Rethinking Responsive Building Techniques

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Traditional way to support mobile
手機版傳統開發方式

Build a separate mobile website

製作手機版網頁

This is really hard!　這真的很難！

http://www.flickr.com/photos/45940879@N04/5421517469/

Responsive Design
彈性網頁設計

- Single source of HTML
  單一原始HTML
- Responds to different viewport sizes
  根據瀏覽器大小調整內容

http://www.flickr.com/photos/49894842@N08/6094281702/

Responsive Content Example

Palantir.net

http://www.palantir.net/experience

1024 x 768 (tablet - landscape)

palantir.net

Services Team Work Blog Contact

Increasing Knowledge and Appreciation of Our World

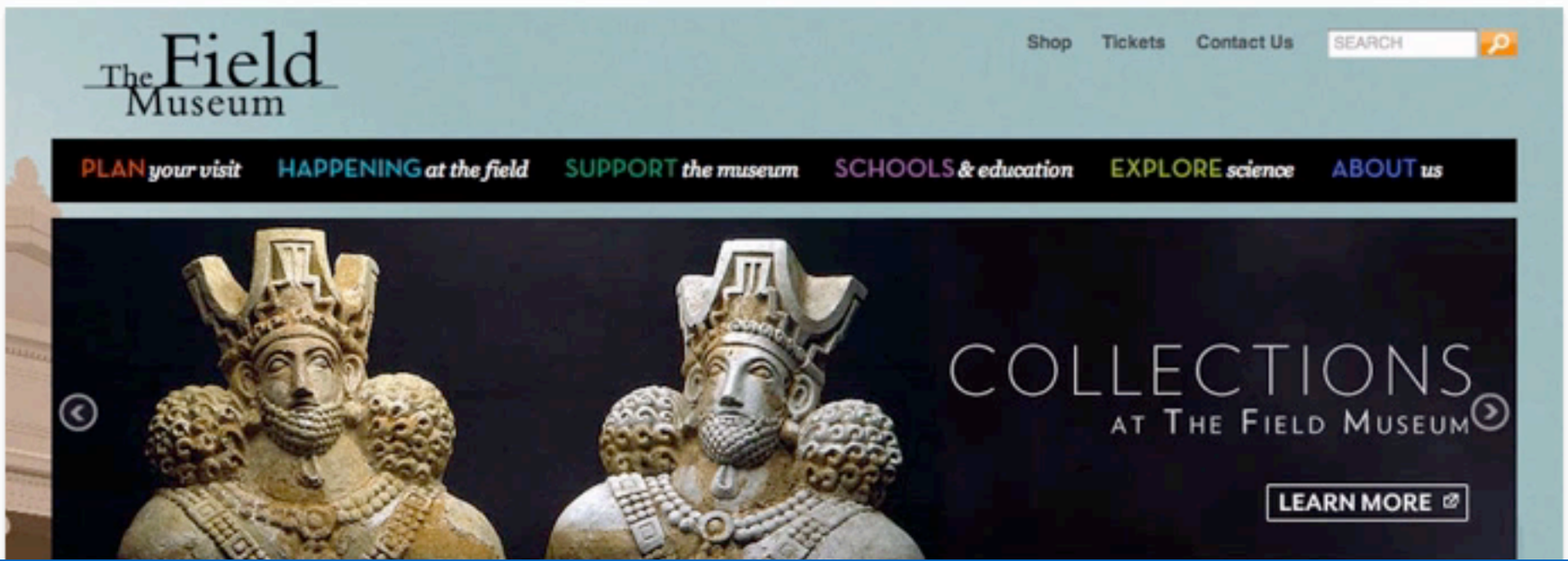
The Field Museum of Natural History | fieldmuseum.org

HIGHLIGHTS

Streamlined workflow and opened up access to more content editors and contributors

Enabled the quick and easy creation of reusable microsites

Enabled collections



The obvious method: region-based layouts

"Multi-Device Layout Patterns"
http://www.lukew.com/ff/entry.asp?1514

Where's the content?

