# 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 ºC 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 ºC 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.

1. **Validation**

Install the validity chrome plugin to check if your solution is HTML compliant. <https://www.validity.org.uk/>

1. **Control Version System using GIT**
   1. 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>)
   2. From the root node of the worksheets code (folder CAD/Worksheets), create a new local git repository:

git init

* 1. Add all files to the staging area and commit the changes

git add .

git commit -m 'Initial commit'

* 1. 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 …"
  2. Push your initial commit to the remote repository
  3. Ask help from the teacher to setup a password less workflow using a ssh key

1. **One more page**
   1. 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 |  |

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

* 1. Check if your solution is HTML compliant
  2. Commit and push the changes to your remote repository

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



* 1. Check if your solution is HTML compliant
  2. Commit and push the changes to your remote repository

1. **Extra class**

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

