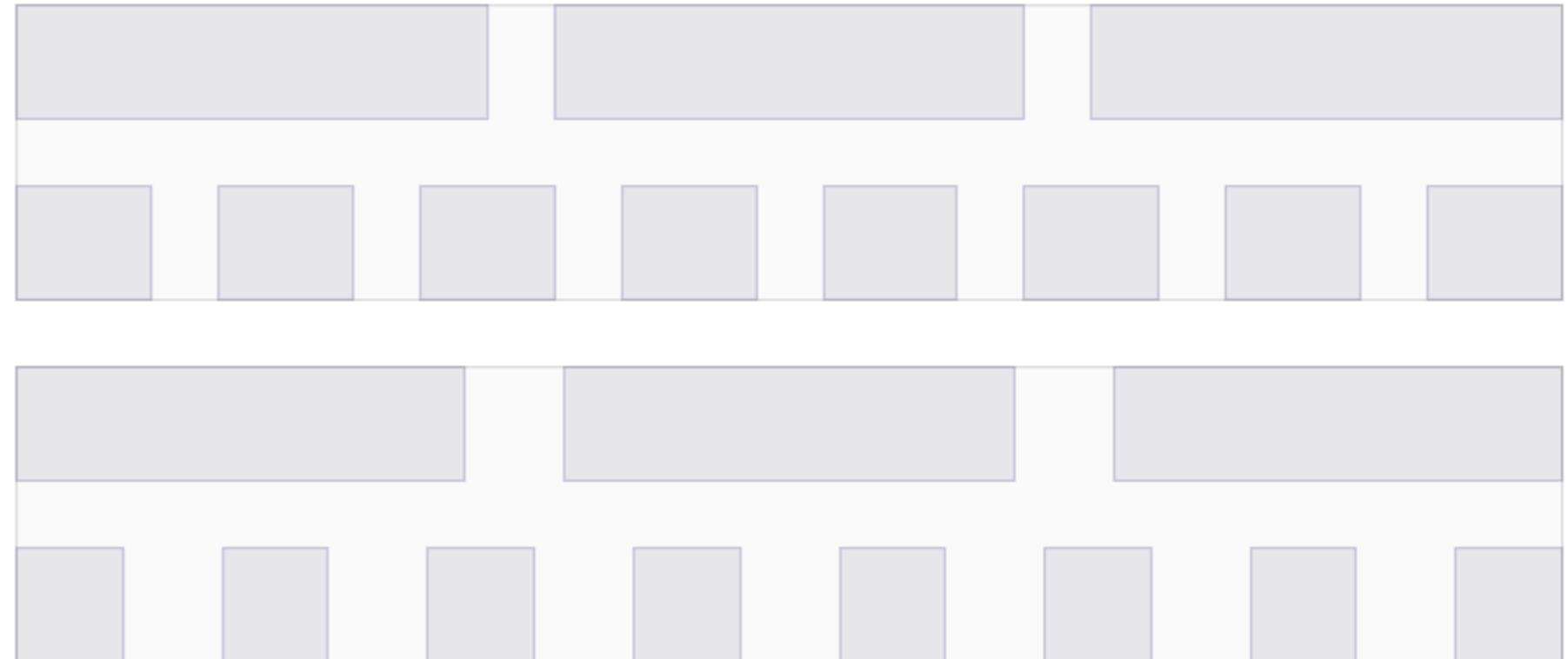


Semantic UI



Grids & Images

Grids

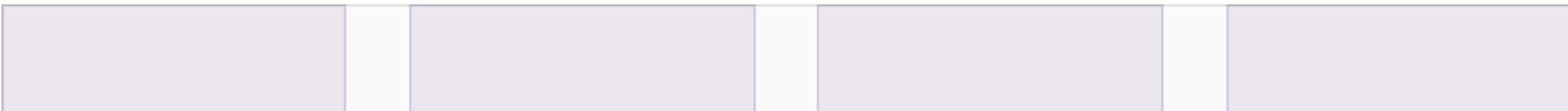
A grid is a structure with a [long history](#) used to align negative space in designs.