Mobile First

Content First

Users First

Drupal 7 provides an opportunity

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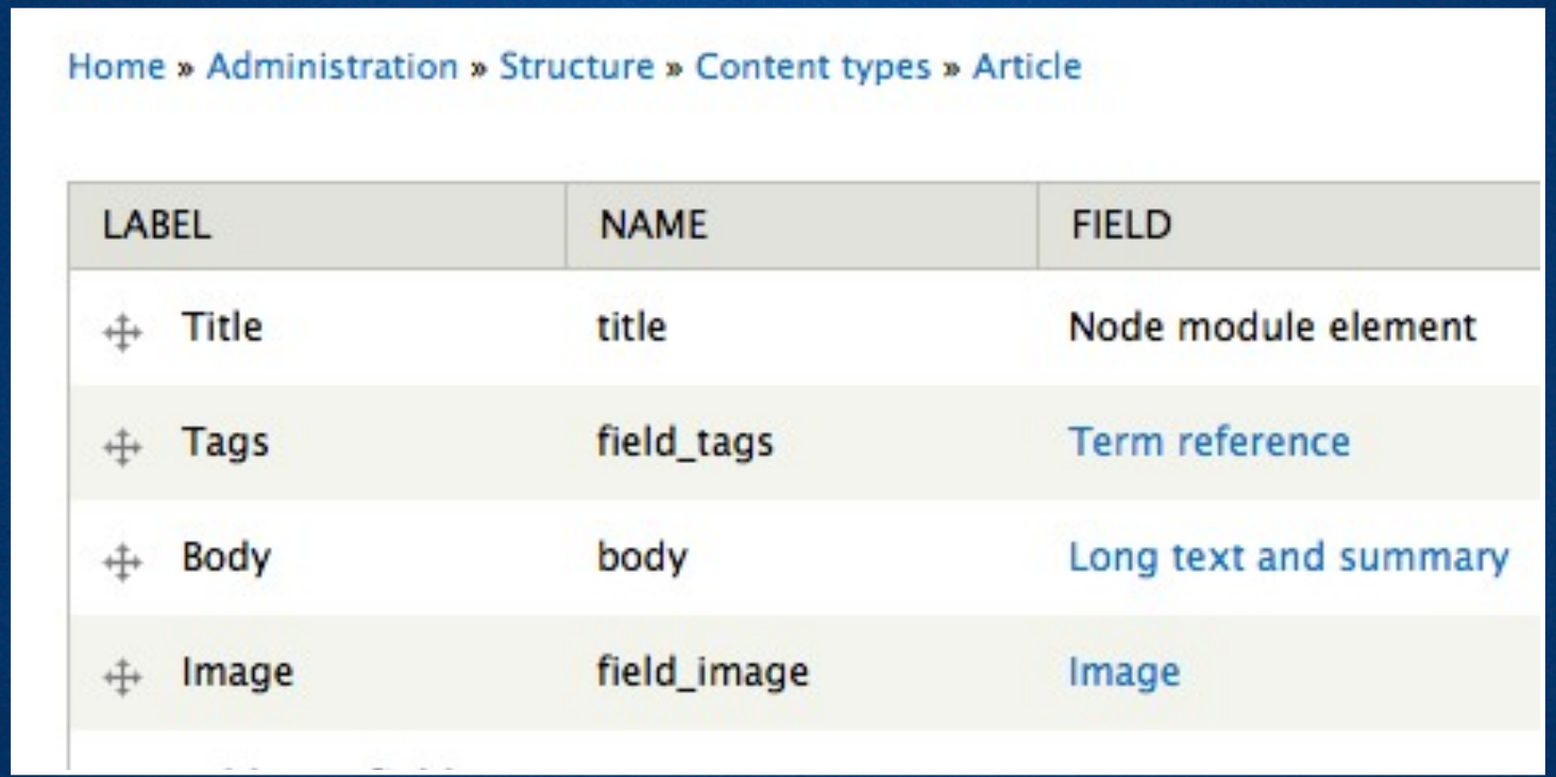


