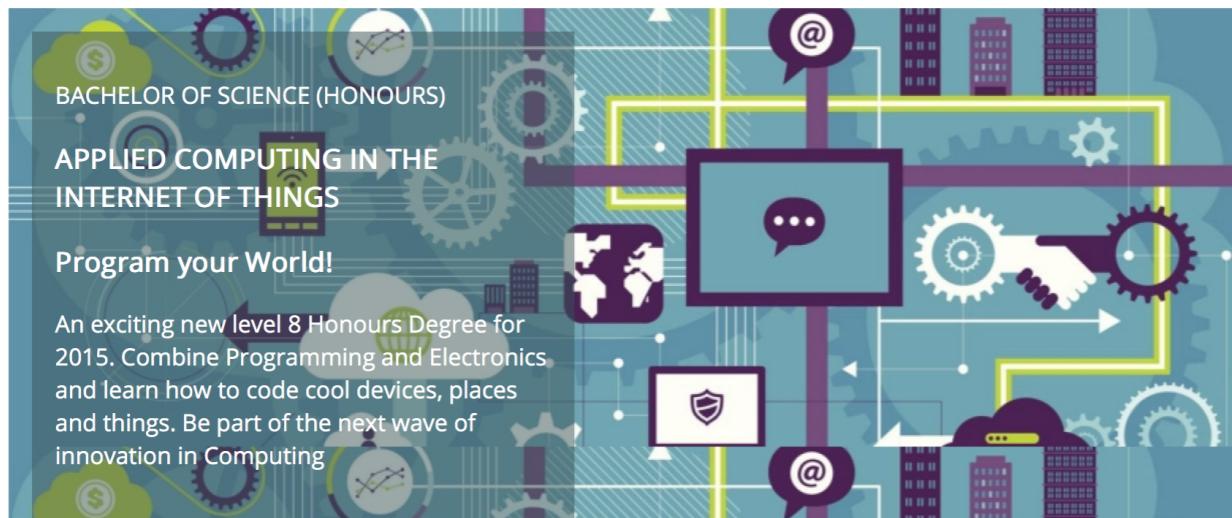


Web Site Case Study



Programming

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Networks

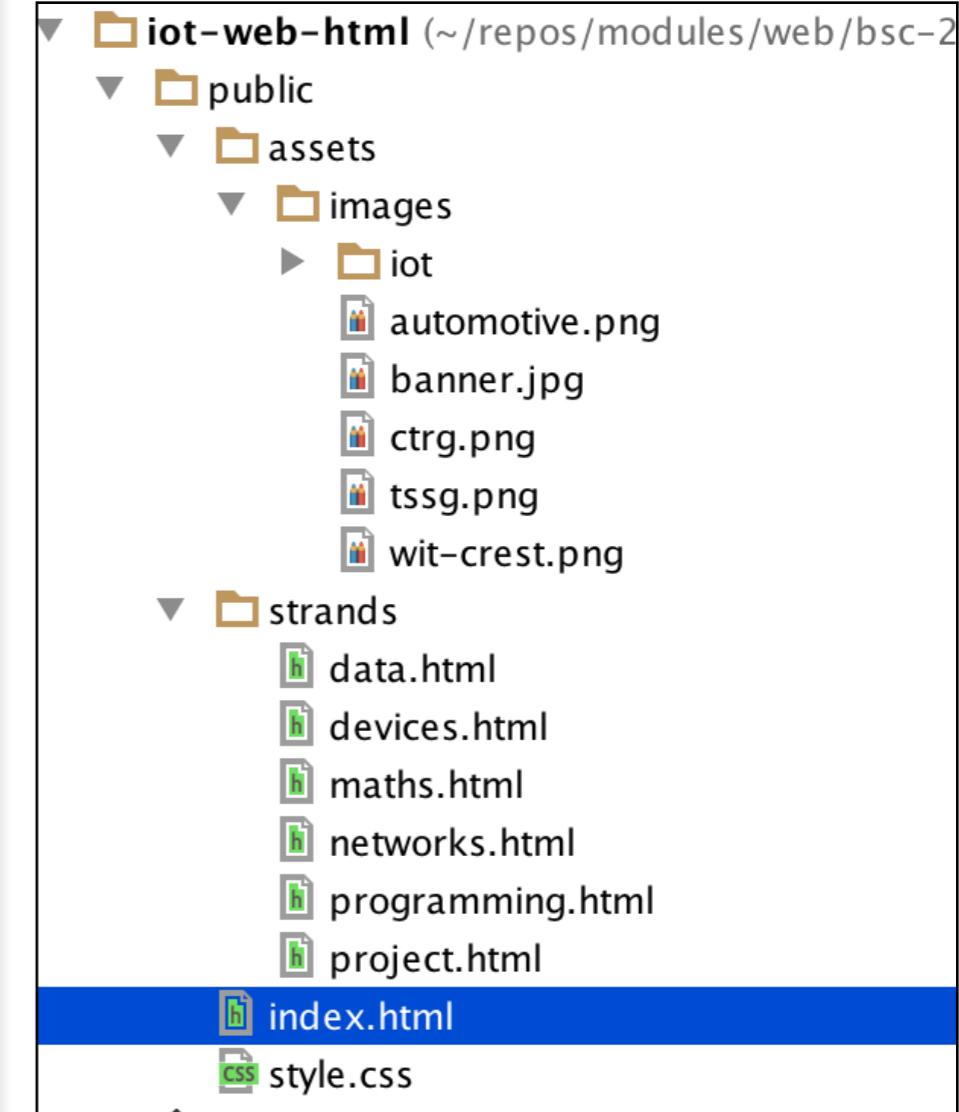
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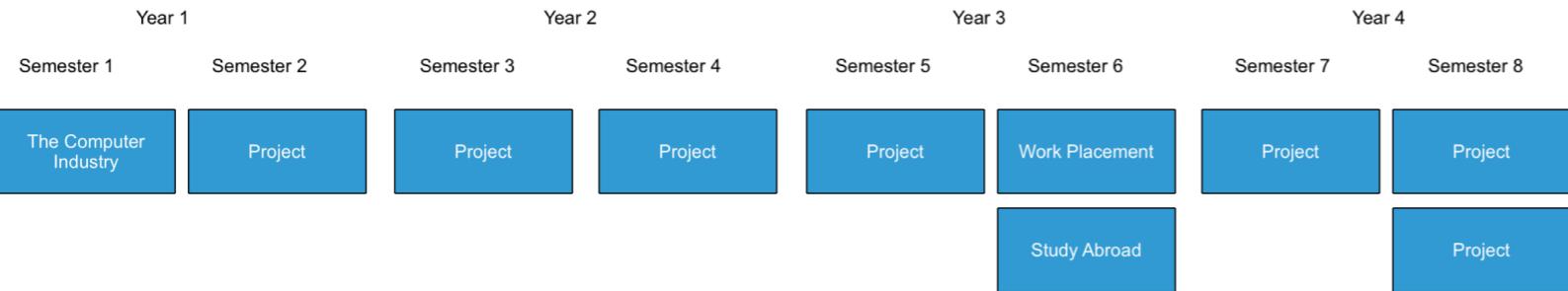
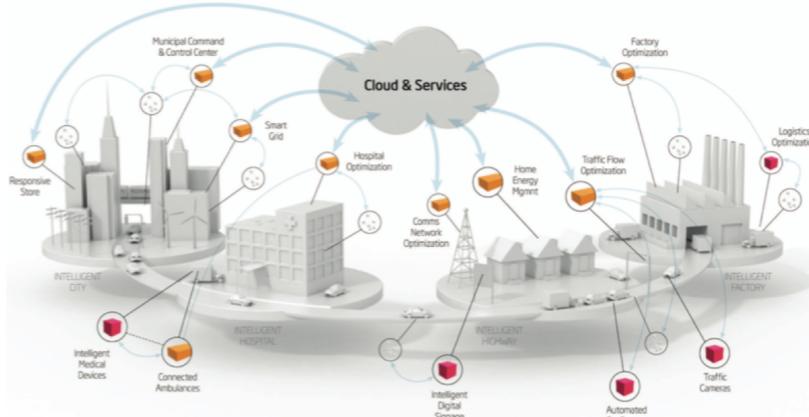
BSc (Hons) the Internet of Things



