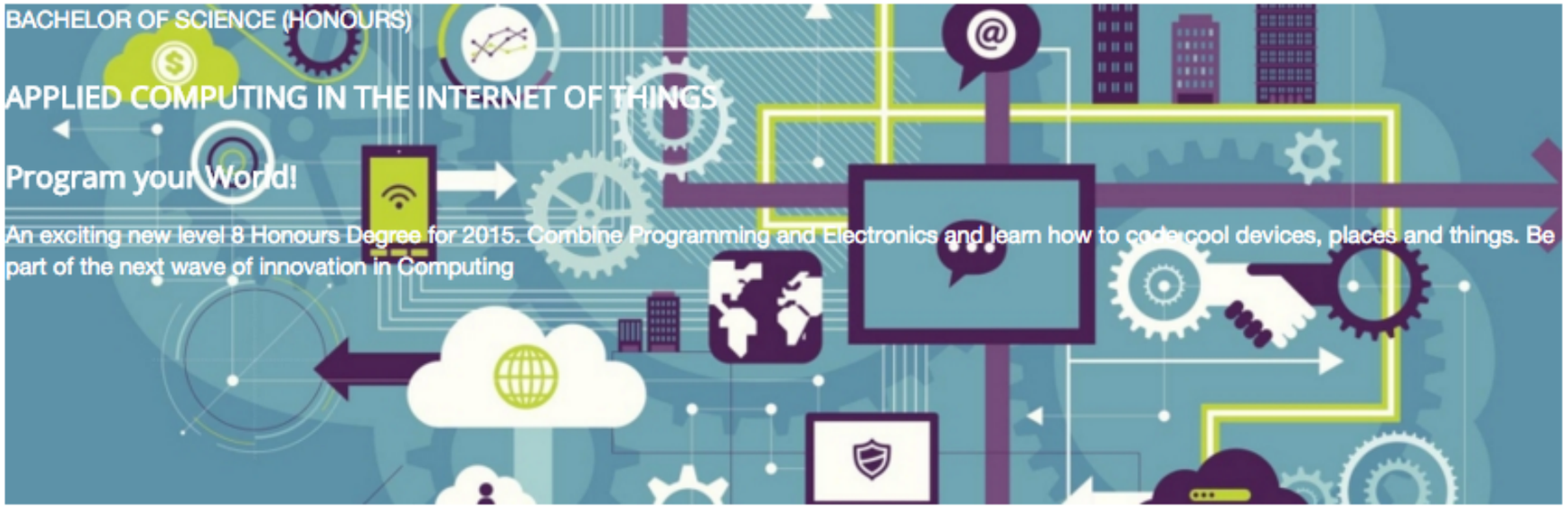
Semantic-UI Part IV

Department of Computing & Mathematics

Waterford Institute *of* Technology
INSTITIÚID TEICNEOLAÍOCHTA PHORT LÁIRGE

BSc (Hons) the Internet of Things



Programming

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 porfolio of facinating aplications.

Data Science

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Devices

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Networks

This strand will explore modern networks and cloud technology. Be able to configure, network and manage all categories of computer systems from simple controlers to single board board computers, mobiles and full workstations.

Project

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Mathematics

Introduce foundation concepts for many of the more applied concepts in the other Strands. Learn mathematical techniques in a modern context and apply core principles in new an interesting ways.

Supported by leading edge research at...

TSSG

ctrg
convergent technologies research group

AUTOMOTIVE CONTROL GROUP
Software Engineering for the Connected Car

Department of Computing & Mathematics

BSc (Hons) in the Internet of Things

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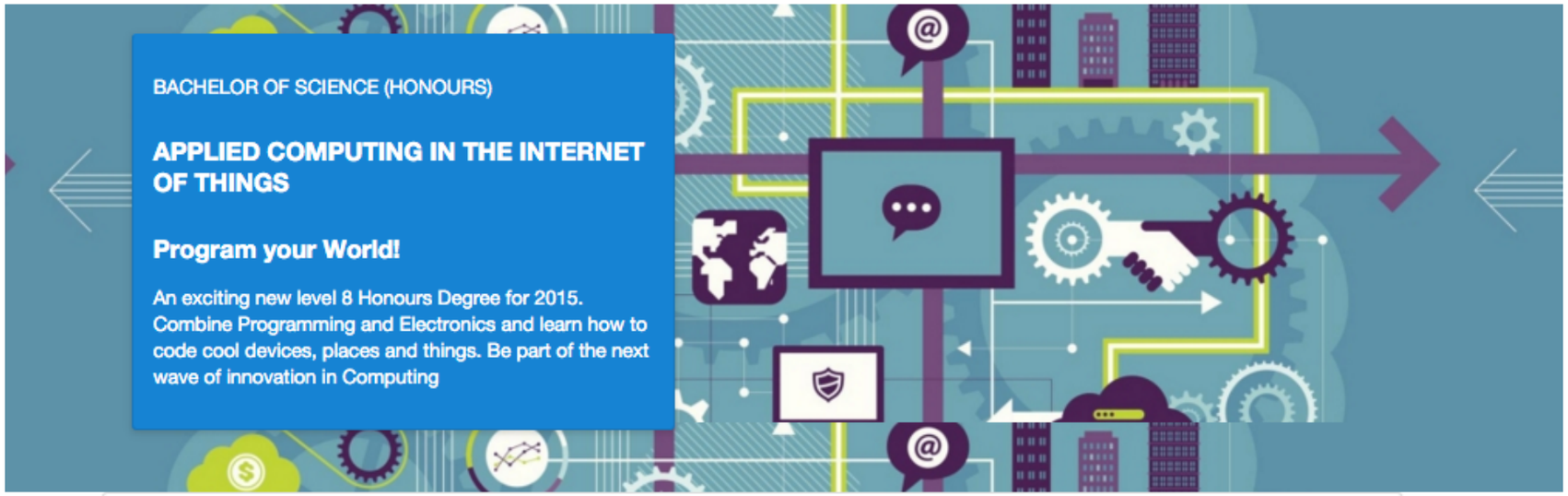

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Icons

http://semantic-ui.com/elements/icon.html

Alarm

Alarm Slash

Alarm Outline

Alarm Slash Outline

At

Browser

Bug

Calendar Outline

Cale

Code

Comment

Comments

Com
Ou

Copyright

Dashboard

Dropdown

Externa

```
<i class="alarm icon"></i>
<i class="alarm slash icon"></i>
<i class="alarm outline icon"></i>
<i class="alarm slash outline icon"></i>
<i class="at icon"></i>
<i class="browser icon"></i>
<i class="bug icon"></i>
<i class="calendar outline icon"></i>
<i class="calendar icon"></i>
<i class="cloud icon"></i>
<i class="comment icon"></i>
<i class="comments icon"></i>
<i class="comment outline icon"></i>
<i class="comments outline icon"></i>
<i class="copyright icon"></i>
<i class="dashboard icon"></i>
<i class="dropdown icon"></i>
<i class="external square icon"></i>
<i class="external icon"></i>
```

Icons

facebook twitter linkedin

```
<footer class="ui segment">
  <p class="footer-social-links">
    <a href="http://www.facebook.com/witcomp"> facebook </a>
    <a href="http://twitter.com/ComputingAtWIT"> twitter </a>
    <a href="https://ie.linkedin.com/pub/computing-at-wit/a9/221/1b6"> linkedin </a>
  </p>
</footer>
```

```
<footer class="ui center aligned segment">
  <a href="http://www.facebook.com/witcomp"> <i class="large facebook icon"></i> </a>
  <a href="href='http://twitter.com/ComputingAtWIT"> <i class="large twitter icon"></i> </a>
  <a href="href='http://www.linkedin.com/pub/computing-at-wit">  <i class="large linkedin icon"></i> </a>
</footer>
```

Colours

http://semantic-ui.com/usage/theming.html

site/globals/site.variables — less

```
@primaryColor    : @pink;
@secondaryColor  : @grey;
@red             : #B03060;
@orange          : #FE9A76;
@yellow          : #FFD700;
@olive           : #32CD32;
@green           : #016936;
@teal            : #008080;
@blue            : #0E6EB8;
@violet          : #EE82EE;
@purple          : #B413EC;
@pink            : #FF1493;
@brown           : #A52A2A;
@grey            : #A0A0A0;
@black           : #000000;
```

Primary Button Secondary Button

ALL COLORS

Red Orange Yellow Olive Green Teal Blue

Violet Purple Pink Brown Grey Black

```
<article class="red column">
  <h2> <a href="strands/programming.html"> Programming </a> </h2>
  <p>
    Learn a broad range of programming and problem solving skills, including exciting new p
    languages. Use these skills to build apps for mobile, cloud and device based IoT applic
    facinating aplications.
  </p>
</article>
```

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Supported by leading edge research at

```
<section class="ui three column row">

  <article class="red column">
    ...
  </article>

  <article class="orange column">
    ...
  </article>

  <article class="yellow column">
    ...
  </article>

</section>

<section class="ui three column row">

  <article class="olive column">
    ...
  </article>

  <article class="green column">
    ...
  </article>

  <article
    ...
  </article>

</section>
```