Field-based responsive layouts means “responsive content”

Each field becomes a grid item

Building techniques

There's a difference between having the right tools and knowing how to use them.

http://www.flickr.com/photos/93755244@N00/4083220012/

Our Tools: CSS

```
.grid-item {
  float: left;
  width: 25%;
}
```

```
.grid-item-2 {
  clear: left;
  float: left;
  width: 50%;
}
```

Creating a layout is like… a game of Tetris

http://www.flickr.com/photos/64062444@N00/2405714702/

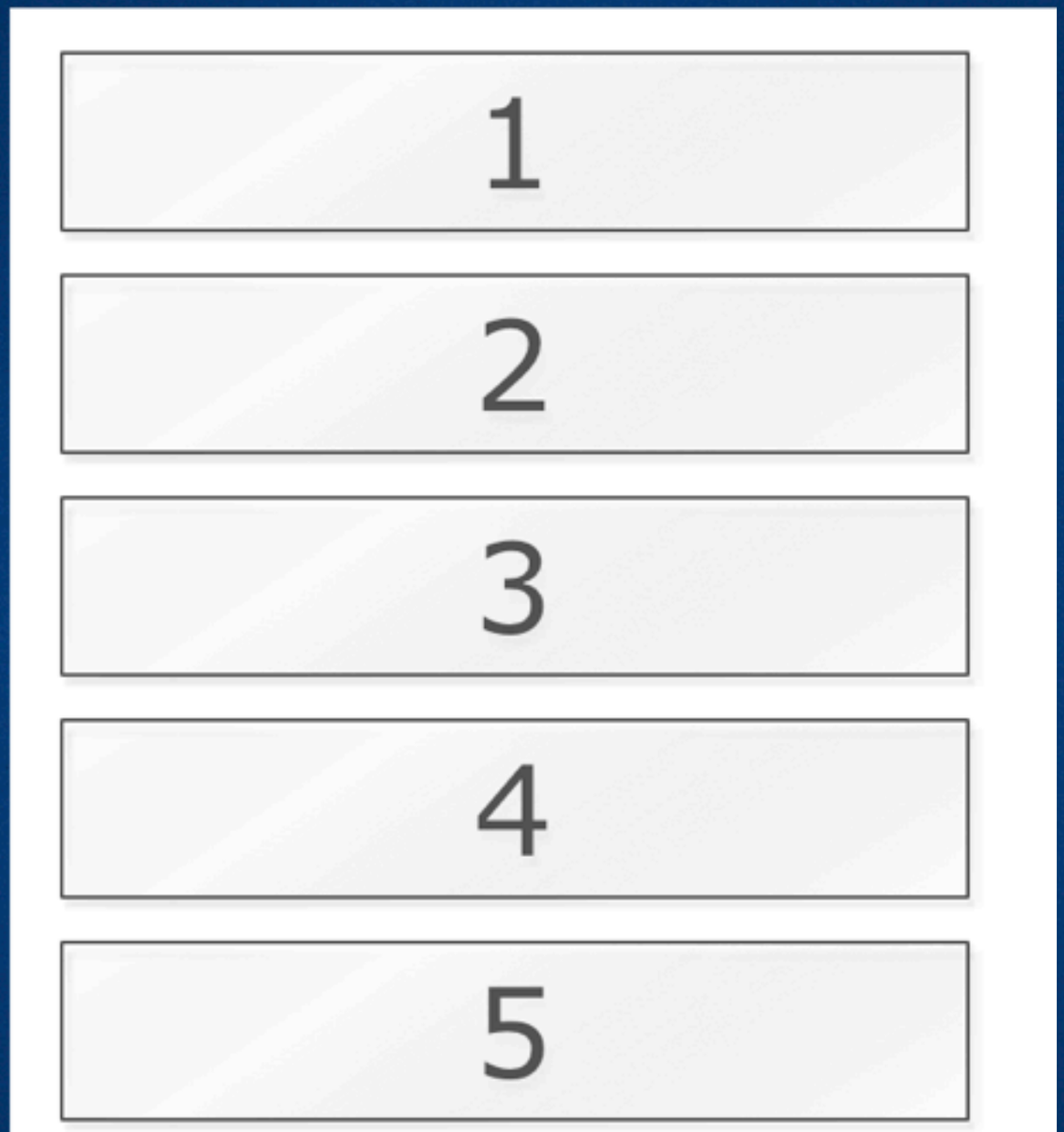
Creating a layout is like…
a game of Tetris

