



Making a simple personal website - Template provided (Adapted presentation)

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Presenting with some useful resources:

- Quick overview of HTML/CSS/Javascript
- How to set up your website
- How to modify the template
- General tips and ToDos

Goal: Having a personal simple website and being able to modify the layout
Not an attempt to learn web languages

HTML

- Structure of web page
- HTML elements are delimited by tags: `<header></header>` or `
`
- HTML block elements: `<div></div>`, ``, etc.
- HTML inline elements: `<a>`, ``, ``, etc.

CSS

- Customize appearance of web page
- Declaration block for selectors: `html-element`, `.class` or `#id`

```
<p class="example">  
Blabla</p>
```

```
.example{  
  property: value;}
```

Javascript

- Scripting language to have interactive web pages (eg. animations, pop-ups)

Good practice

- Have separate files for each programming language (.html, .css or .js)

Tutorials to learn more

- <https://www.w3schools.com/> and everything about HTML tags and CSS properties
- <https://learn.shayhowe.com/html-css/>

Open web page

- Contact support staff (Ronny, Engelbert) to open our own web space
- URL of your website: `https://www.cs.ru.nl/~<login>`
- Directory location on remote server: `/www/cs/live/htdocs/personal/<login>`
- See Wiki: <https://wiki.icis-intra.cs.ru.nl/Webpage>

Update content to remote server

- Bash shell

```
pscp -r my/local/path
```

```
<login>@lilo.science.ru.nl:/www/cs/live/htdocs/personal/<login>
```

- Windows PowerShell (v6 or higher)

```
pscp -r C:\my\local\path
```

```
<login>@lilo.science.ru.nl:/www/cs/live/htdocs/personal/<login>
```

- For older versions of PowerShell: use pscp command from PuTTY

Local changes

- Open and change files with text editor (eg. Sublime Text, vim) but **not** NotePad
- Check modification on your local HTTP server: WAMP (Windows) or LAMP (Linux)
 - **For Windows:** Install WAMP Server
(<https://sourceforge.net/projects/wampserver/>)
 - Put our directory 'myWebsite\' in C:\wamp64\www\
 - Open <localhost/myWebsite/page.html> in your web browser
 - Once finished, use pscp to update to remote server

Use **Web Console** from your browser to modify design on-the-fly

- Windows, Linux: `Ctrl + Shift + i`
- Mac: `Command + Option + i`
- Then, edit changes with your text editor

Colors

- Define in advance a color palette up to 5 colors
- Choose at least 1 light, 1 dark, 1 'attractive'
- Pick up a palette: <https://coolors.co/>
- Or use *Eyedropper* from the Web Console to pick up a color

And check for the contrast!

Accessibility

- Check contrast colors foreground/background:
<https://contrastchecker.com/> (safe ratio: 7)
- Add description to your pictures: ``
- Check accessibility with Web Console (Shift + F12 in Firefox)
- General guidelines: https://developer.mozilla.org/fr/docs/Web/Accessibility/Understanding_WCAG

Font

- Use appropriate fonts
- Find a good font pair (headings + text): <https://fontpair.co/>
- Customized font in the template (Roboto + Roboto Slab)

UX or User eXperience

- Highlight your links
- Users need feedback when clicking (eg. in CSS for links: `a:hover`)

Responsive Web Design

- Adapt content according to screen size
- Code in CSS:

```
/* Adapt style for small screens */  
@media (max-width: 48em) {}
```
- Check result for smaller screen sizes with Web Console (smartphones, tablets)
- And check result for very large screen (but you need one)

Browser compatibility

- Be aware of code compatibility for different browsers and their versions (specially for CSS properties)

Markup validator and security

- Check the validity of your Web documents: <https://validator.w3.org/>
- Enhance security:
 - Add secure links: `httpS://`
 - Change the redirection of errors to one of your webpages with `.htaccess`
 - Prevent Directory Traversal with `.htaccess`

Editing HTML page

- Be careful with What-You-See-Is-What-You-Get HTML editors
 - Code gets messy
 - Search engines tend to promote websites with clean code

- Download the template and this presentation from the repository:
git@gitlab.science.ru.nl:aguinet/webtemplate.git
- Play around with the template
- Let me know if you have any question or remark

Have fun!