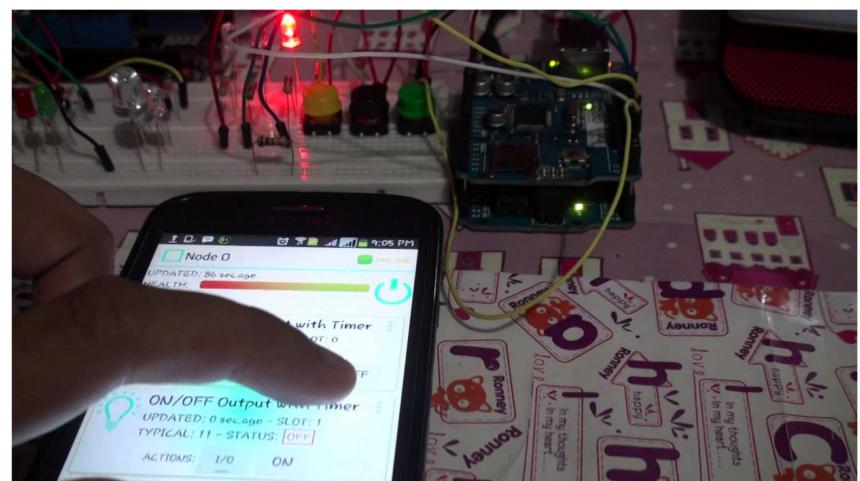
Waterford Institute of Technology
INSTITIÚID TEICNEOLAÍOCHTA PHORT LÁIRGE

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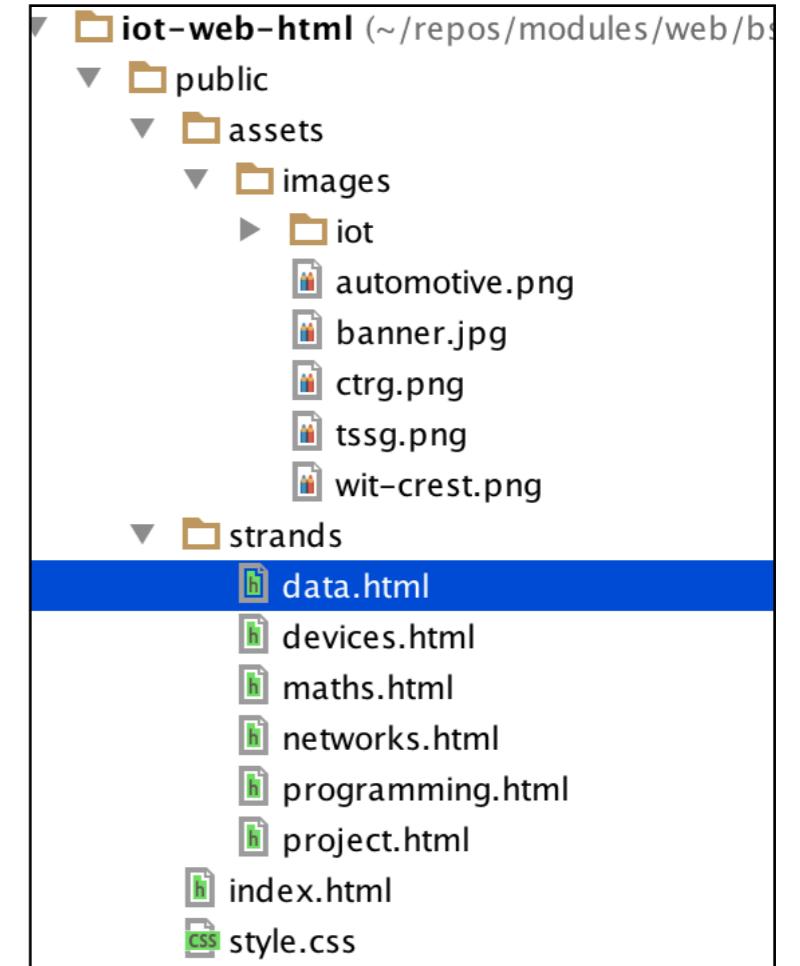


