

```
<tmpl_loop page_loop>

<tmpl_if __FIRST__>
  <ul class="menu">
    <li>^H;</li>
  </tmpl_if>

<tmpl_loop page.depthDiff_loop>
  </ul>
  </li>
</tmpl_loop>

<li>
<a href="<tmpl_var page.url">">
  <tmpl_var page.menuTitle>
</a>
```

```
<tmpl_if page.hasViewableChildren>
  <ul>
<tmpl_else>
  </li>
</tmpl_if>

<tmpl_if __LAST__>
  <tmpl_loop page.indent_loop>
    </ul>
    </li>
  </tmpl_loop>
  <li>^LoginToggle;</li>
</ul>
</tmpl_if>

</tmpl_loop>
```



^LoginToggle; macro

Template

```
^LoginToggle;
```

```
^LoginToggle("Click here to  
log in.", "Click here to  
log out.");
```

HTML

```
<a class="loginToggleLink"  
  href="/url?  
  op=auth;method=logout">  
  Log in  
</a>
```

```
<a class="loginToggleLink"  
  href="/url?  
  op=auth;method=logout">  
  Click here to log in  
</a>
```

Even more additions

- Display the current page

```
<tmpl_if page.isCurrent>  
  class="current"  
</tmpl_if>
```



```
<tmpl_loop page_loop>

<tmpl_if __FIRST__>
  <ul class="menu">
    <li>^H;</li>
  </tmpl_if>

<tmpl_loop page.depthDiff_loop>
  </ul>
  </li>
</tmpl_loop>

<li<tmpl_if page.isCurrent>
  class="current" </tmpl_if>>

<a href="<tmpl_var page.url">">
  <tmpl_var page.menuTitle>
</a>
```

```
<tmpl_if page.hasViewableChildren>
  <ul>
<tmpl_else>
  </li>
</tmpl_if>

<tmpl_if __LAST__>
  <tmpl_loop page.indent_loop>
    </ul>
    </li>
  </tmpl_loop>
  <li>^LoginToggle;</li>
</ul>
</tmpl_if>

</tmpl_loop>
```



```
<tmpl_loop page_loop>

<tmpl_if __FIRST__>
  <ul class="menu">
    <li>^H;</li> ???
  </ul>
</tmpl_if>

<tmpl_loop page.depthDiff_loop>
  </ul>
  </li>
</tmpl_loop>

<li<tmpl_if page.isCurrent>
  class="current" </tmpl_if>>

<a href="<tmpl_var page.url">">
  <tmpl_var page.menuTitle>
</a>
```

```
<tmpl_if page.hasViewableChildren>
  <ul>
<tmpl_else>
  </li>
</tmpl_if>

<tmpl_if __LAST__>
  <tmpl_loop page.indent_loop>
    </ul>
    </li>
  </tmpl_loop>
  <li>^LoginToggle;</li>
</ul>
</tmpl_if>

</tmpl_loop>
```

But what if the current page is home?

```
<tmpl_loop page_loop>

<tmpl_if __FIRST__>
  <ul class="menu">
    <li<tmpl_if currentPage.isHome>
      class="current"</tmpl_if>>
      ^H;
    </li>
  </tmpl_if>

  <tmpl_loop page.depthDiff_loop>
    </ul>
    </li>
  </tmpl_loop>

  <li<tmpl_if page.isCurrent>
    class="current"</tmpl_if>>
```

```
<a href="<tmpl_var page.url">">
  <tmpl_var page.menuTitle>
</a>

<tmpl_if page.hasViewableChildren>
  <ul>
<tmpl_else>
  </li>
</tmpl_if>

<tmpl_if __LAST__>
  <tmpl_loop page.indent_loop>
    </ul>
    </li>
  </tmpl_loop>
  <li>^LoginToggle;</li>
</ul>
</tmpl_if>

</tmpl_loop>
```



```
<div class="menu">
  <ul>
    <li class="current"><a
      class="homeLink" href="/home">
        Home</a>
    </li>
    <li><a href="/page1">
      Page 1</a>
    <ul>
      <li><a href="/page1-1">
        Page 1.1</a>
      </li>
    </ul>
  </li>
  <li><a href="/page2">
    Page 2</a>
  </li>
  ...
  <li><a class="loginToggleLink"
    href="/home?
    op=auth;method=logout">
    Login</a>
  </li>
</ul>
</div>
```



Design

- Use CSS, and maybe a bit of javascript
- Once you have an UL, you can design whatever you want
- Take a look at:
 - <http://css.maxdesign.com.au/> (Listamatic)
 - <http://www.cssplay.co.uk/menus/>

Summary

1. A well structured site

Summary

2. Add a navigation:

- `^AssetProxy(myNavUrl);`

Summary

3. The navigation settings

Start Point Type:

Start Point:

Relatives To Include:

- Relative To Current URL
- Relative To Root
- Self
- Siblings
- Descendants
- Pedigree

Descendant End Point:

Start Point Type:

Start Point:

Relatives To Include:

- Ancestors
- Self
- Siblings
- Descendants
- Pedigree

Descendant End Point:

Summary

4. Choose a template:

- Crumbtrail
 - Dropdown box
 - Bulleted list
-
- Hopefully now you can make your own!

Download

- The 3 templates
- This presentation

At <http://rogier.unitedknowledge.org/wuc2008/>

Q?

united knowledge