http://www.flickr.com/photos/64062444@N00/2405714702/

…but upside-down.

Content first

http://www.flickr.com/photos/14829735@N00/3035036771/

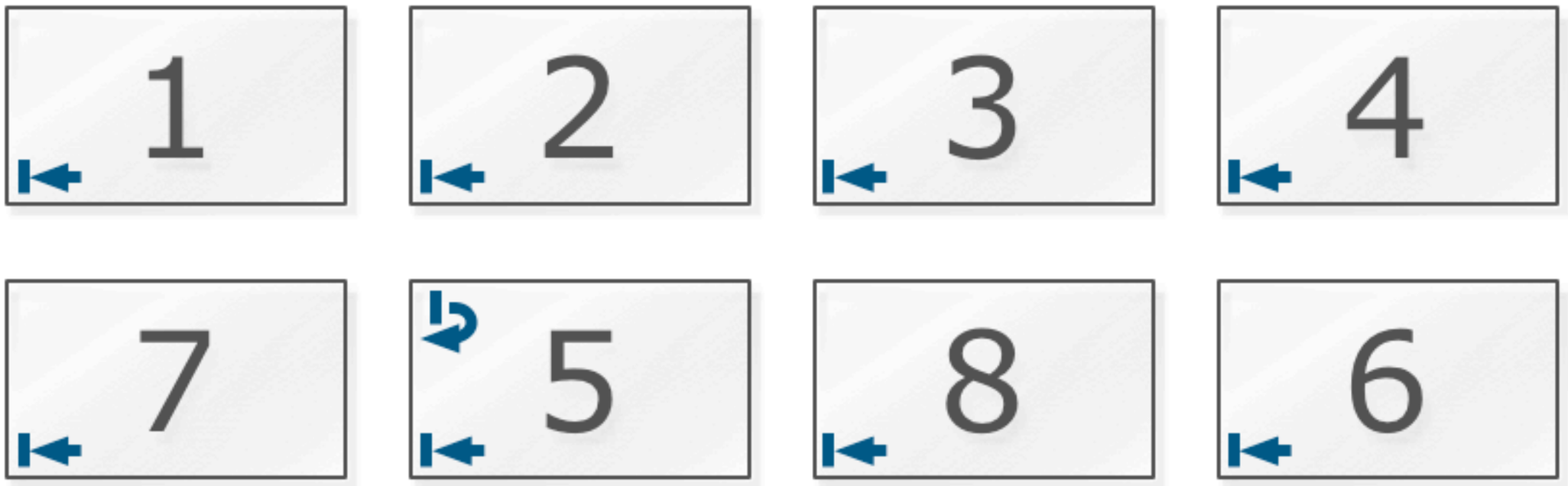


Use your content's natural semantic ordering.

(All other rules depend on it.)

The Adjacent Sibling Rule

http://www.flickr.com/photos/51682904@N00/97322542/



Rows are composed of elements that are next to each other in the HTML source.