Project Learning Path



The project will be assessed via a single report and presentation each semester. The report will demonstrate an artefact of the student's choosing that integrates knowledge from two or more strands. This may be in the form of a software application, software/hardware combination, paper or combination of all of these. The 'Orthogonal' dimension must be addressed in the context of this report/presentation. The tuition team across each of the strands will stimulate project ideas and concepts for consideration by the students, who may take on board specific suggestions. Students as expected to proceed with ideas and concepts that particularly interest them individually, or collectively, in small teams.

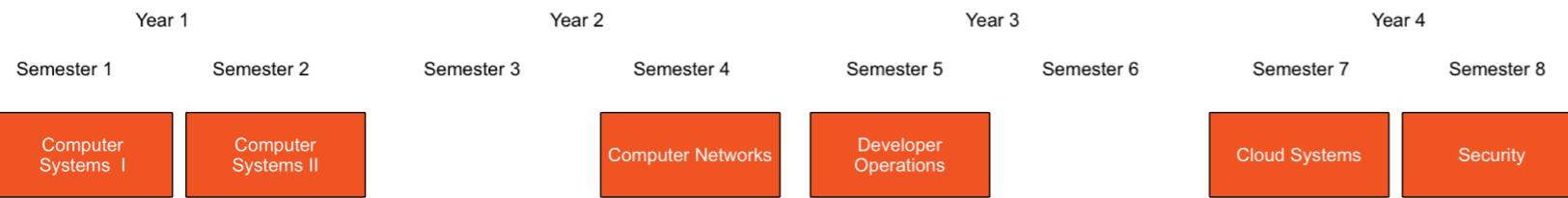
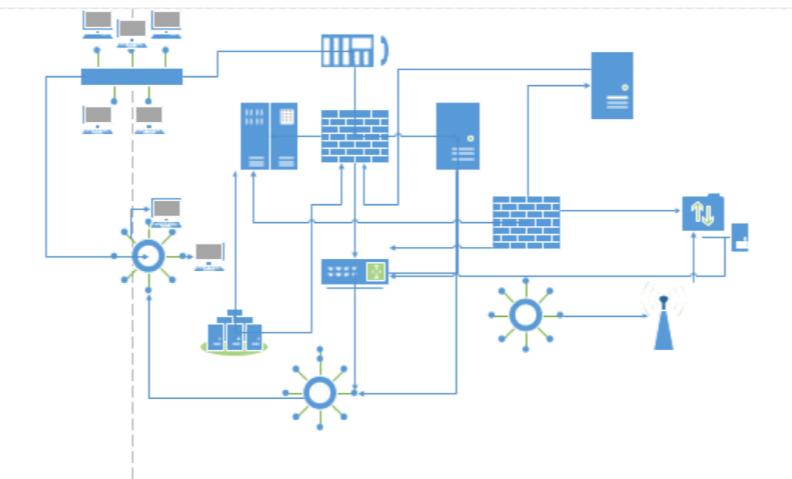
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Networks

The network, its configuration, management, and evolution, is at the heart of the IoT. Whether fixed, wireless, ad-hoc, sensor based, or hybrid, intelligent services and applications will derive much of their power from their participation in a secure and robust network. In this context, identity, privacy and trust are inherently bound into the hardware and software systems, which will embody key security principles in their operation and management. Given the magnitude and diversity of devices, network infrastructure automation and programmable infrastructure (a.k.a. infrastructure as code) are critical components of the IoT.

