

HTML 5 & DEVELOPMENT TOOLS

Please Note: This worksheet aims to explain (among other topics) the structure of an HTML 5 web page and the different tools available in Google's Chrome Browser.

Before solving any exercise Node.js must be installed in order to use an app called "http-server" to serve the exercise static content. Go to <http://nodejs.org> and follow the instructions.

After installing Node.js just open a terminal and install globally the package "http-server".

```
npm install -g http-server
```

Next create the folders "CAD/Worksheets/01---HTML5" to place the code of this worksheet. It is important to follow this structure to later use GIT.

1) First HTML page

Inside the folder "CAD/Worksheets/01---HTML5" create a web page called "index.html" with the following content:

Raw content	Appearance
Home Sweet Home Kitchen Temperature 21.6 °C 5 minutes ago Lights Off 10 minutes ago West Window Open 15 minutes ago North Window Open 15 minutes ago Living Room Temperature 22.6 °C 5 minutes ago Ceiling Lights Off 7 minutes ago Ambient Lights On 7 minutes ago Ambient Music On 17 minutes ago Clock Time 22:30 Date 2018-09-18 Sunrise / Sunset above horizon	Home Sweet Home Kitchen Temperature 21.6 °C 5 minutes ago Lights Off 10 minutes ago West Window Open 15 minutes ago North Window Open 15 minutes ago Living Room Temperature 22.6 °C 5 minutes ago Ceiling Lights Off 7 minutes ago Ambient Lights On 7 minutes ago Ambient Music On 17 minutes ago Clock Time 22:30 Date 2018-09-18 Sunrise / Sunset above horizon

Notes: each zone should be defined by a section.

2) Validation

Install the validity chrome plugin to check if your solution is HTML compliant.

<https://www.validity.org.uk/>

3) Control Version System using GIT

a) Create a github account to store all the worksheets from this course (<https://github.com>).

If using windows, download Git for windows (<https://git-scm.com/download/win>)

b) From the root node of the worksheets code (folder CAD/Worksheets), create a new local git repository:

```
git init
```

c) Add all files to the staging area and commit the changes

```
git add .  
git commit -m 'Initial commit'
```

d) At the github account create a new repository called cad-worksheets. Link your local repository with the github repository following github instructions (hint: use command "git remote add origin ...")

e) Push your initial commit to the remote repository

f) Ask help from the teacher to setup a password less workflow using a ssh key

4) One more page

a) Add to the folder "CAD/Worksheets/01---HTML5" an HTML file called "history.html" with the following content:

Raw Content	Appearance
Category State Last Changed Kitchen lights Off 23:40 2018-09-16 Kitchen lights On 20:30 2018-09-16 Weather Sunset 20:35 2018-09-16 Bell Ring 19:30 2018-09-16	Category State Last Changed Kitchen lights Off 23:40 2018-09-16 Kitchen lights On 20:30 2018-09-16 Weather Sunset 20:35 2018-09-16 Bell Ring 19:30 2018-09-16

Notes: use a table to represent the information and check if your solution is HTML compliant.

- b) Check if your solution is HTML compliant
- c) Commit and push the changes to your remote repository

5) Menu

- a) Using an unordered list add a menu to the previous pages that allows a user to jump between the two pages. Expected appearance:

Home Sweet Home

- [Dashboard](#)
- [History](#)

- b) Check if your solution is HTML compliant
- c) Commit and push the changes to your remote repository

6) Extra class

Using font-awesome icon set (<https://fontawesome.com/icons?d=gallery&q=ligh&m=free>) add some icons to the dashboard:

Home Sweet Home

- [Dashboard](#)
- [History](#)

Kitchen

🌡 Temperature 21.6 °C 5 minutes ago
💡 Lights Off 10 minutes ago
👁 West Window Open 15 minutes ago
👁 North Window Open 15 minutes ago

Living Room

🌡 Temperature 22.6 °C 5 minutes ago
💡 Ceiling Lights Off 7 minutes ago
💡 Ambient Lights On 7 minutes ago
🎵 Ambient Music On 17 minutes ago

Clock

🕒 Time 22:30
📅 Date 2018-09-18
🌅 Sunrise / Sunset above horizon