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



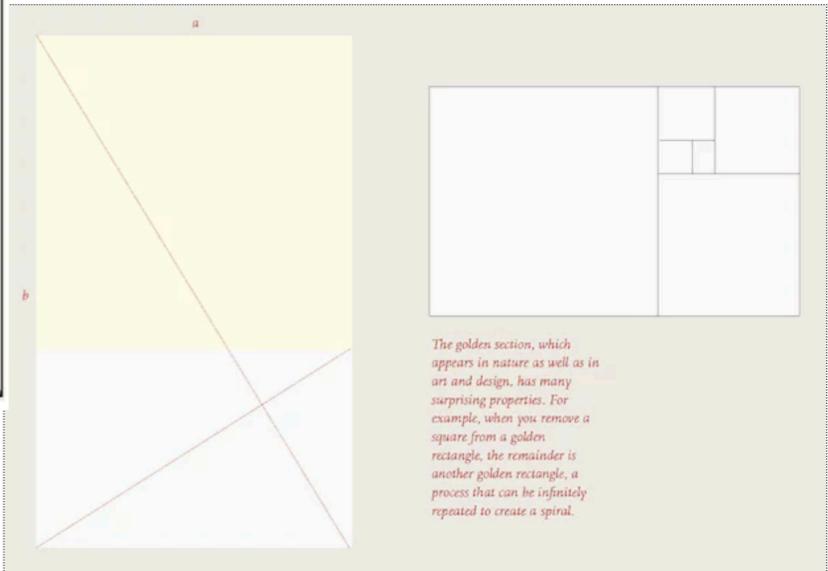
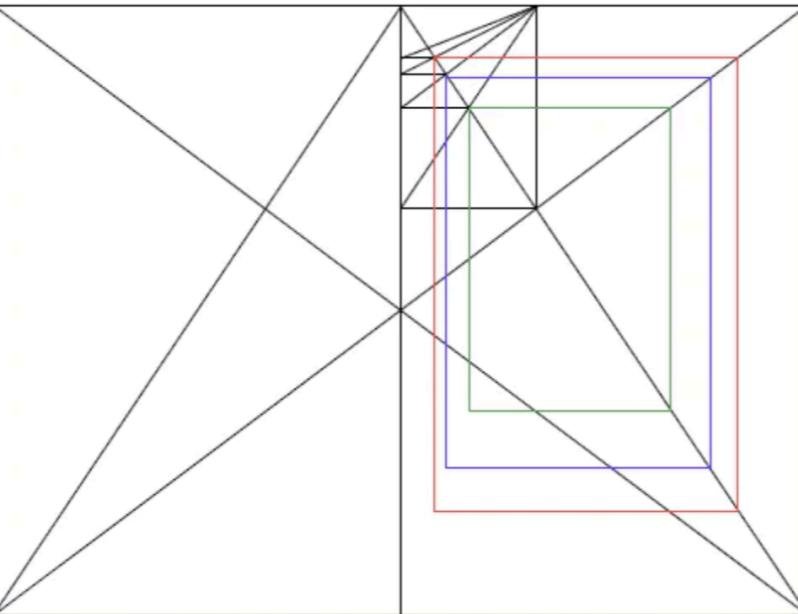
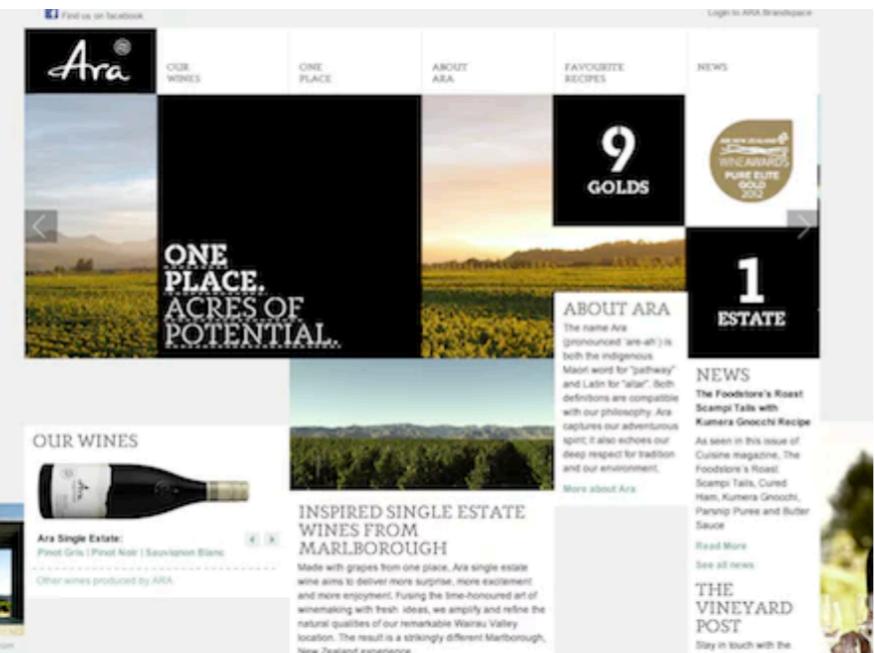
Toggle Animation