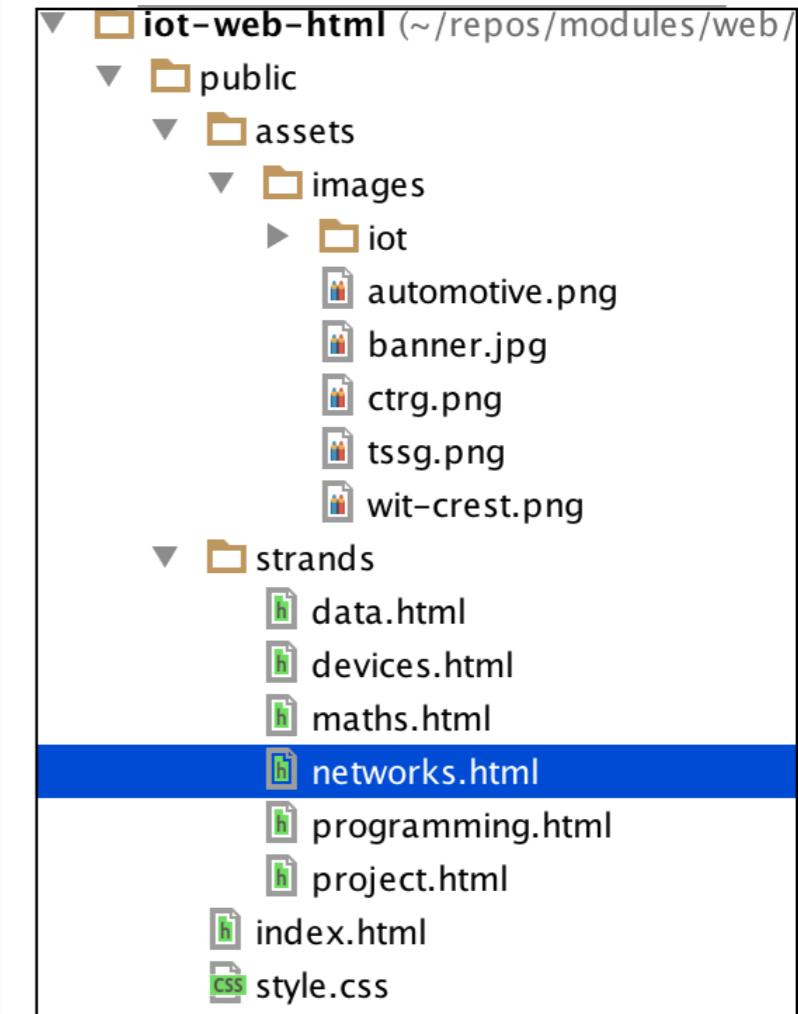


Networks Learning Path



The Networks & Cloud strand will begin with an introduction to Computer Architecture and Operating Systems in the first year. A practical approach to building and configuring systems, using single board computers such as the Raspberry Pi and Intel NUC, will be central to the student's learning environment. In the second year a more in depth coverage of networking is provided examining addressing, routing and networking protocols. Third year will see students explore the emerging area of DevOps and engage in the configuration, deployment and management of Cloud infrastructures. In the final year students will continue to work with Cloud Infrastructure technologies as well as taking a detailed look at device, system and network security.

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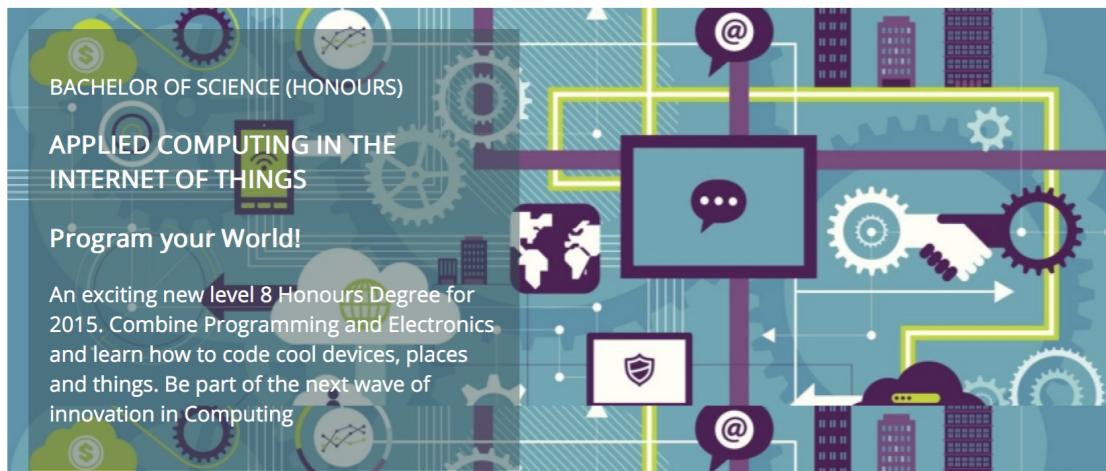


Department of Computing & Mathematics

BSc (Hons) the Internet of Things



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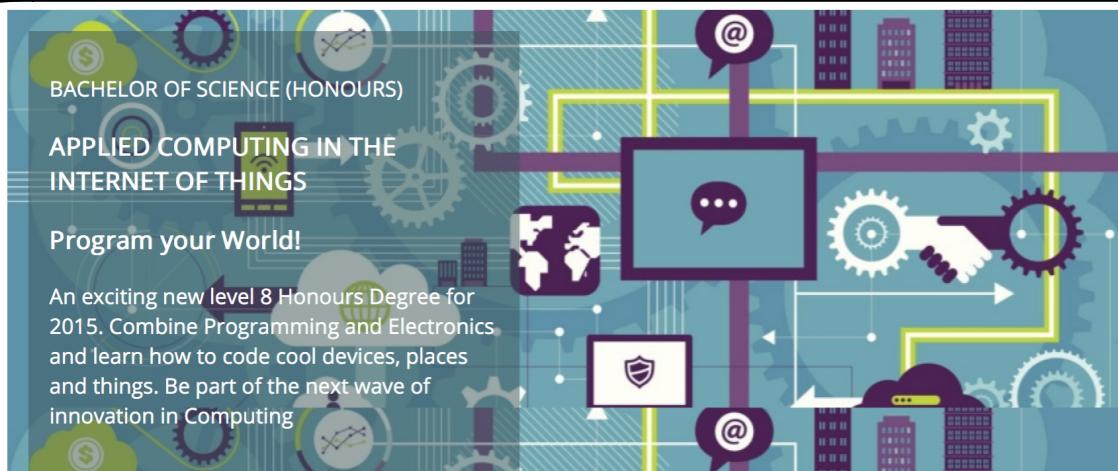
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    <h3> APPLIED COMPUTING IN THE INTERNET OF THINGS </h3>
    <h3> Program your World! </h3>
    <p> An exciting new level 8 Honours Degree for 2015. Combine Programming and Electronics and learn how to code cool devices, places and things. Be part of the next wave of innovation in Computing </p>
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  </p>
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    Department of Computing & Mathematics
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    Program your World!
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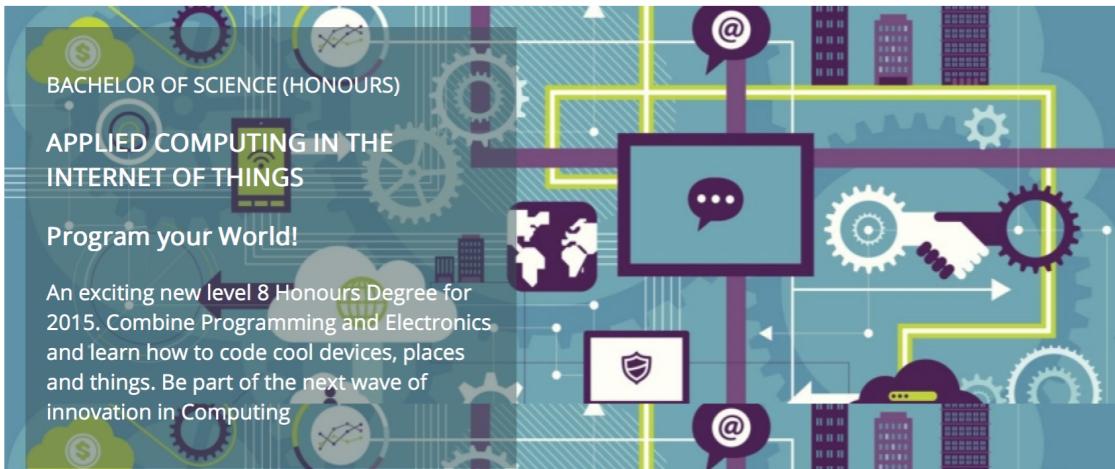
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Department of Computing & Mathematics



