



CROSS X COUNTRY

# **FROST-PROOF FUNDAMENTALS**

# FROST-PROOF FUNDAMENTALS

*Slope Style*

Selectors

Cascade Order

Floating Left & Right

| 1 |



# SLOPE STYLE

## *Adding CSS:*

- ✗ Inline style attribute
- ✗ In the <head>
- ✗ External <link>

| 1 |



# SLOPE STYLE

## Adding CSS:

- ✗ Inline style attribute

```
<h1 style="color: #98c7d4;">CSS Cross Country</h1>
```

!

| 1 |



# SLOPE STYLE

## *Adding CSS:*

- ✗ In the <head>

```
<head>
  <style>
    h1 { color: #98c7d4; }
  </style>
</head>
```

!

| 1 |



# SLOPE STYLE

## *Adding CSS:*

- ✗ External <link>

```
<head>
  <title>CSS Cross Country</title>
  <link rel="stylesheet" href="styles.css" />
</head>
```



| 1 |

# FROST-PROOF FUNDAMENTALS

Slope Style

*Selectors*

Cascade Order

Floating Left & Right

| 1 |



# SELECTORS

## *Primary DOM selectors:*

- ✖ Element selector
- ✖ Class selector
- ✖ ID selector

### ADVANCED SELECTORS

Learn more about advanced  
selectors like child & sibling:

[Link #1](#)

| 1 |



# SELECTORS

## Primary DOM selectors:

- ✗ Element selector

```
<h1 class="intro" id="header">Nice and Toasty</h1>
```



```
h1 {  
    color: #aba4ac;  
    margin-bottom: 10px;  
}
```

| 1 |

# SELECTORS

## Primary DOM selectors:

- ✗ Class selector

```
<h1 class="intro" id="header">Nice and Toasty</h1>
```

```
.intro {  
  color: #aba4ac;  
  margin-bottom: 10px;  
}
```

| 1 |



# SELECTORS

## Primary DOM selectors:

- ✖ ID selector

```
<h1 class="intro" id="header">Nice and Toasty</h1>
```

```
#header {  
    color: #aba4ac;  
    margin-bottom: 10px;  
}
```

| 1 |



# SELECTORS

## Compound selectors:

```
<h1 class="intro" id="header">Nice and Toasty</h1>
```

```
h1#header {  
    color: #aba4ac;  
    margin-bottom: 10px;  
}
```

| 1 |



# FROST-PROOF FUNDAMENTALS

Slope Style

Selectors

*Cascade Order*

Floating Left & Right

| 1 |



# CASCADE ORDER

**Style priority is determined by position in site:**

- ✗ External <link>
- ✗ In the <head>
- ✗ Inline style attribute
- ✗ Using !important !

*Increasing Priority*



# CASCADE ORDER

*Priority is also dependent on position in document:*

```
.intro {  
  color: #444245;  
}  
.intro {  
  color: #dddadd;  
}
```



*the second color definition for  
.downhill overrides the first*

# CASCADE ORDER

*Non-conflicting properties will be combined:*

```
.intro {  
    color: #dddadd;  
}
```

```
.intro {  
    margin-bottom: 5px;  
    width: 900px;  
}
```

```
.intro {  
    color: #dddadd;  
    margin-bottom: 5px;  
    width: 900px;  
}
```