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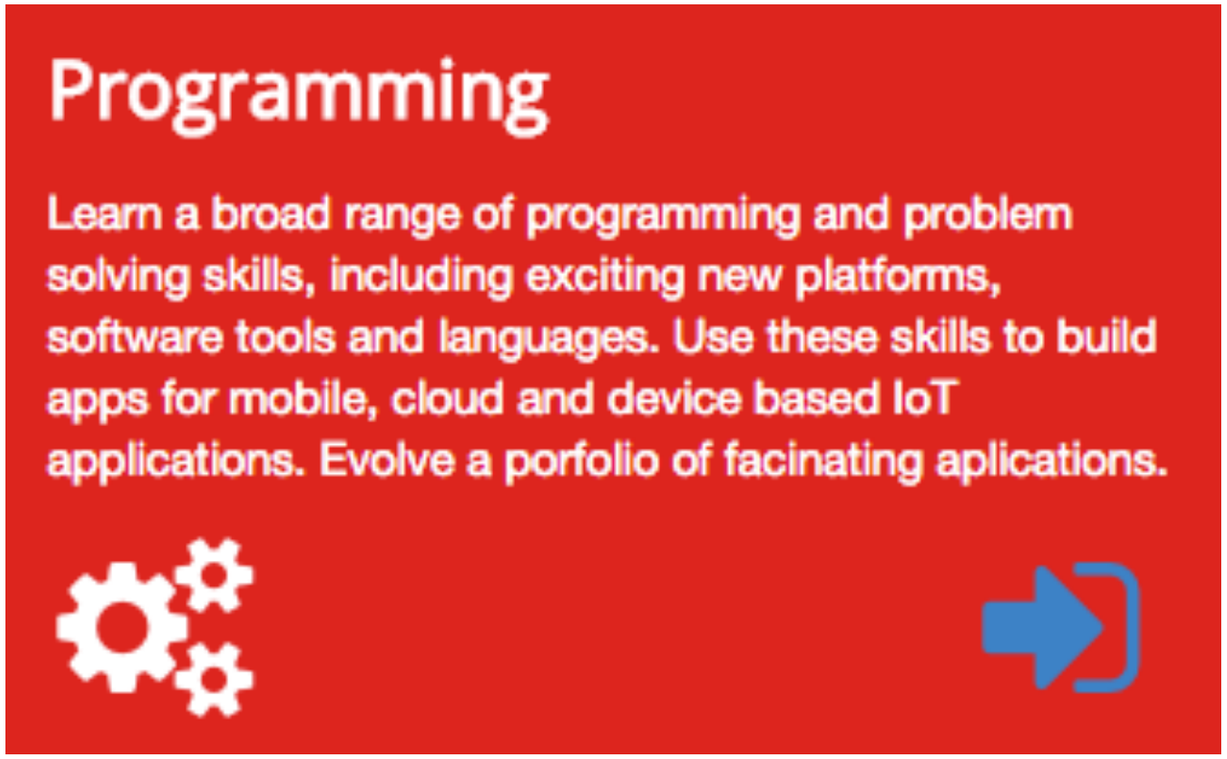
Learn a broad range of programming and problem solving skills, including exciting new platforms, software tools and languages. Use these skills to build apps for mobile, cloud and device based IoT applications. Evolve a porfolio of facinating aplications.

```
<i class="huge settings icon"></i>
<i class="huge bar chart icon"></i>
<i class="huge space shuttle icon"></i>
<i class="huge cloud upload icon"></i>
<i class="huge lab icon"></i>
<i class="huge wizard icon"></i>
```

```
<article class="red column">
  <h2> Programming </h2>
  <p>
    Learn a broad range of programming and problem solving skills
  </p>
  <div class="ui two column grid">
    <div class="left aligned column">
      <i class="huge settings icon"></i>
    </div>
    <div class="right aligned column">
      <a href="strands/programming.html" class="strandlink">
        <i class="huge sign in icon"></i>
      </a>
    </div>
  </div>
</article>
```



- Encapsulate icons in 2 column grid
  - Left align first icon
  - Right align second icon

Raised Segment

Raised

A segment may be formatted to raise above the page.

Example

Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Vestibulum tortor quam, feugiat vitae, ultricies eget, tempor sit amet, ante. Donec eu libero sit amet quam egestas semper. Aenean ultricies mi vitae est. Mauris placerat eleifend leo.

```
<div class="ui raised segment">
  <p>Pellentesque habitant morbi tristique senectus et netus et
malesuada fames ac turpis egestas. Vestibulum tortor quam, feugiat
vitae, ultricies eget, tempor sit amet, ante. Donec eu libero sit amet
quam egestas semper. Aenean ultricies mi vitae est. Mauris placerat
eleifend leo.</p>
</div>
```

Padded Segment

Padded

A segment can increase its padding

Example

```
<div class="ui padded segment">
  <p></p>
</div>
```

Stacked Segment

Stacked

A segment can be formatted to show it contains multiple pages

Example

Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Vestibulum tortor quam, feugiat vitae, ultricies eget, tempor sit amet, ante. Donec eu libero sit amet quam egestas semper. Aenean ultricies mi vitae est. Mauris placerat eleifend leo.

```
<div class="ui stacked segment">
  <p>Pellentesque habitant morbi tristique senectus et netus et malesuada
fames ac turpis egestas. Vestibulum tortor quam, feugiat vitae, ultricies
eget, tempor sit amet, ante. Donec eu libero sit amet quam egestas semper.
Aenean ultricies mi vitae est. Mauris placerat eleifend leo.</p>
</div>
```

```
<section class="ui three column padded stacked grid segment">
```

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BSc (Hons) the Internet of Things

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Programming

The IoT requires a new breed of software skills, with an emphasis on flexible, reactive, and highly networked applications and services. This software runs on a diverse range of systems, is frequently connected to cloudservices, and may be capable of leveraging large data sets to deliver inferences and decision support in an informedmanner. The software is designed and implemented using agile techniques, with an emphasis on test driven developmentand quality user experiences..

Year 1 | Year 2 | Year

Semester 1 | Semester 2 | Semester 3 | Semester 4 | Semester 5

Programming Fundamentals I

Programming Fundamentals II

Web Development I

Web Development II

Programming Learning Path

The Data Science strand will begin with the fundamentals of relational databases used to store structured transac
and descriptive analysis required to predict future events and to identify relationships in data. In the third year the
managing unstructured data) databases and data warehouses (supporting consistent views of a domain, and as a
the IoT context the importance of dealing with large volumes of data in terms of storage and analytics is great. Th
appropriate data solution with a complete understanding and knowledge of the available options. The students w

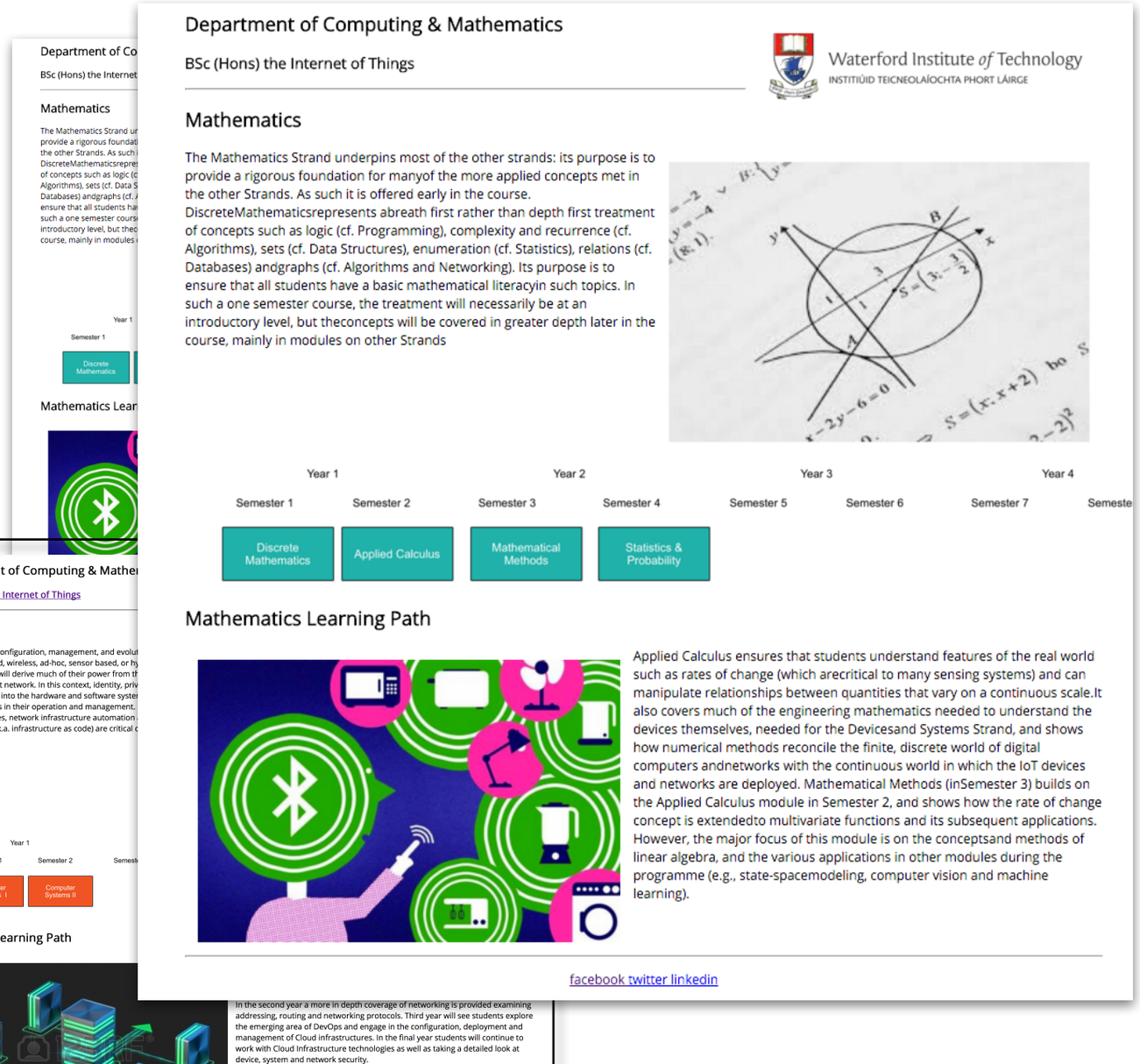
- Images set to default size
- Text not positioned correctly

```
<article>
  <h1> Programming </h1>
  <p>
    <img class="strand-right-img" src="../assets/images/iot/programming/pr
    The IoT requires a new breed of software skills, with an emphasis on f
  </p>
</article>

<figure>
  <img class="strand-timeline-img" src="../assets/images/iot/timeline.png"
  <img class="strand-modules-double-img" src="../assets/images/iot/programm
</figure>

<article>
  <h2> Programming Learning Path </h2>
  <p>
    The Data Science strand will begin with the fundamentals of relational
  </p>
</article>
```