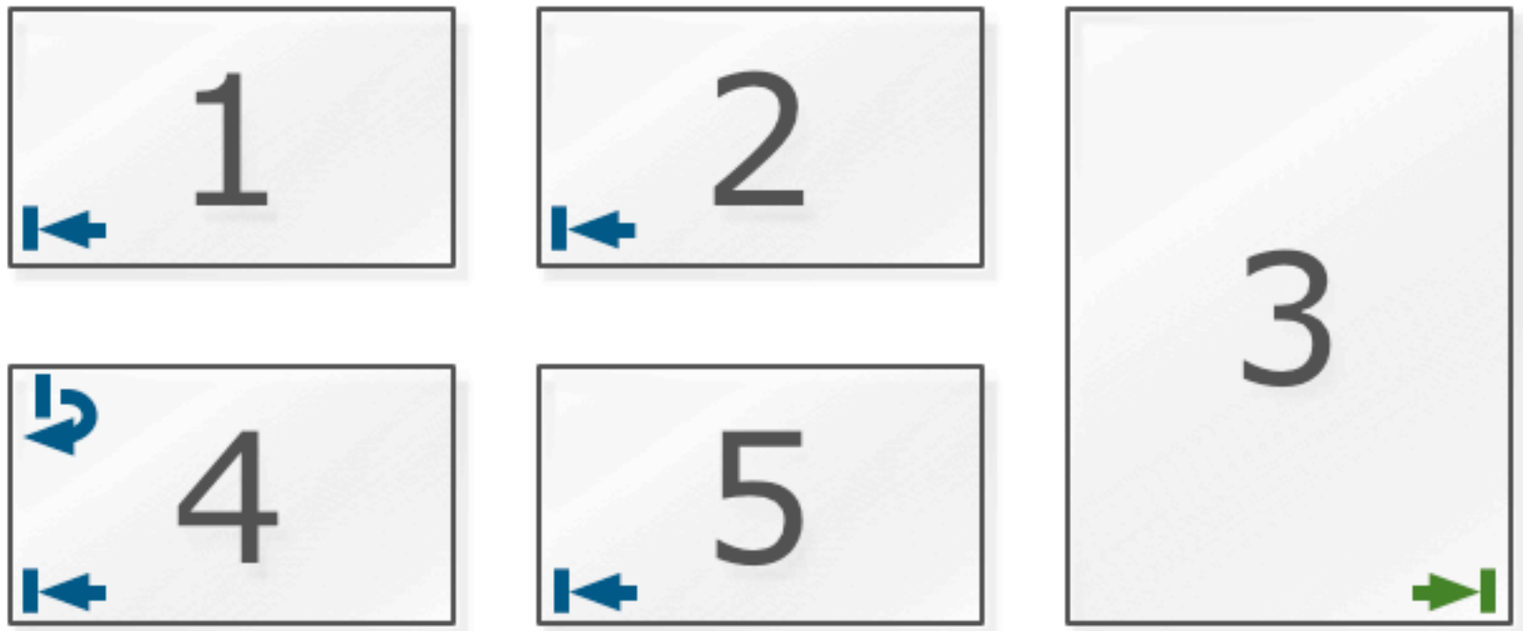
(But they can be re-arranged within the row.)

(To start a new row, add a clear to the first sibling.)

float: left; clear: left;