Waterford Institute of Technology
INSTITIÚD TEICNEOLAÍOCHA PHORT LÁIRGE

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<article id="curriculum">
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<h2><a href="strands/programming.html"> Programming </a></h2>
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    Learn a broad range of programming and problem solving skills, including exciting new platforms, software tools and languages. Use these skills to build apps for mobile, cloud and device based IoT applications. Evolve a portfolio of fascinating applications.
</p>

<h2><a href="strands/data.html"> Data Science </a></h2>
<p>
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<h2><a href="strands/devices.html"> Devices </a></h2>
<p>
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</p>
<h2><a href="strands/project.html"> Project </a></h2>
<p>
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</p>

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<p>
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    <p>
      BACHELOR OF SCIENCE (HONOURS)
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    <h3>
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  <p class="footer-social-links">
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      linkedin </a>
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<article id="curriculum">

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<h2> Programming </h2>

<p>

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</p>

</section>

<section id="col2">

<h2> Networks </h2>

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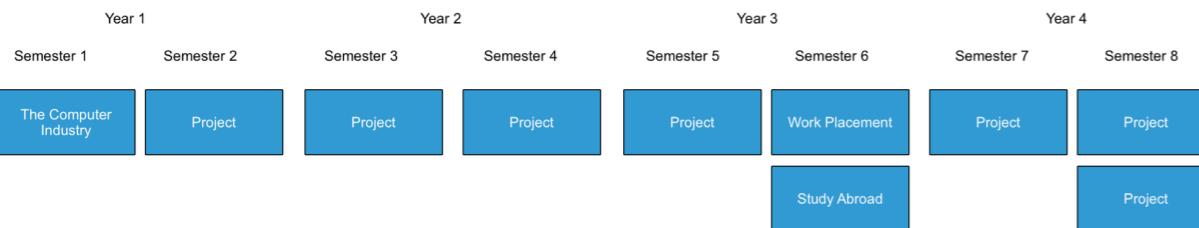
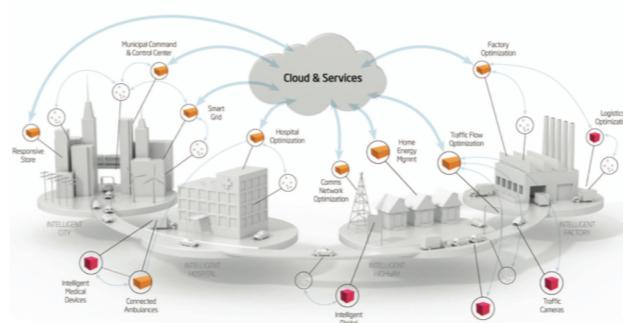
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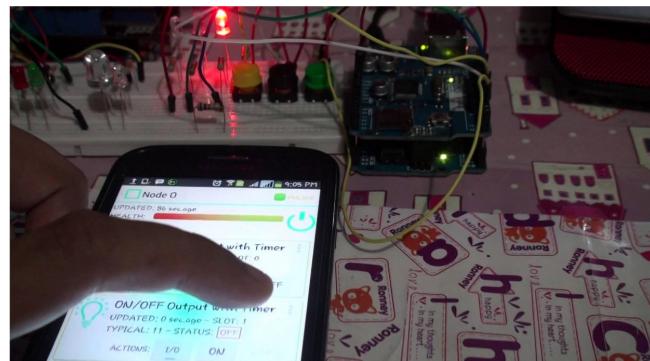


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<h3>
  <a href="..../index.html"> BSc (Hons) the Internet of Things </a>
</h3>
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</header>

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<article>
<h1> Devices </h1>
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  The IoT professional must be comfortable when dealing with the many kinds of devices and systems that are the means for the Internet to interact with the environment. Such competence must be built on an awareness of the various means with which devices and systems perform, how they can be made to perform well and how their performance attributes may be changed
</p>
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<article>
<h2> Devices Learning Path </h2>
<p>
  