Strand Pages

- Make the segment a ‘grid’
- Rework each strand page to row/column structure
- + use ‘ui image’ for consistent image sizing

```
├── index.html
├── strands
│   ├── data.html
│   ├── devices.html
│   ├── maths.html
│   ├── networks.html
│   ├── programming.html
│   └── project.html
└── style.css
```



programming.html

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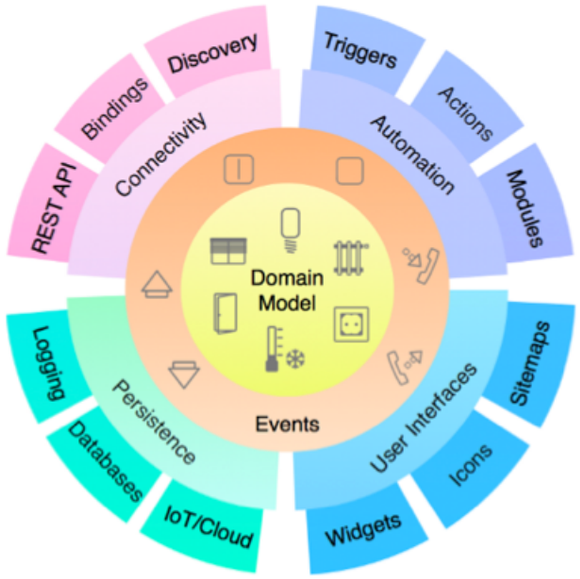
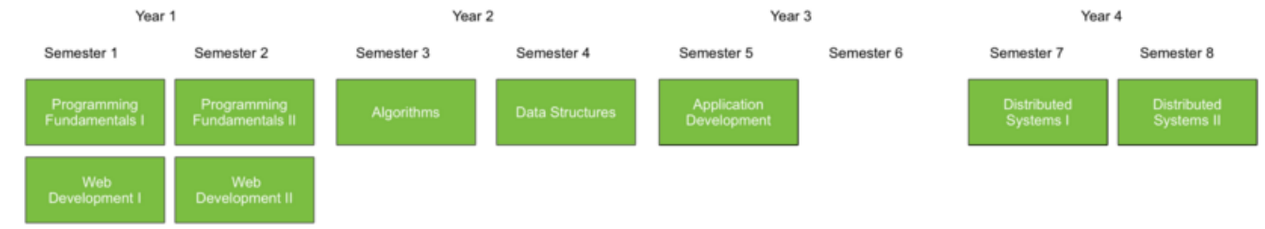




Learning Paths

The Data Science strand will begin with the fundamentals of relational databases used to store structured transactional business data. This data holds the basis for reporting and descriptive analysis required to predictfuture events and to identify relationships in data. In the third year the students will extend their knowledge to NoSQL (especially for managing unstructured data) databases and data warehouses (supporting consistent views of a domain, and as a springboard for statistics and machine learning analyses). In the IoT context the importance of dealing with large volumes of data in terms of storage and analytics is great. The skills they learn will allow them to design and implement the appropriate data solution with a complete understanding and knowledge of the available options. The students will learn about the trade-offs in terms of consistency, availability and partitioning. In the fourth year students will learn and implement the skills of data mining covering classification, prediction and clustering, applied to data that had been managed using methods and technologies they have learned about in previous years.

ui grid

- Each grid is 16 units
- “eight wide” consumes half the available width
- ‘sixteen wide’ consumes full available width

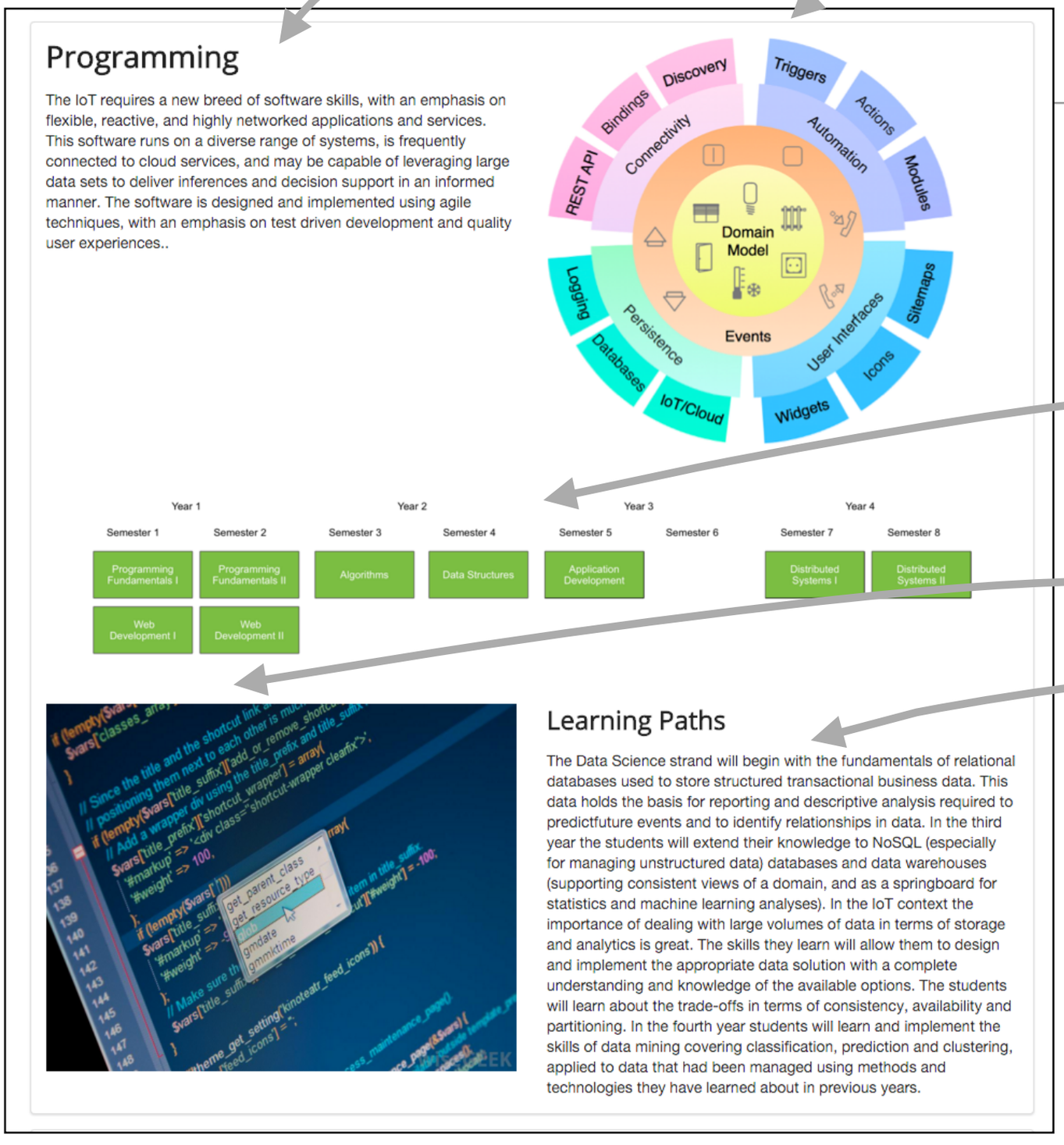
```
<article class="eight wide column">
  <h1> Programming </h1>
  <p>
    The IoT requires a new breed of software skills, with an emphasis on f
  </p>
</article>

<aside class="eight wide column">
  <img class="ui image" src="../assets/images/iot/programming/programming-
 </aside>

<figure class="sixteen wide column">
  <img class="ui image" src="../assets/images/iot/timeline.png">
  <img class="ui image" src="../assets/images/iot/programming/programming-
</figure>

<aside class="eight wide column">
  <img class="ui image" src="../assets/images/iot/programming/programming-
</aside>

<section class="eight wide column">
  <h2> Learning Paths </h2>
  <p>
    The Data Science strand will begin with the fundamentals of relational
  </p>
</section>
```




```
<article class="eight wide column">
  <h1> Programming </h1>
  <p>
    The IoT requires a new breed of software ski
  </p>
</article>

<aside class="eight wide column">
  <img class="ui image" src="../assets/images/io
 </aside>

<figure class="sixteen wide column">
  <img class="ui image" src="../assets/images/io
  <img class="ui image" src="../assets/images/io
</figure>

<aside class="eight wide column">
  <img class="ui image" src="../assets/images/io
</aside>

<section class="eight wide column">
  <h2> Learning Paths </h2>
  <p>
    The Data Science strand will begin with the
  </p>
</section>
```