# FROST-PROOF FUNDAMENTALS

Slope Style

Selectors

Cascade Order

*Floating Left & Right*

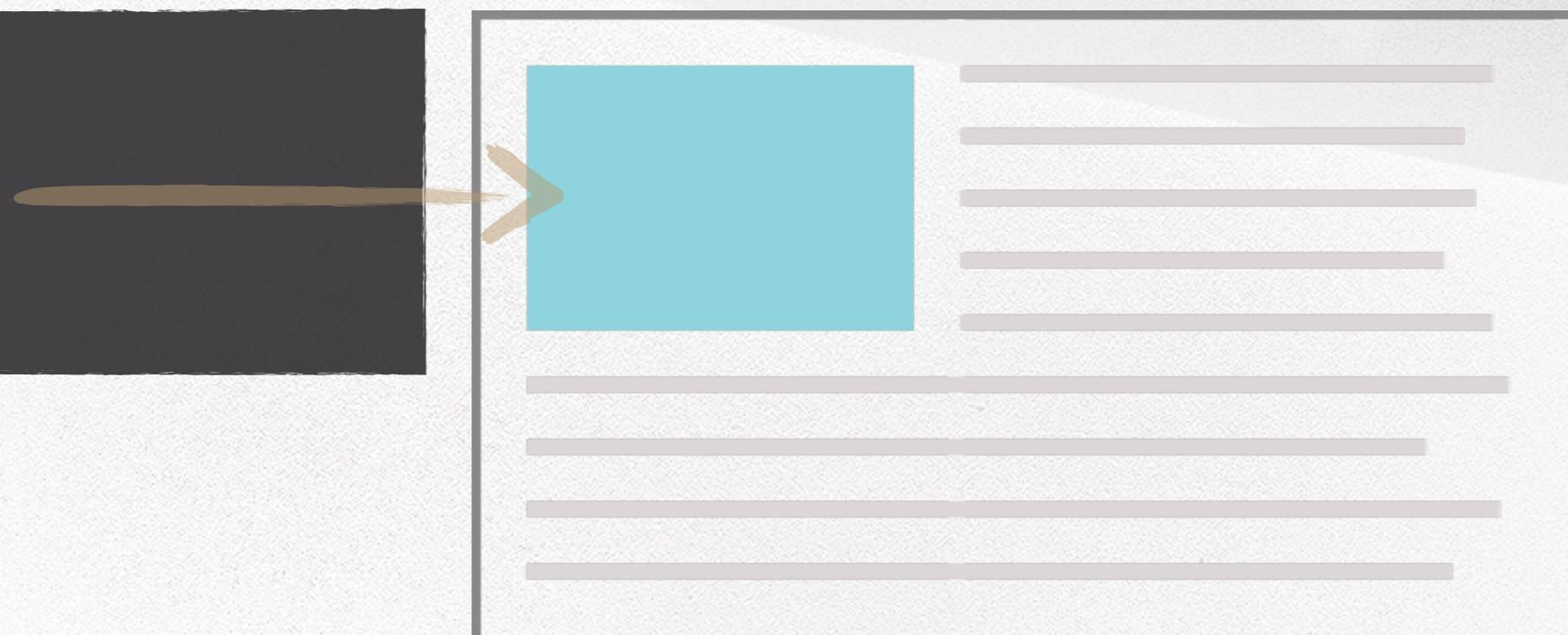
| 1 |



# FLOATING LEFT & RIGHT

```
<article>
  
  <p>To successfully ski, simply do not fall.</p>
</article>
```

```
img {
  float: left;
}
```