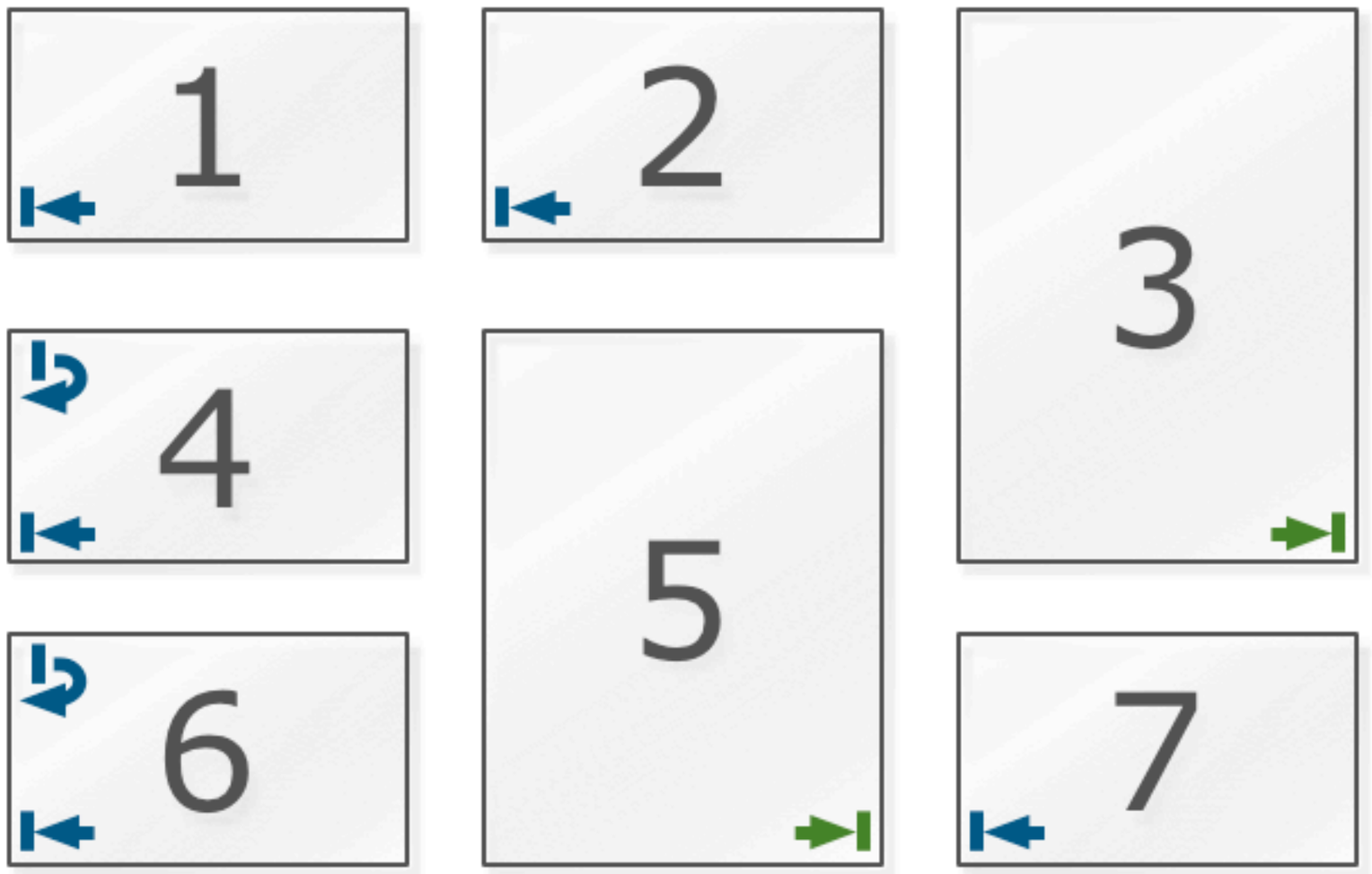
http://www.flickr.com/photos/50619629@N00/2009739521/

The Opposing Float



An element can span multiple rows if it floats in the opposite direction of its siblings.

float: left; clear: left; float: right;