  As a student on this programme, you will start to build this competence with the single board computer, the single board micro-controllers and fundamental analogue electronics, which when combined together will afford the environmental input-output capability with basic access to the network. The single board micro-controllers combined with the fundamental analogue topics will give ready access to the analogue and low-level digital world, whose key parameters of interest can be sensed and if necessary conditioned for conversion into digital form, as well as offering an effective actuation interface for analogue change. Protocol-defined communications covering all aspects from framing commands and information to the hierarchy of reliable communications, will open up the ability to convey information and commands over various media types and allow the candidates a complete education in more complex microcontroller based internet access points.
</p>
</article>

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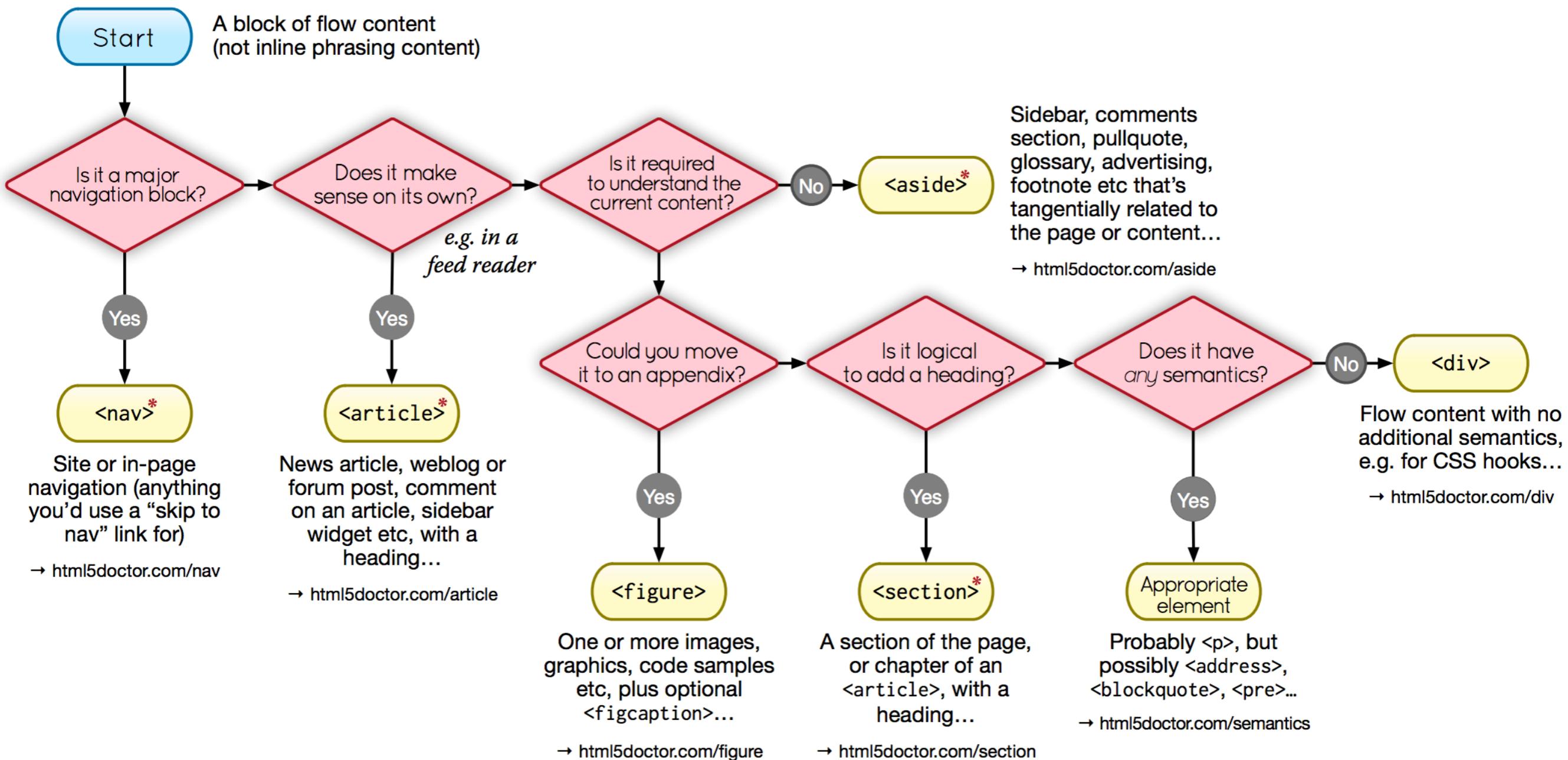
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  <a href="https://ie.linkedin.com/pub/computing-at-wit/a9/221/1b6"> linkedin </a>
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HTML5 Element Flowchart