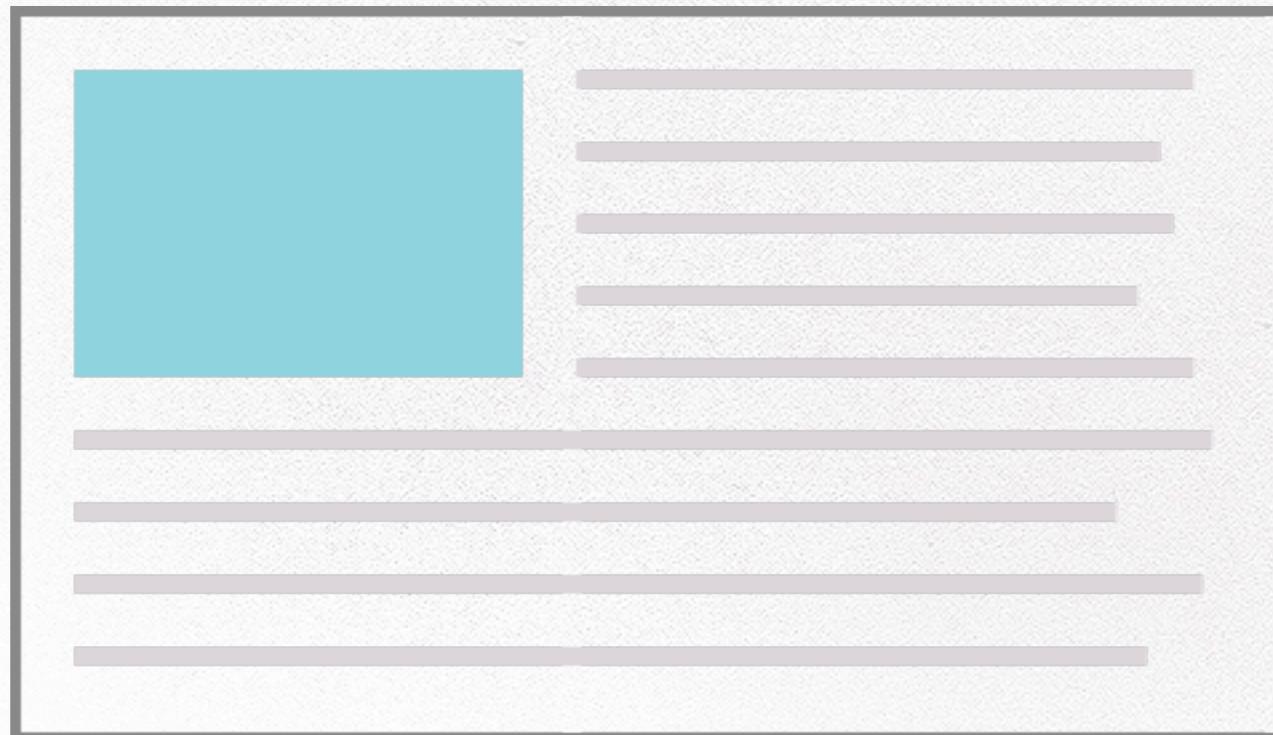


# FLOATING LEFT & RIGHT

*Removes elements from the document flow and moves them to a specified edge*

- ✖ Other content within the parent element will wrap around floats

```
float: left / right / none
```