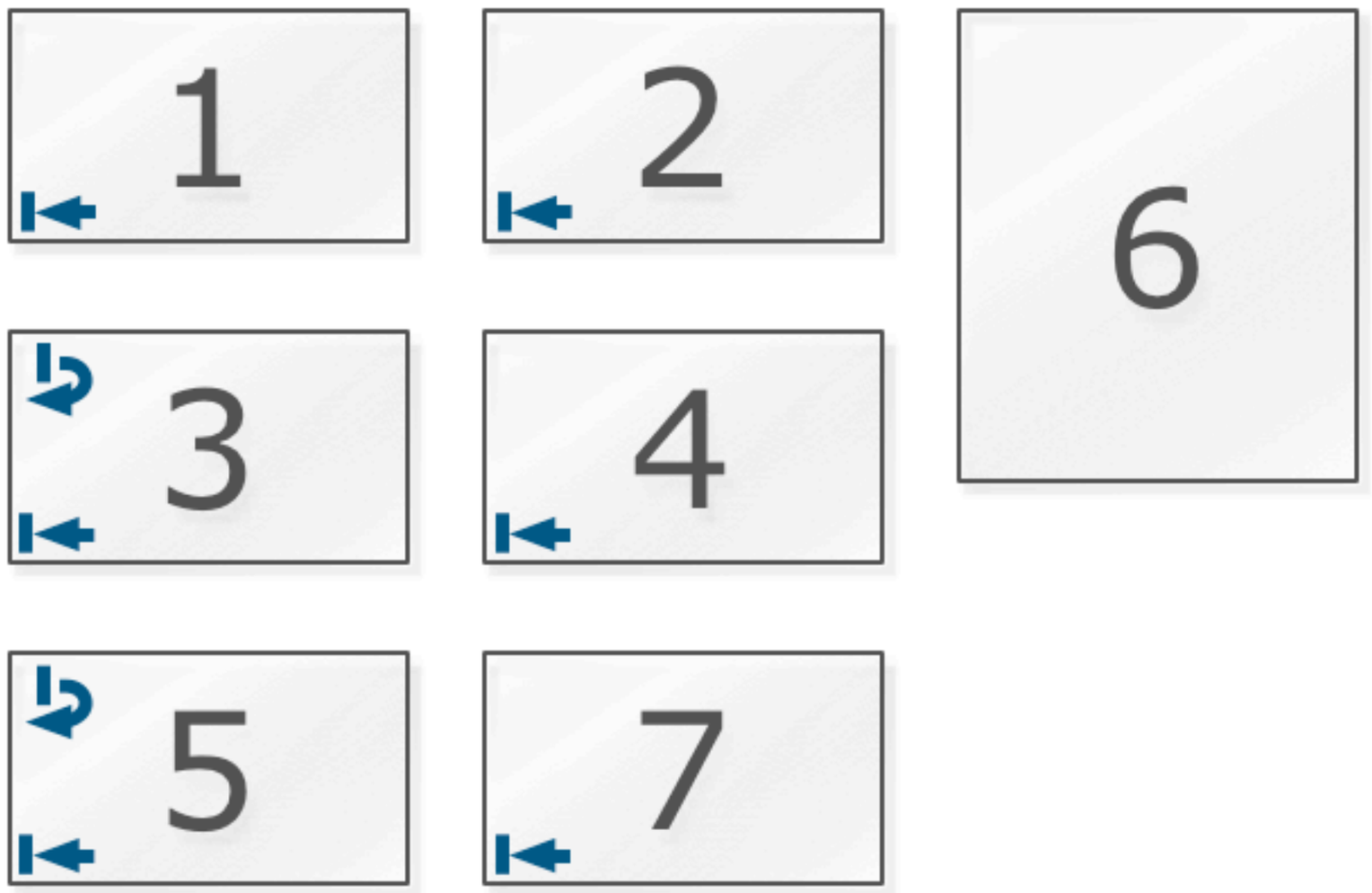
More complicated layouts are possible

float: left; clear: left; float: right;

http://www.flickr.com/photos/35201330@N04/3963369547/

The Absolute Exception

(to the Adjacent Sibling rule)