Example



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

History of the design grid



The golden section, which appears in nature as well as in art and design, has many surprising properties. For example, when you remove a square from a golden rectangle, the remainder is another golden rectangle, a process that can be infinitely repeated to create a spiral.



Grid systems	Grid systems	Grid systems
 <p>The typographic grid is a proportional grid. It is a closed programme. The typographic grid is a proportional grid. For composition, while, picture, it is a closed programme.</p>	 <p>A grid can be simple or complex, specific or generic, tightly defined or loosely interpreted. Typographic grids are all about control. They establish a system for arranging content within the space of a page, or both content and type. Designed in response to the internal pressures of content (text, image, date, day and the same size or weight), the typographic grid is an effective grid as it is a rigid formula but a flexible and resilient structure, designed with the secondary issue of content. Grids belong to the typographic framework of the page, and they are the modularity of typography to the typographic rules, guides, and constraints of graphics applications. Although software generates billions of smooth curves and continuous lines, every digital image is made up of a grid of pixels. A grid is constructed—ultimately—from a grid of neatly bounded blocks. The ubiquitous language of the grid is pixels. A grid is a system that creates a grid-like space in which windows overlap. In addition to this place in the background of the page, the foreground of the page also holds the technical tools graphic designers in the space of pixels. As a result, the modularity of typography, belonging to the typographic grid of the page, is transferred to the pixelated surface of the page. In the background of designs produced by graphic designers built a total.</p>	 <p>A grid can be simple or complex, specific or generic, tightly defined or loosely interpreted. Typographic grids are all about control. They establish a system for arranging content within the space of a page, or both content and type. Designed in response to the internal pressures of content (text, image, date, day and the same size or weight), the typographic grid is an effective grid as it is a rigid formula but a flexible and resilient structure, designed with the secondary issue of content. Grids belong to the typographic framework of the page, and they are the modularity of typography to the typographic rules, guides, and constraints of graphics applications. Although software generates billions of smooth curves and continuous lines, every digital image is made up of a grid of pixels. A grid is constructed—ultimately—from a grid of neatly bounded blocks. The ubiquitous language of the</p>
 <p>The typographic grid is a proportional grid. It is a closed programme. The typographic grid is a proportional grid. For composition, while, picture, it is a closed programme.</p>	 <p>A grid can be simple or complex, specific or generic, tightly defined or loosely interpreted. Typographic grids are all about control. They establish a system for arranging content within the space of a page, or both content and type. Designed in response to the internal pressures of content (text, image, date, day and the same size or weight), the typographic grid is an effective grid as it is a rigid formula but a flexible and resilient structure, designed with the secondary issue of content. Grids belong to the typographic framework of the page, and they are the modularity of typography to the typographic rules, guides, and constraints of graphics applications. Although software generates billions of smooth curves and continuous lines, every digital image is made up of a grid of pixels. A grid is constructed—ultimately—from a grid of neatly bounded blocks. The ubiquitous language of the</p>	 <p>The typographic grid is a proportional grid. It is a closed programme. The typographic grid is a proportional grid. For composition, while, picture, it is a closed programme.</p>