- We could have used ‘ui row’ as well, but just using cols will also suffice

Banner Segment -current

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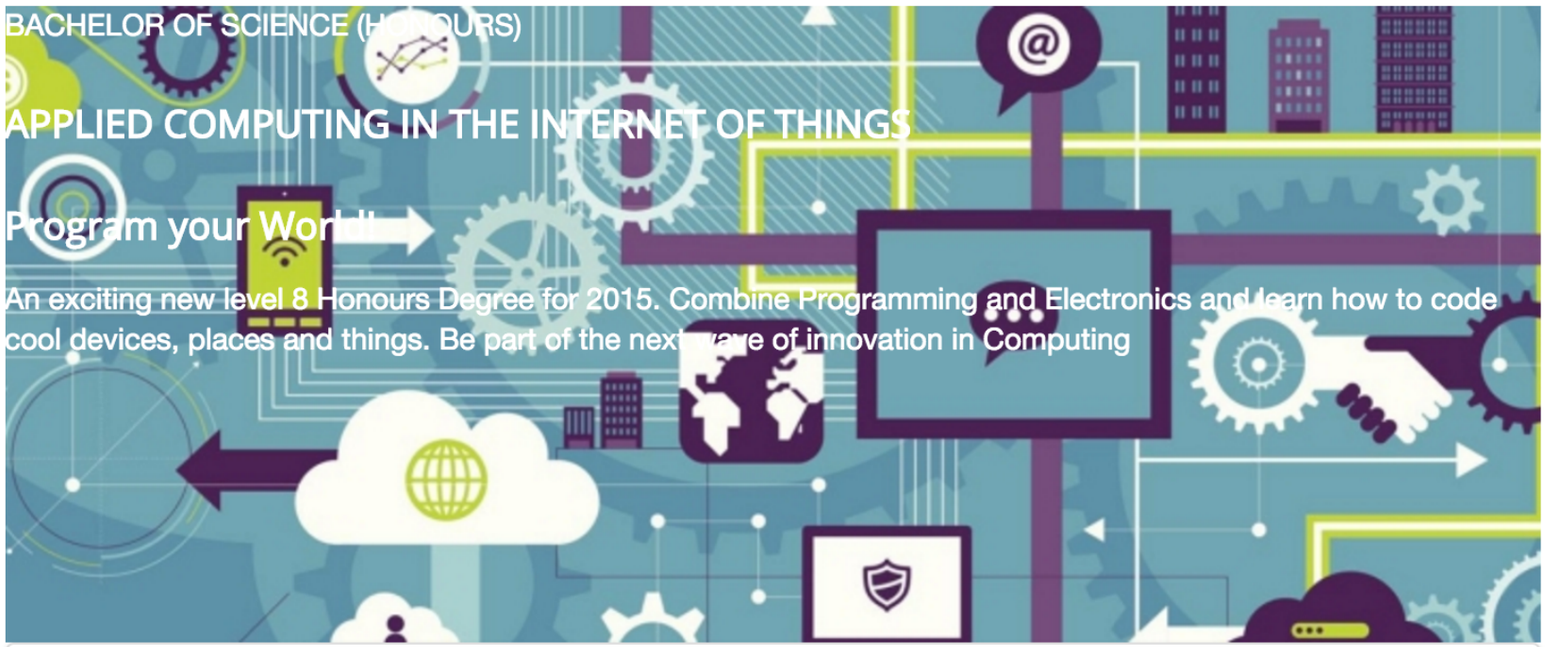
BSc (Hons) the Internet of Things



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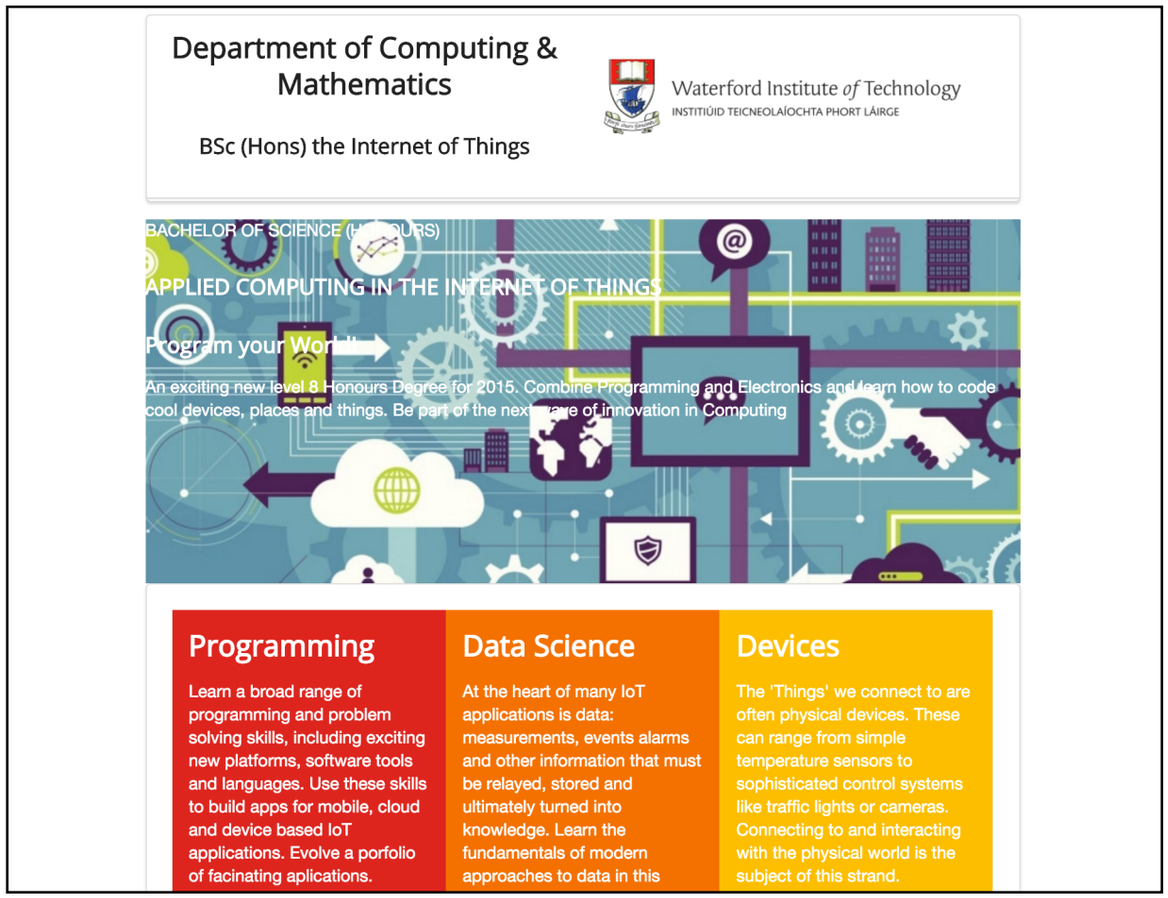
background image

```
.banner {
  background: url("/assets/images/banner.jpg")  top center;
  background-position: top center;
  color: white;
  height:300px;
}
```