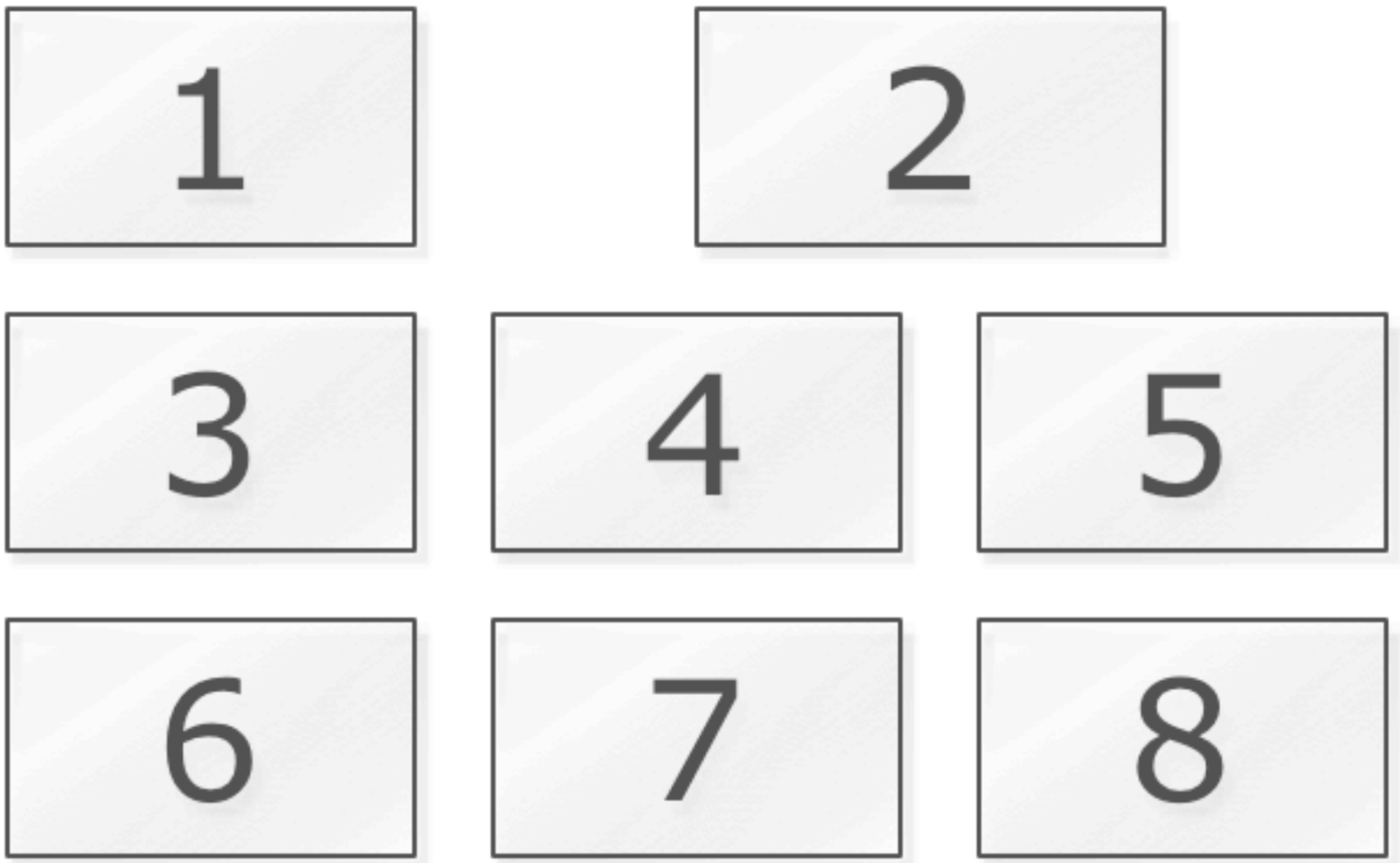


If you leave space below and
can be sure no other content will overlap,
you can apply position: absolute;

One more thing…

The Violator

http://www.flickr.com/photos/93374685@N00/4079138888/



Violate the grid judiciously.

More Tools:
Sass to the rescue!

http://zengrids.com/

Thank You!