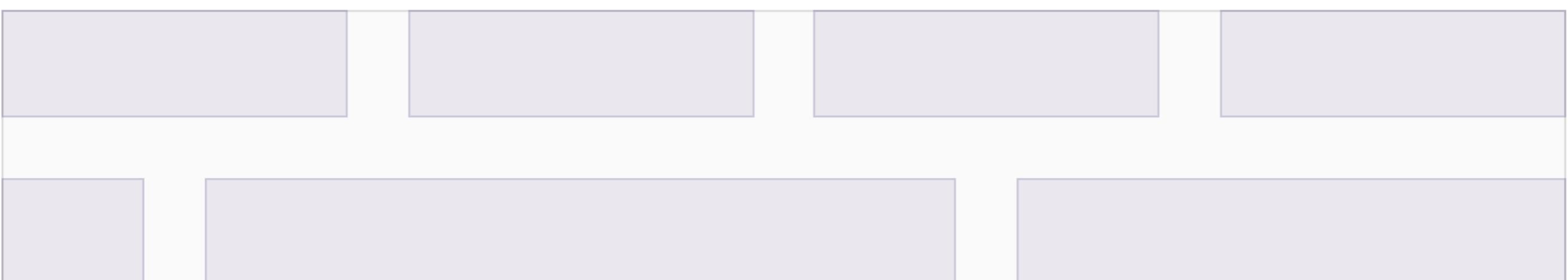
Columns

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.

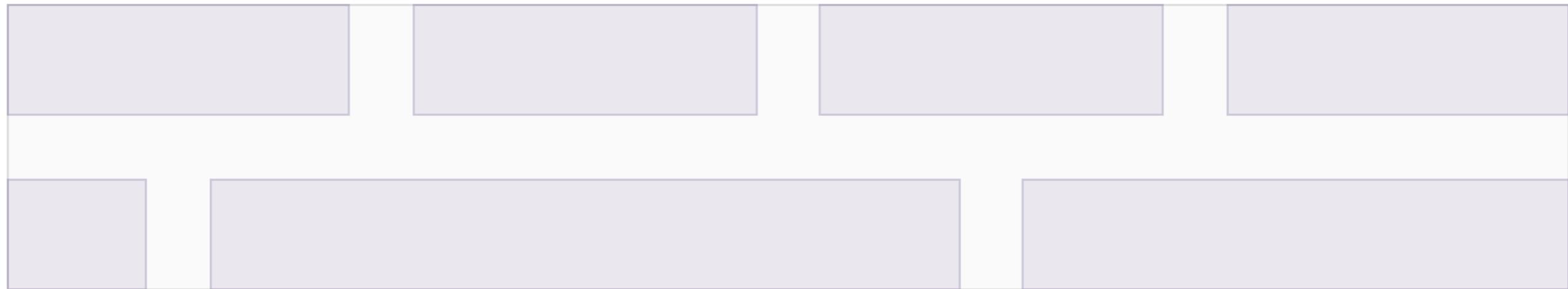
All grid systems chooses an arbitrary column count to allow per row. Semantic's default theme uses **16 columns**.

The example below shows four `four wide` columns will fit in the first row, `16 / 4 = 4`, and three various sized columns in the second row. `2 + 8 + 6 = 16`

The default column count, and other arbitrary features of grids can be changed by adjusting Semantic UI's underlying [theming variables](#).



Example



```
<div class="ui grid">
  <div class="four wide column"></div>
  <div class="four wide column"></div>
  <div class="four wide column"></div>
  <div class="four wide column"></div>
  <div class="two wide column"></div>
  <div class="eight wide column"></div>
  <div class="six wide column"></div>
</div>
```