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <link rel="stylesheet" type="text/css" href="http://fonts.googleapis.com
  <link rel="stylesheet" href="assets/css/semantic.css">
  <link type="text/css" rel="stylesheet" href="style.css" media="screen"/>
  <title>BSc in the Internet of Things</title>
</head>
<body>
<section class="ui container">
```

current page content

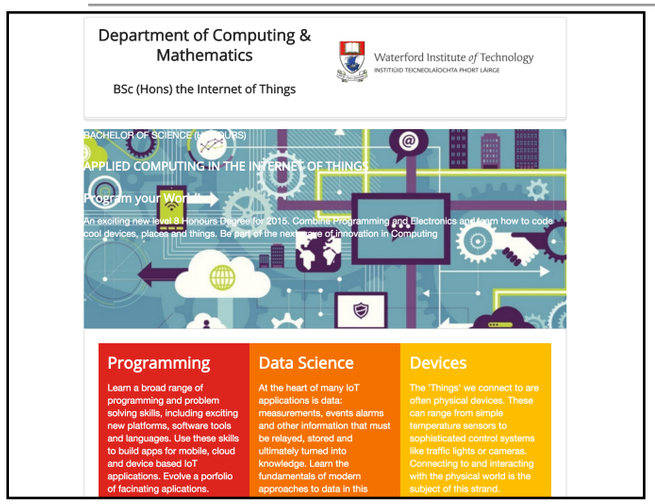
```
</section>
</body>
</html>
```

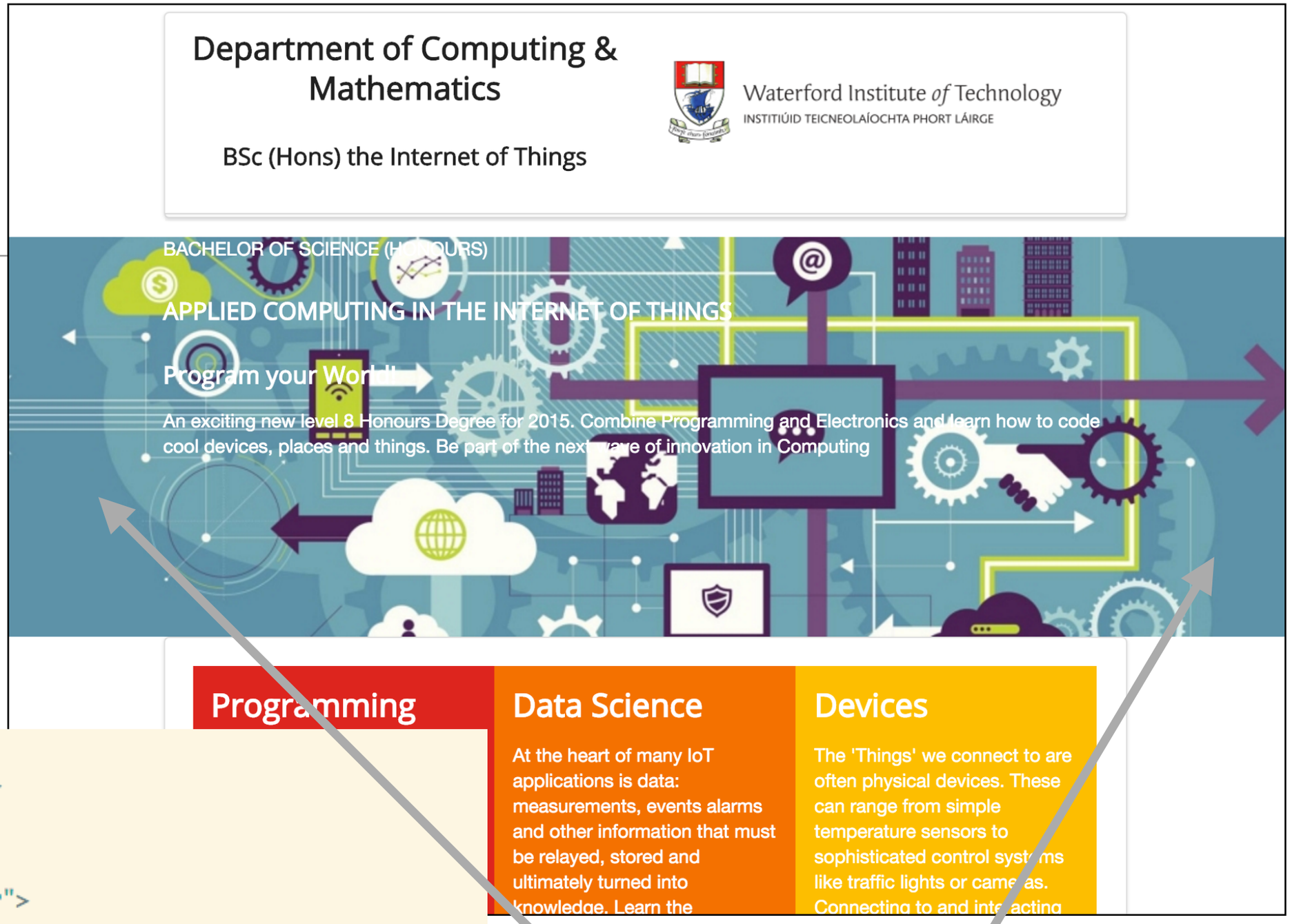



```
<article class="banner">
  <div>
    <p>
      BACHELOR OF SCIENCE (HONOURS)
    </p>

    <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
       to code cool devices, places and things. Be part of the next wave of
    </p>
  </div>
</article>
```






```
<body>
  <section class="ui container">
    ...header
  </section>
  <section class="banner">
    <section class="ui container">
      <section class="ui grid">
        <article class="ui seven wide column raised blue segment">
          ... existing banner section...
        </article>
      </section>
    </section>
  </section>
  <section class="ui container">
    curriculum
    sponsors
    footer sections.
  </section>
</body>
```

- Stretch the background image to the edges

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Program your World!

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Data Science

Devices

```
<section class="ui grid">
  <article class="ui seven wide column raised blue segment">
    <div>
      <p>
        BACHELOR OF SCIENCE (HONOURS)
      </p>