Sectioning content elements and friends

By @riddle & @boblet
www.html5doctor.com

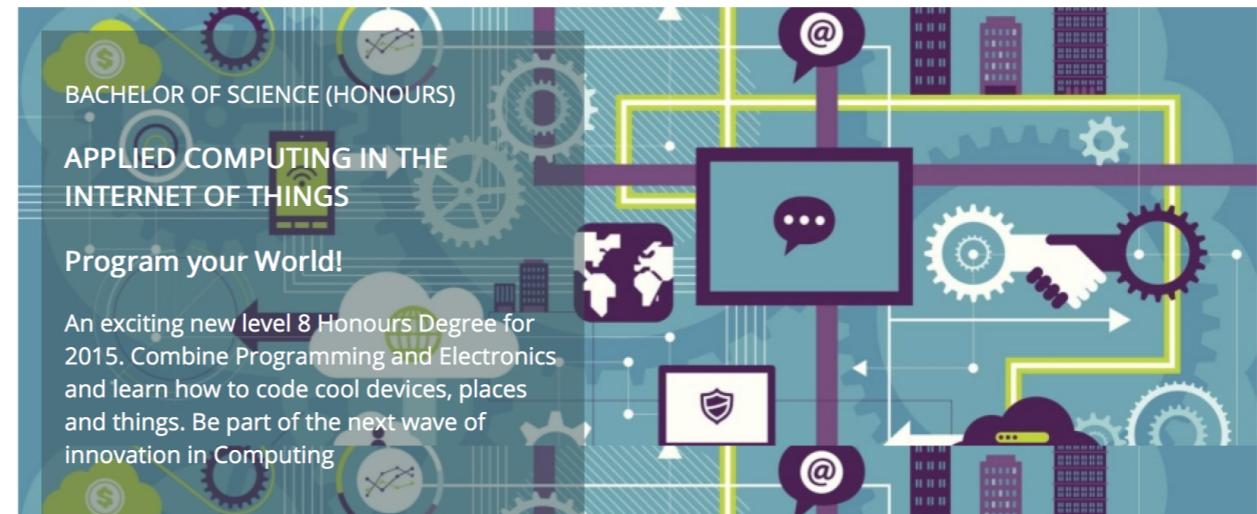


* Sectioning content element

These four elements (and their headings) are used by HTML5's outlining algorithm to make the document's outline
 → html5doctor.com/outline

2011-07-22 v1.5

For more information:
www.html5doctor.com/semantics



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  <section id="col1">...
  <section id="col2">...
</article>

<section id="sponsors">...

<footer id="footer">...

</body>
</html>
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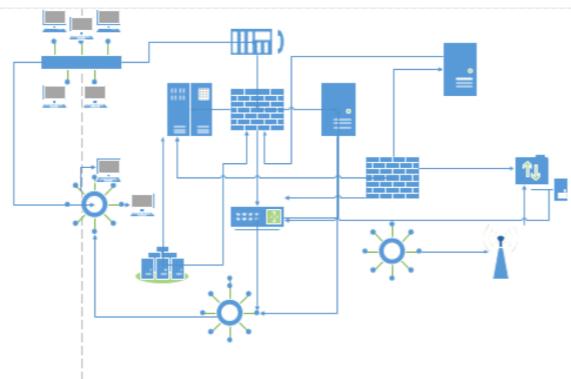
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Year 1	Year 2	Year 3	Year 4
Semester 1	Semester 2	Semester 3	Semester 4
Computer Systems I	Computer Systems II	Computer Networks	Developer Operations
Cloud Systems			Security

Networks Learning Path



The Networks & Cloud strand will begin with an introduction to Computer Architecture and Operating Systems in the first year. A practical approach to building and configuring systems, using single board computers such as the Raspberry Pi and Intel NUC, will be central to the student's learning environment. In the second year a more in depth coverage of networking is provided examining addressing, routing and networking protocols. Third year will see students explore the emerging area of DevOps and engage in the configuration, deployment and management of Cloud infrastructures. In the final year students will continue to work with Cloud Infrastructure technologies as well as taking a detailed look at device, system and network security.

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```
<!DOCTYPE html>
<html lang="en">
<head . . .>
<body>

<header . . .>

<article . . .>

<figure . . .>

<article . . .>

<footer . . .>

</body>
</html>
```

<http://www.cssfontstack.com/>

- Web Safe Fonts:
 - Pre-installed by many operating systems. While not all systems have the same fonts installed, you can use a web safe font stack to choose several fonts that look similar, and are installed on the various systems that you want to support.
- Web Fonts
 - Web fonts are not pre-installed but are downloaded by the browser while rendering the webpage. May slow down your site's load time.
- Common Pattern: If using a web font, include it first followed by similar series web safe fonts. If a browser is unable to use the web font it will fall back on the web safe fonts in the stack.

Web Safe

Sans-serif

Sans-serif

Arial

Win: 99.84% Mac: 98.74%

Arial Black

Win: 98.08% Mac: 96.22%

Arial Narrow

Win: 88.39% Mac: 94.77%

Arial Rounded MT Bold

Win: 59.53% Mac: 95.14%

Avant Garde

Win: 0% Mac: 1.08%

Calibri

Win: 83.41% Mac: 38.74%

Candara

Win: 83.08% Mac: 34.41%

Century Gothic

Win: 87.62% Mac: 53.15%

Franklin Gothic Medium

Win: 99.18% Mac: 2.1%

Serif

Monospaced

Fantasy

Script

Fantasy

COPPERPLATE

Win: 66.87% Mac: 92.61%

Serif

Big Caslon

Win: 0% Mac: 92.61%

Bodoni MT

Win: 55.81% Mac: 0%

Book Antiqua

Win: 86.09% Mac: 49.01%

Calisto MT

Win: 58.43% Mac: 46.31%

Cambria

Win: 83.35% Mac: 35.32%

Didot

Win: 0% Mac: 93.51%

Garamond

Win: 86.47% Mac: 49.91%

Georgia

Win: 99.4% Mac: 97.48%

Goudy Old Style

Win: 58.11% Mac: 47.57%

Monospaced

Consolas

Win: 82.97% Mac: 34.77%

Courier New

Win: 99.73% Mac: 95.68%

Lucida Console

Win: 99.18% Mac: 0%

Lucida Sans Typewriter

Win: 74.81% Mac: 99.64%

Monaco

Win: 2.74% Mac: 99.82%

Andale Mono

Win: 4.16% Mac: 94.59%

Script

Brush Script MT

Win: 59.64% Mac: 90.99%

FontHelvetica Full Stack **Size****Weight****Style****Variant**

Line Height

Apply To

Header

**Save Heading Setting****HTML:****CSS:**