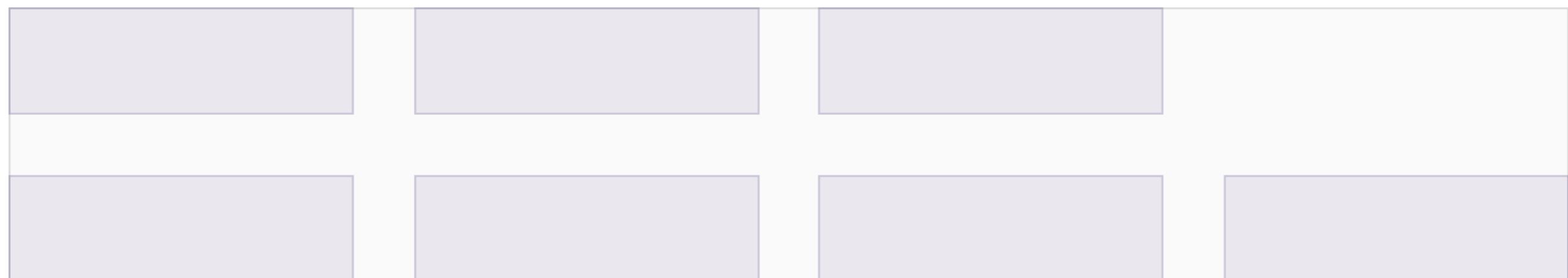
<>

Rows

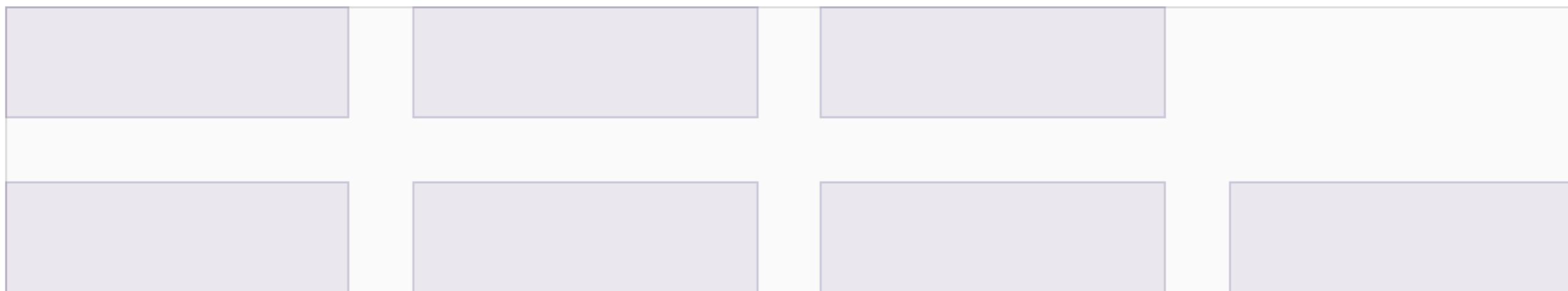
Rows are groups of columns which are aligned horizontally.

Rows can either be *explicit*, marked with an additional `row` element, or *implicit*, automatically occurring when no more space is left in a previous row.

After each group of columns vertical spacing is added to separate each group of columns, creating vertical rhythm.



Example



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

Grids in IoT Site



Waterford Institute *of* Technology

INSTITIÚID TEICNEOLAÍOCHTA PHORT LÁIRGE

Department of Computing & Mathematics

BSc (Hons) the Internet of Things

```
<header class="ui segment">
  <h2>
    
    Department of Computing & Mathematics
  </h2>
  <h3> BSc (Hons) the Internet of Things </h3>
</header>
```

- How to adapt this to render as shown below?

Department of Computing &
Mathematics

BSc (Hons) the Internet of Things



Waterford Institute *of* Technology
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**Department of Computing &
Mathematics**

BSc (Hons) the Internet of Things



Waterford Institute *of* Technology
INSTITIÚID TEICNEOLAÍOCHTA PHORT LÁIRGE

Two Columns

Department of Computing & Mathematics

BSc (Hons) the Internet of Things



Waterford Institute *of* Technology
INSTITIÚID TEICNEOLAÍOCHTA PHORT LÁIRGE

```
<header class="ui two column grid segment">
  <div class="ui column">
    <h2 class="ui header"> Department of Computing & Mathematics </h2>
    <h3 class="ui header"> BSc (Hons) the Internet of Things </h3>
  </div>
  <div class="ui column">
    <p>
      
    </p>
  </div>
</header>
```

combining grid with segment

+ introducing 2 “ui column” divisions

Centre Alignment + ui image

Department of Computing & Mathematics

BSc (Hons) the Internet of Things



Waterford Institute *of* Technology
INSTITIÚID TEICNEOLAÍOCHTA PHORT LÁIRGE

```
<header class="ui two column center aligned grid segment">
```