      <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 Programmi
      </p>
    </div>
  </article>
</section>
```

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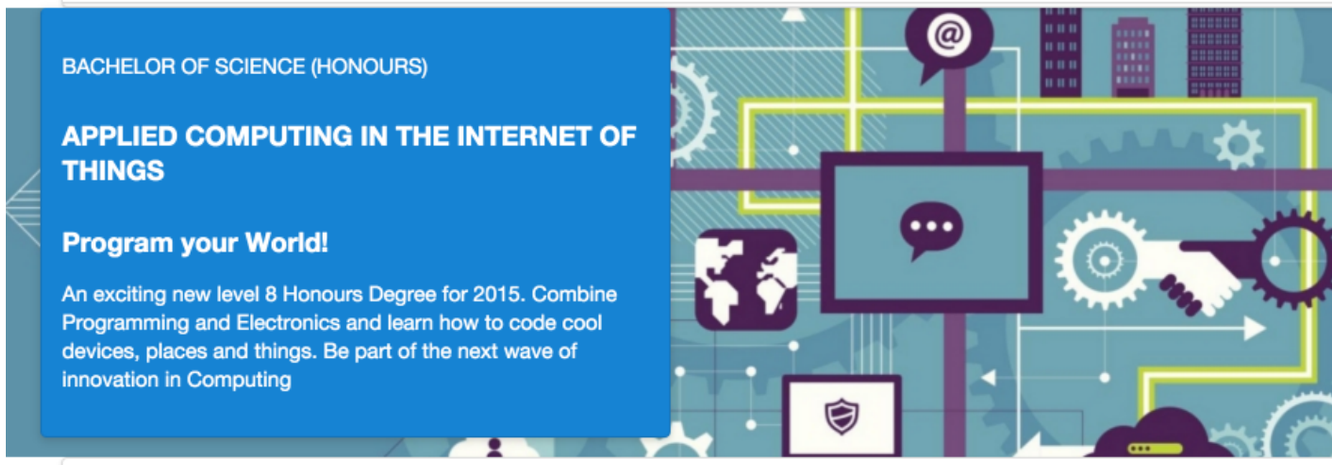
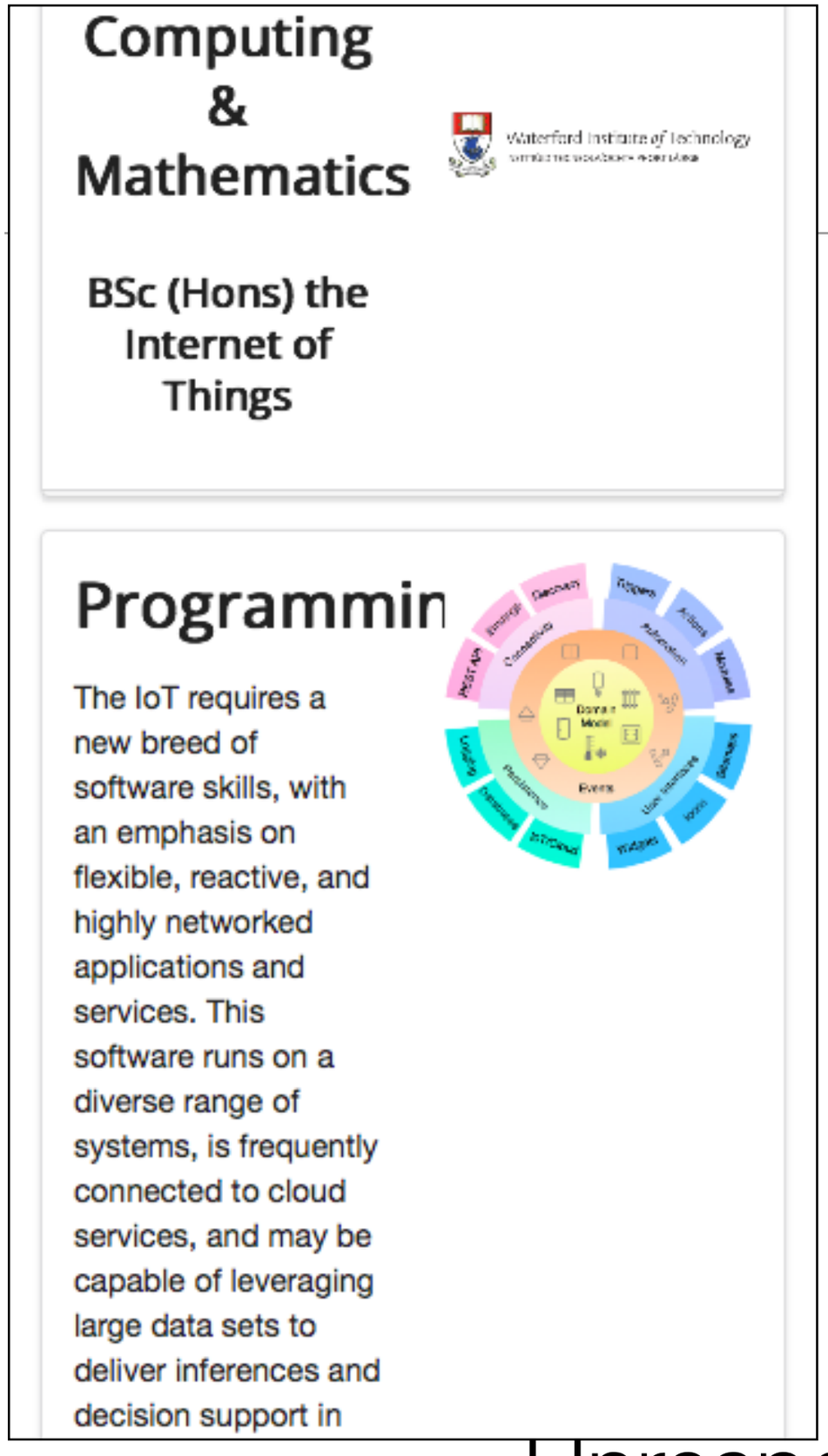
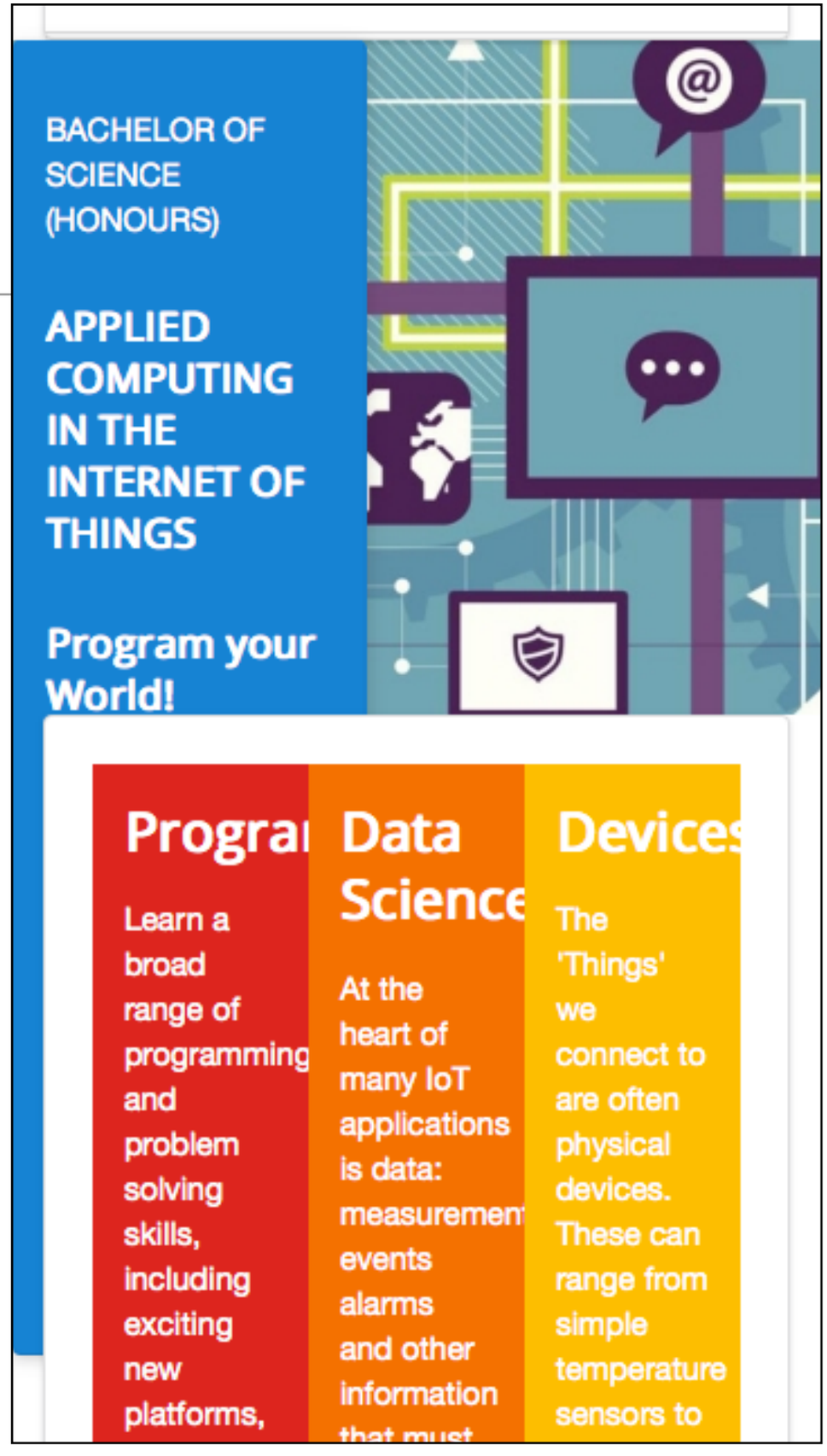


Programming | **Data Science** | **Devices**





Unresponsive Layouts

BSc (Hons) the Internet of Things

Waterford Institute *of* Technology
INSTITIÚID TEICNEOLAÍOCHTA PHORT LÁIRGE

Programming

The IoT requires a new breed of software skills, with an emphasis on flexible, reactive, and highly networked applications and services. This software runs on a diverse range of systems, is frequently connected to cloud services, and may be capable of leveraging large data sets to deliver inferences and decision support in an informed manner. The software is designed and implemented using agile techniques, with an emphasis on test driven development and quality user experiences..

Responsive Layouts

Programming

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 porfolio of facinating aplications.

Data Science

At the heart of many IoT applications is data: measurements, events alarms and other information that must be relayed, stored and ultimately turned into knowledge. Learn the fundamentals of modern approaches to data in this strand.

Devices

The 'Things' we connect to are often physical devices. These can range from simple temperature sensors to sophisticated control systems like traffic lights or cameras. Connecting to and interacting with the physical world is the subject of this strand.

Networks

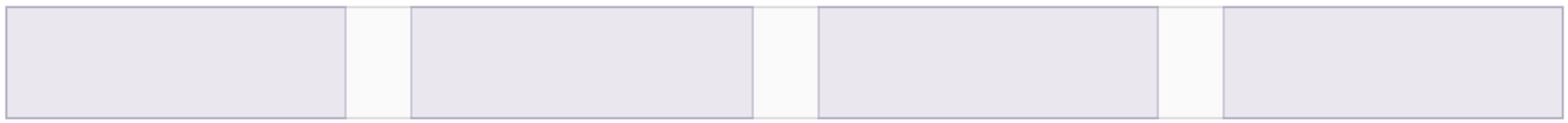
This strand will explore modern networks and cloud technology. Be able to configure, network and manage all categories of computer systems from simple controlers to single board board computers, mobiles and full workstations.

Grids

A grid is a structure with a long history used to align negative space in designs.

Using a grid makes content appear to flow more naturally on your page.

Toggle Animation



Columns

Grids divide horizontal space into indivisible units called "columns". All columns in a grid must specify their width as proportion of the total available row width.

All grid systems chooses an arbitrary column count to allow per row. Semantic's default theme uses **16 columns**

Grid

Introduction
- Grids
- Columns
- Rows
- Gutters
- Negative Margins
- Page Grids

Columns

Rows

Varying Grids

Responsive Grids
- Containers
- Stackable
- Reverse Order
- Doubling
- Manual Tweaks

Responsive Grids

http://semantic-ui.com/collections/grid.html

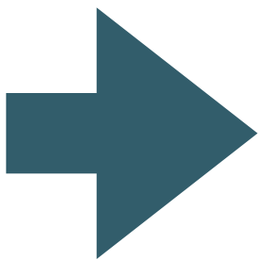
Stackable

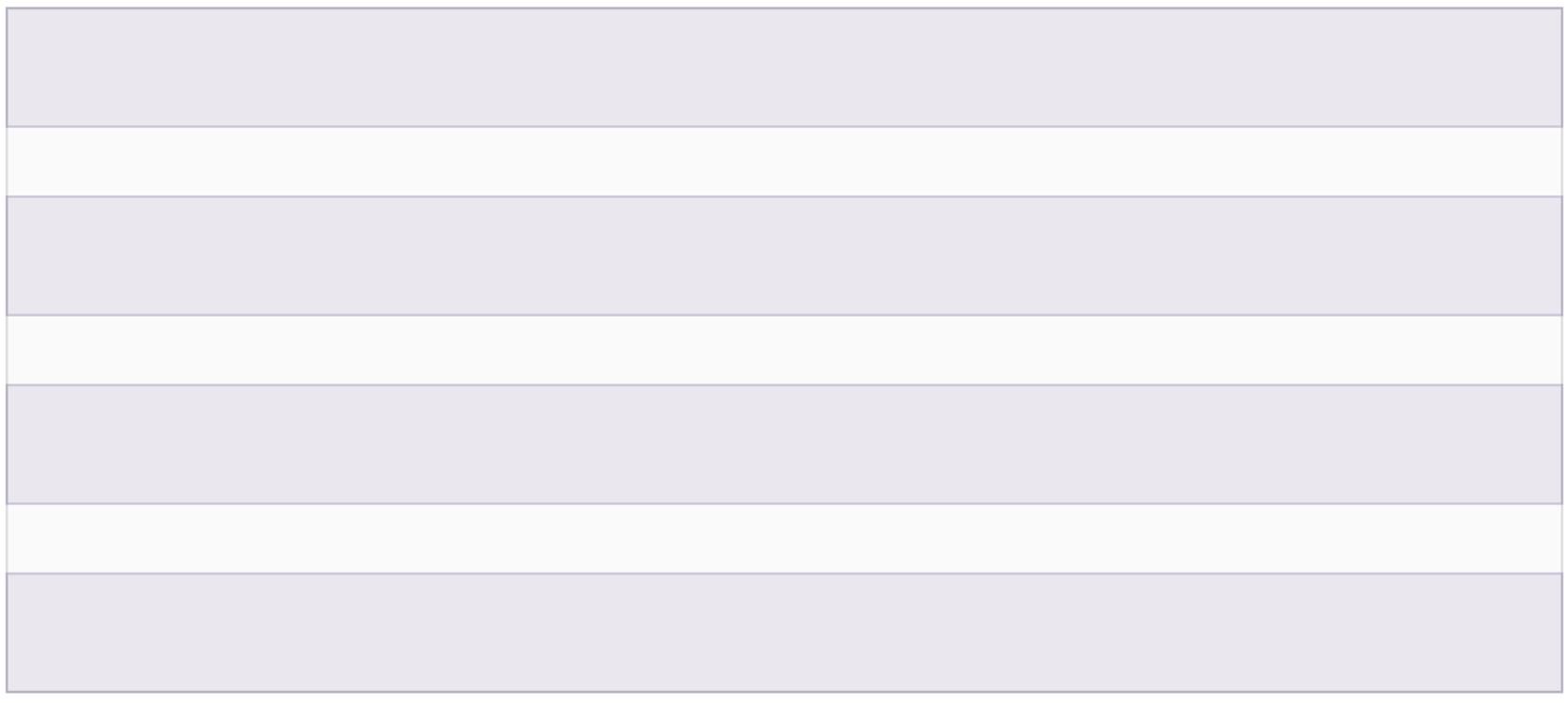
A `stackable grid` will automatically stack rows to a single columns on mobile devices

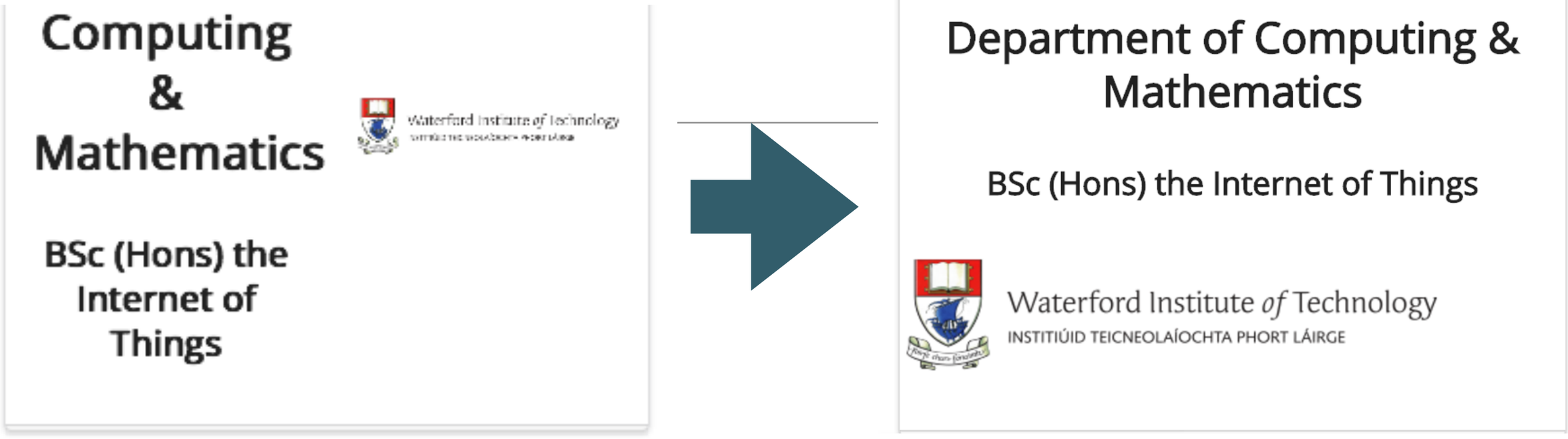
Example