```
h1 {
```

```
    font-family: 'Helvetica Neue', Helvetica, Arial, sans-serif;
    font-size: 24px;
    font-style: normal;
    font-variant: normal;
    font-weight: 500;
    line-height: 26.4px;
```

```
}
```

```
h3 {
```

```
    font-family: 'Helvetica Neue', Helvetica, Arial, sans-serif;
    font-size: 14px;
    font-style: normal;
    font-variant: normal;
    font-weight: 500;
    line-height: 15.4px;
```

```
}
```

```
p {
```

```
    font-family: 'Helvetica Neue', Helvetica, Arial, sans-serif;
    font-size: 14px;
    font-style: normal;
    font-variant: normal;
    font-weight: 400;
    line-height: 20px;
```

```
}
```

E.g: Helvetica

Your headline is in Helvetica

This is a sub heading in Helvetica.

This paragraph is in Helvetica. Keep reading for how to use the buttons to the left. Change your settings, and choose what section you want the font to apply to. Once you are pleased with the settings for that section you can click save. Your selections will remain as you look for another font for another section of this preview.

Another sub heading in Helvetica.

The setting for a paragraph continues down here. There is a blockquote next to it. You may want to make that stand out. The setting for a paragraph continues down here. There is a blockquote next to it. You may want to make that stand out. The setting for a paragraph continues down here. There is a blockquote next to it. You may want to make that stand out.

```
/* This text is in Helvetica */
.class {
    font-family: Helvetica Neue,Helvetica,Arial,sans-serif;
}
```

**Make other
Helvetica text
stand out!**

<http://www.cssfontstack.com/Helvetica>

Web

Sans-serif

Serif

Cursive

Architects Daughter

Asset

Atomic Age

Aubrey

Bigshot One

Black Ops One

BUTCHERMAN CAPS

Cabin Sketch

Cedarville Cursive

changaOne

Chewy

Chicle

Serif

Adamina

Alice

Alike

Alike Angular

Andada

Arapey

Artifika

Arvo

Bentham

Bevan

Bitter

Brawler

C

Sans-serif

Abel

Aclonica

Actor

Aldrich

Allerta

Allerta Stencil

Amaranth

Andika

Anonymous Pro

Antic

Anton

Arimo

Bowlby One

BOWLBY ONE SC

Buda

Cabin

Cabin Condensed

Cagliostro

Candal

Cantarell

Carme

Carter One

Chivo

Coda Caption

Calligraffiti

Cherry Cream Sc

Coda

HTML:

```
<link rel="stylesheet" type="text/css" href="//fonts.googleapis.com/css?family=Open+Sans" />
```

CSS:

```
h1 {  
    font-family: 'Open Sans';  
    font-size: 24px;  
    font-style: normal;  
    font-variant: normal;  
    font-weight: 500;  
    line-height: 26.4px;  
}  
  
h3 {  
    font-family: 'Open Sans';  
    font-size: 14px;  
    font-style: normal;  
    font-variant: normal;  
    font-weight: 500;  
    line-height: 15.4px;  
}  
  
p {  
    font-family: 'Open Sans';  
    font-size: 14px;  
    font-style: normal;  
    font-variant: normal;  
    font-weight: 400;  
    line-height: 20px;  
}
```

Your headline is in Open Sans

This is a sub heading in Open Sans.

This paragraph is in Open Sans. Keep reading for how to use the buttons to the left. Change your settings, and choose what section you want the font to apply to. Once you are pleased with the settings for that section you can click save. Your selections will remain as you look for another font for another section of this preview.

Another sub heading in Open Sans.

The setting for a paragraph continues down here. There is a blockquote next to it. You may want to make that stand out. The setting for a paragraph continues down here. There is a blockquote next to it. You may want to make that stand out. The setting for a paragraph continues down here. There is a blockquote next to it. You may want to make that stand out.

Make other Open Sans text stand out!

```
/* This text is in Open Sans */  
.class {  
    font-family: Open Sans;  
}
```

Weight

- Select One:
 - Normal
 - Bold
 - Bolder
 - Lighter

Style

- Select One:
 - Normal
 - Italic
 - Oblique

Variant

- Select One:
 - Normal
 - Small Caps

```
h1 {
```

```
  font-family: 'Open Sans';
  font-size: 24px;
  font-style: normal;
  font-variant: normal;
  font-weight: 500;
  line-height: 26.4px;
```

```
}
```

Open Sans

https://en.wikipedia.org/wiki/Open_Sans

From Wikipedia, the free encyclopedia

Open Sans is a [sans-serif](#) typeface designed by [Steve Matteson](#) and commissioned by [Google](#). According to Google, it was developed with an "upright stress, open forms and a neutral, yet friendly appearance" and is "optimized for legibility across print, web, and mobile interfaces."^[3] Its design is almost identical to that of [Droid Sans](#), with the exception of wider characters and the inclusion of italic variants. Whereas Droid Sans is used primarily in the user interfaces of some [Android phones](#), Open Sans is used in some of Google's web pages as well as its print and web advertisements.

Open Sans is available in a large number of variants for a font with an open license. There are 5 variants for weight (300 Light, 400 Normal, Semi-Bold 600, Bold 700 and Extra Bold 800) and each one has an italic version, totaling 10 variants. There is also a separate font called Open Sans Condensed with 3 width variations.^[4]

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Open Sans

Open Sans

Aa Ee Rr

Aa Ee Rr

a

Sycamore

a b c d e f g h i j k l m
n o p q r s t u v w x y z

0123456789

Category [Sans-serif](#)

Classification Humanist

Designer(s) Steve Matteson

Foundry Ascender Corporation

Date created 2010^[1]

Date released 2011^[2]

License Apache License 2.0

Website www.google.com/fonts/specimen/Open+Sans ↗