Department of Computing & Mathematics

BSc (Hons) the Internet of Things



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```

```

Middle Alignment

Department of Computing & Mathematics

BSc (Hons) the Internet of Things



Waterford Institute of Technology
INSTITIÚID TEICNEOLAÍOCHTA PHORT LÁIRGE

```
<header class="ui two column center aligned middle aligned grid segment">
  <div class="ui column">
    <h2 class="ui header"> Department of Computing & Mathematics </h2>
    <h3 class="ui header"> BSc (Hons) the Internet of Things </h3>
  </div>
  <div class="ui column">
    <p>
      
    </p>
  </div>
</header>
```



Waterford Institute *of* Technology
INSTITIÚID TEICNEOLAÍOCHTA PHORT LÁIRGE

Department of Computing & Mathematics

BSc (Hons) the Internet of Things

Department of Computing & Mathematics

BSc (Hons) the Internet of Things



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Department of Computing & Mathematics

BSc (Hons) the Internet of Things



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Department of Computing & Mathematics

BSc (Hons) the Internet of Things



Waterford Institute *of* Technology
INSTITIÚID TEICNEOLAÍOCHTA PHORT LÁIRGE

```
<header class="ui two column center aligned middle aligned grid segment">
```

Image

An image is a graphic representation of something



Size

An image may appear at different sizes

Semantic uses arbitrary default values for image sizes from mini to massive. It is recommended to update these with values used in your project in `image.variables`.

Class Name	Size
Mini	35px
Tiny	80px
Small	150px
Medium	300px
Large	450px
Big	600px
Huge	800px
Massive	960px



```








```



Image Variations

Variations



User Avatar



Avatar



Bordered



Fluid



Rounded



Circular



Vertically Aligned

Centered

Spaced

Floated

Size

Grids & Image Example - Before

```
<section class="ui segment">
  <h4> Supported by leading edge research at... </h4>
  <p>
    
    
    
  </p>
</section>
```

Supported by leading edge research at...



Grids & Image Example - After



- Grid - center aligned
- Two Rows
 - Row 1 - single column
 - Row 2 - 3 columns

Grids & Image Example - After

Supported by leading edge research at...



```
<section class="ui grid segment">
  <section class="ui row">
    <p> Supported by leading edge research at... </p>
  </section>
  <section class="ui three column row">
    <div class="ui column">
      
    </div>
    <div class="ui column">
      
    </div>
    <div class="ui column">
      
    </div>
  </section>
</section>
```

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 portfolio of fascinating applications.

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

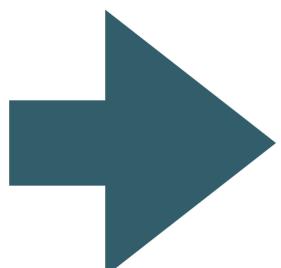
This strand will explore modern networks and cloud technology. Categories of computer systems from simple controllers to single board computers, mobiles and full workstations.

Project

Building exciting IoT projects in every semester of the programme. Your projects will combine skills acquired from the other strands and enable you to build a comprehensive and compelling portfolio of IoT applications and services.

Mathematics

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



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 portfolio of fascinating applications.

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

Text Grid Example

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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 and interesting ways.

- Two Rows

- Row 1 - three columns
- Row 2 - three columns

```
<section class="ui grid segment">
  <section class="ui three column row">
    <article class="column">
      ... code for the first column
    </article>
    <article class="column">
      ... code for the second column
    </article>
    <article class="column">
      ... code for the third column
    </article>
  </section>

  <section class="ui three column row">
    <article class="column">
      ... code for the first column
    </article>
    <article class="column">
      ... code for the second column
    </article>
    <article class="column">
      ... code for the third column
    </article>
  </section>

</section>
```