```
<div class="ui stackable four column grid">
  <div class="column"></div>
  <div class="column"></div>
  <div class="column"></div>
  <div class="column"></div>
</div>
```

- Grid elements ‘stackable’ if the browser width to narrow








```
<header class="ui two column center aligned middle aligned stacked stackable grid segment">
  <div class="column">
    <h2 class="ui header"> Department of Computing &amp; Mathematics </h2>
    <h3 class="ui header"> BSc (Hons) the Internet of Things </h3>
  </div>
  <div class="column">
    <p>
      <img class="ui medium image" src="/assets/images/wit-crest.png" alt="WIT Crest">
    </p>
  </div>
</header>
```

- Distinguish between ‘stackable’ and ‘stacked’?

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Stackable

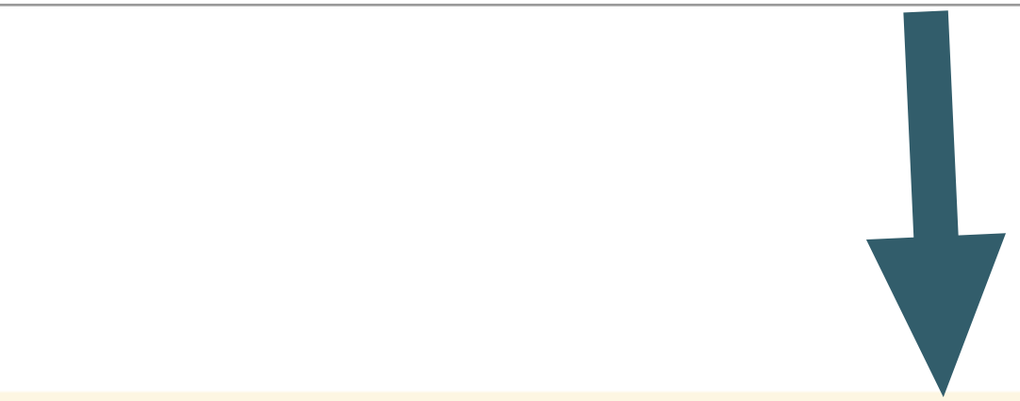
```
<section class="ui three column padded stacked stackable grid segment">

  <article class="red column">

    <h2> Programming </h2>
    <p>
      Learn a broad range of programming and problem solving skills, includi
      software tools and languages. Use these skills to build apps for mobi
      IoT applications. Evolve a porfolio of facinating aplications.
    </p>
    <div class="ui two column grid">
      <div class="left aligned column">
        <i class="huge settings icon"></i>
      </div>
      <div class="right aligned column">
        <a href="strands/programming.html">
          <i class="huge sign in icon"></i>
```

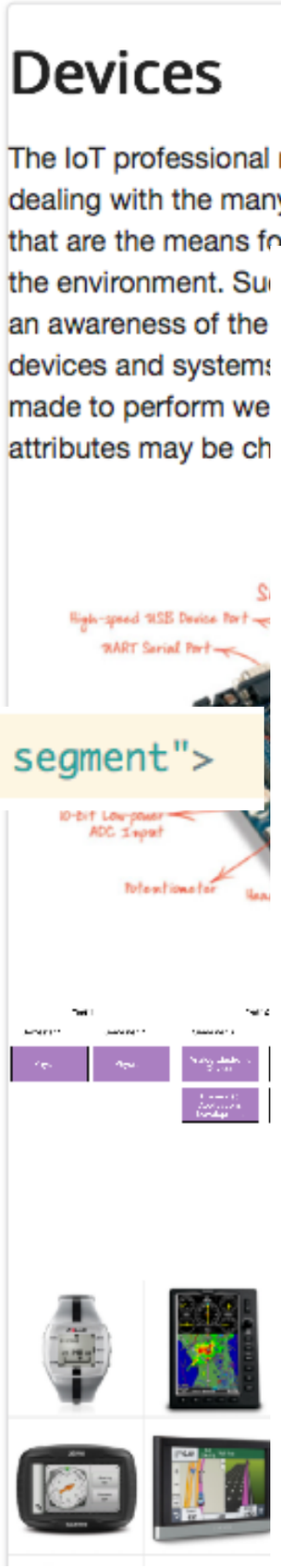
- ‘stackable grid’ class makes all columns in the grid stack up as browser narrows

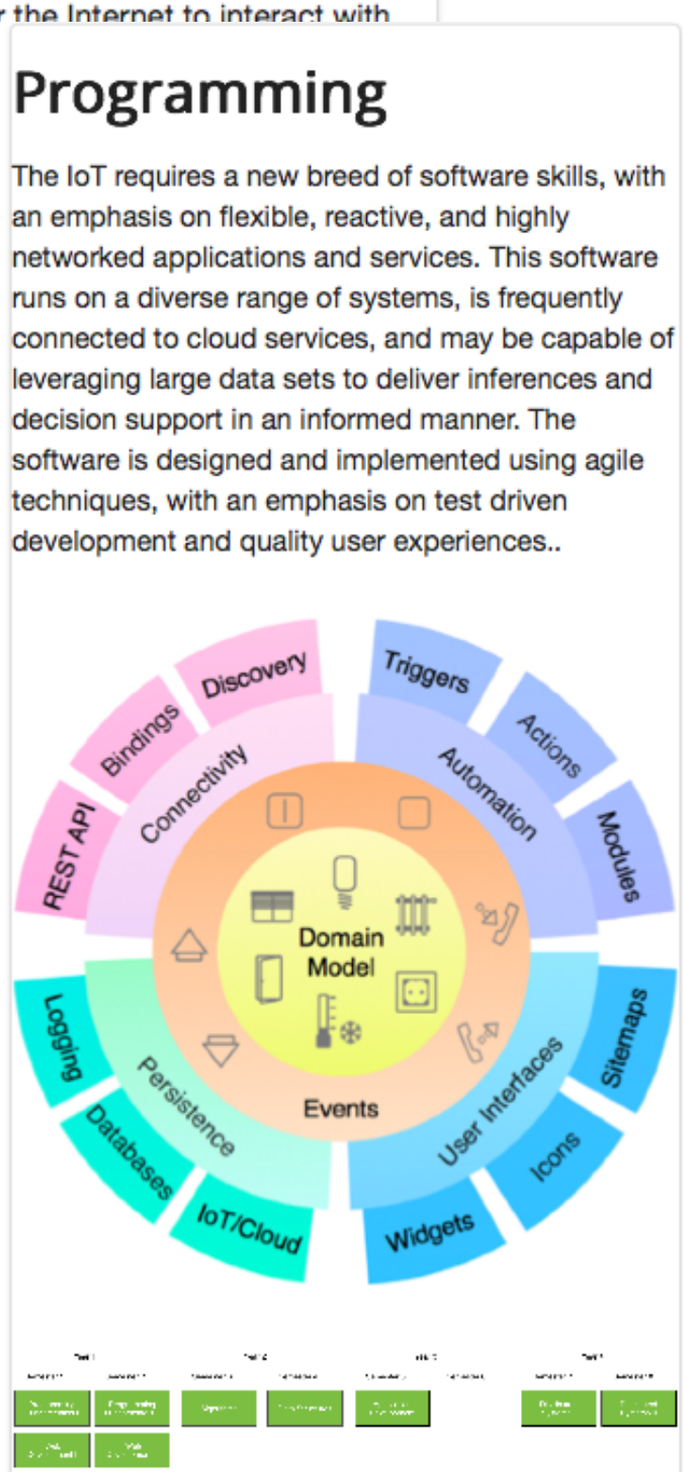
Stackable Strand Pages



```
<section class="ui three column padded stacked stackable grid segment">
```

- All strand pages now responsive





Semantic-UI Libraries

```
└── public
    ├── assets
    |   └── images
    |       ├── automotive.png
    |       ├── banner.jpg
    |       ├── ctrg.png
    |       ├── iot
...
    |   └── semantic
    |       ├── LICENSE
    |       ├── README.md
    |       ├── components
    |       |   ├── accordion.css
    |       |    ....
    |       |    .....
    |       ├── package.js
    |       ├── package.json
    |       ├── semantic.css
    |       ├── semantic.js
    |       ├── semantic.min.css
    |       ├── semantic.min.js
    |       └── themes
    |            .....
    ├── index.html
    ├── strands
    |   ├── data.html
    |   ├── devices.html
    |   ├── maths.html
    |   ├── networks.html
    |   ├── programming.html
    |   └── project.html
    └── style.css
```

- This is the library:
  - semantic.css
  - + a set of icons and other assets
  - The project is not heavily dependent on these files

- semantic.css is linked from all pages:

```
<link rel="stylesheet" href="/assets/css/semantic.css">
```

Alternative Mechanisms for Linking Semantic.css

- Replace

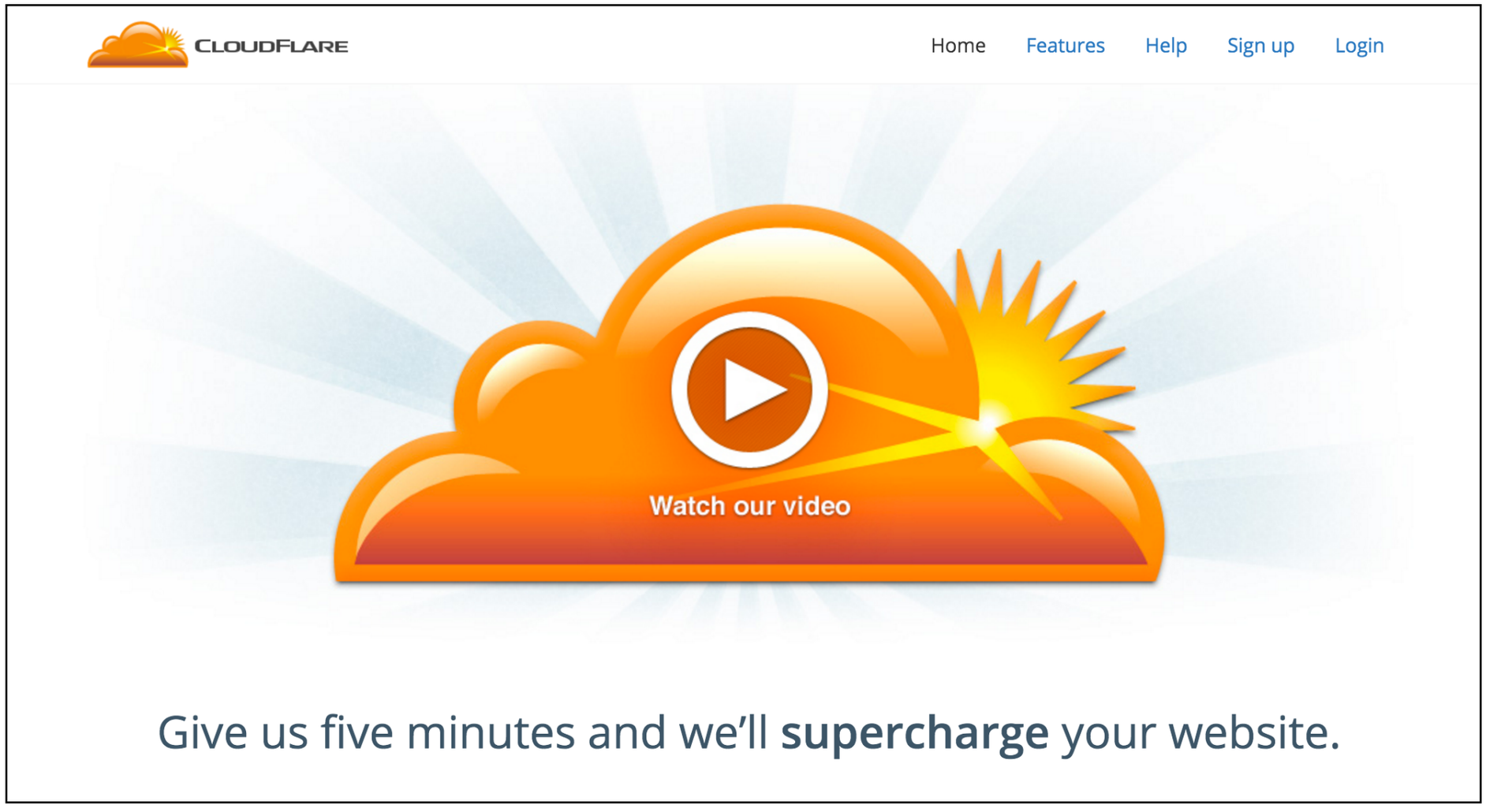
```
<link rel="stylesheet" href="/assets/css/semantic.css">
```

- With

```
<link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/semantic-ui/2.1.6/semantic.min.css" type="text/css">
<script type="text/javascript" src="http://cdnjs.cloudflare.com/ajax/libs/jquery/2.0.3/jquery.min.js"></script>
<script type="text/javascript" src="https://cdnjs.cloudflare.com/ajax/libs/semantic-ui/2.1.6/semantic.min.js"></script>
```

- Cloud flare is a Content Delivery Network (CDN)

- It hosts many common libraries and assets in the cloud, simplifying access



Summary of Classes (encountered so far)

class =“ui container”

class =“ui segment”

class =“ui header”

class =“ui image”

class =“ui grid”

class =“ui row”

class =“ui column”

class =“ui table”

class =“ui icon”

Variations: grid

stackable, {number} column *(16 for full row)*

Variations: segment

raised, stacked, padded, left/center/right aligned, top/middle/bottom aligned, {colour}

Variations: table

striped, single line, celled, collapsing

Variations: sizes of image & icon

mini, tiny, small, medium, large, big, huge, massive