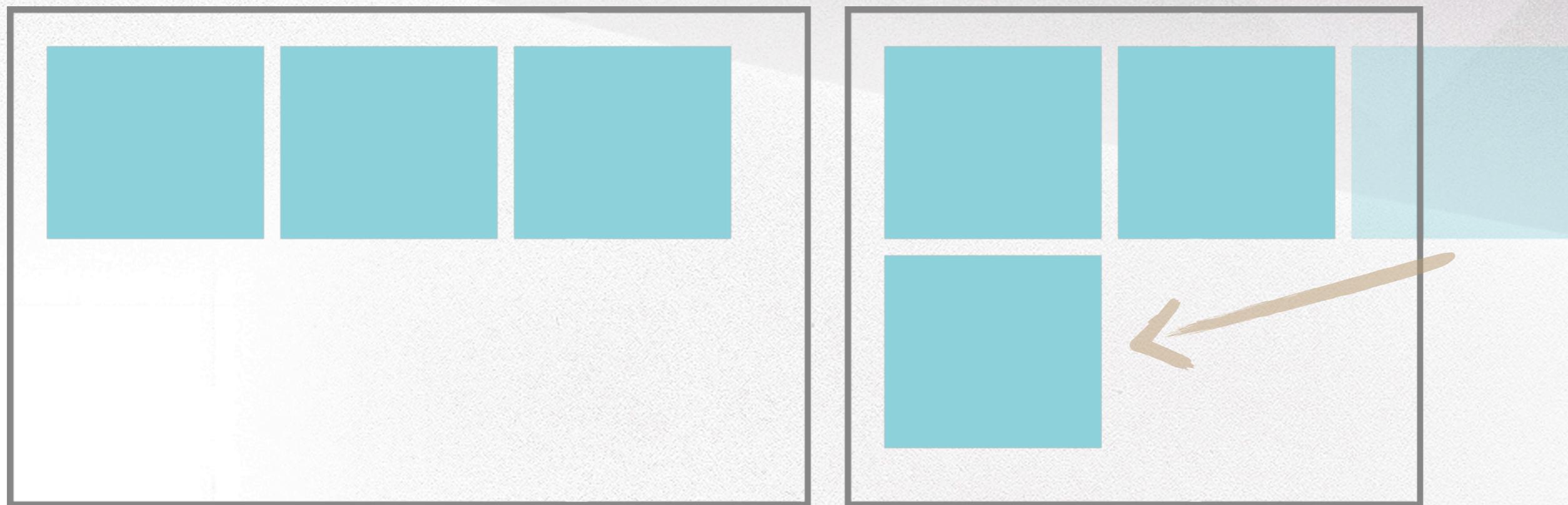


| 1 |

# FLOATING LEFT & RIGHT

## Stacking order:

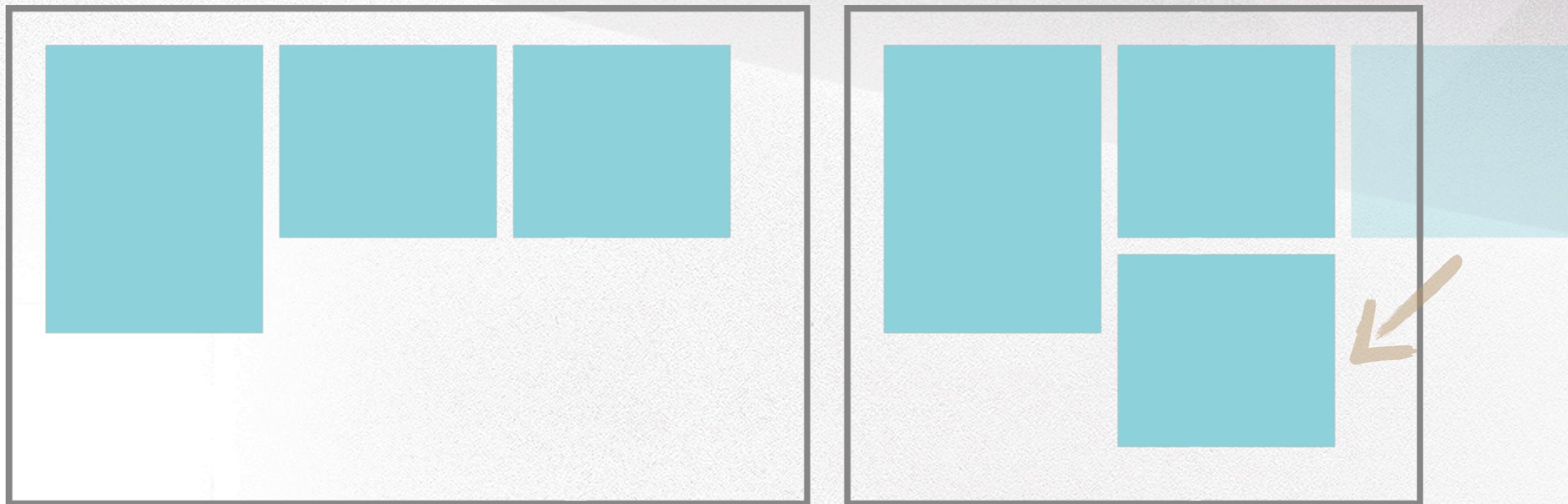
- ✗ Floated elements stack up to the parent edge, then move down to the next available edge



# FLOATING LEFT & RIGHT

## Stacking order:

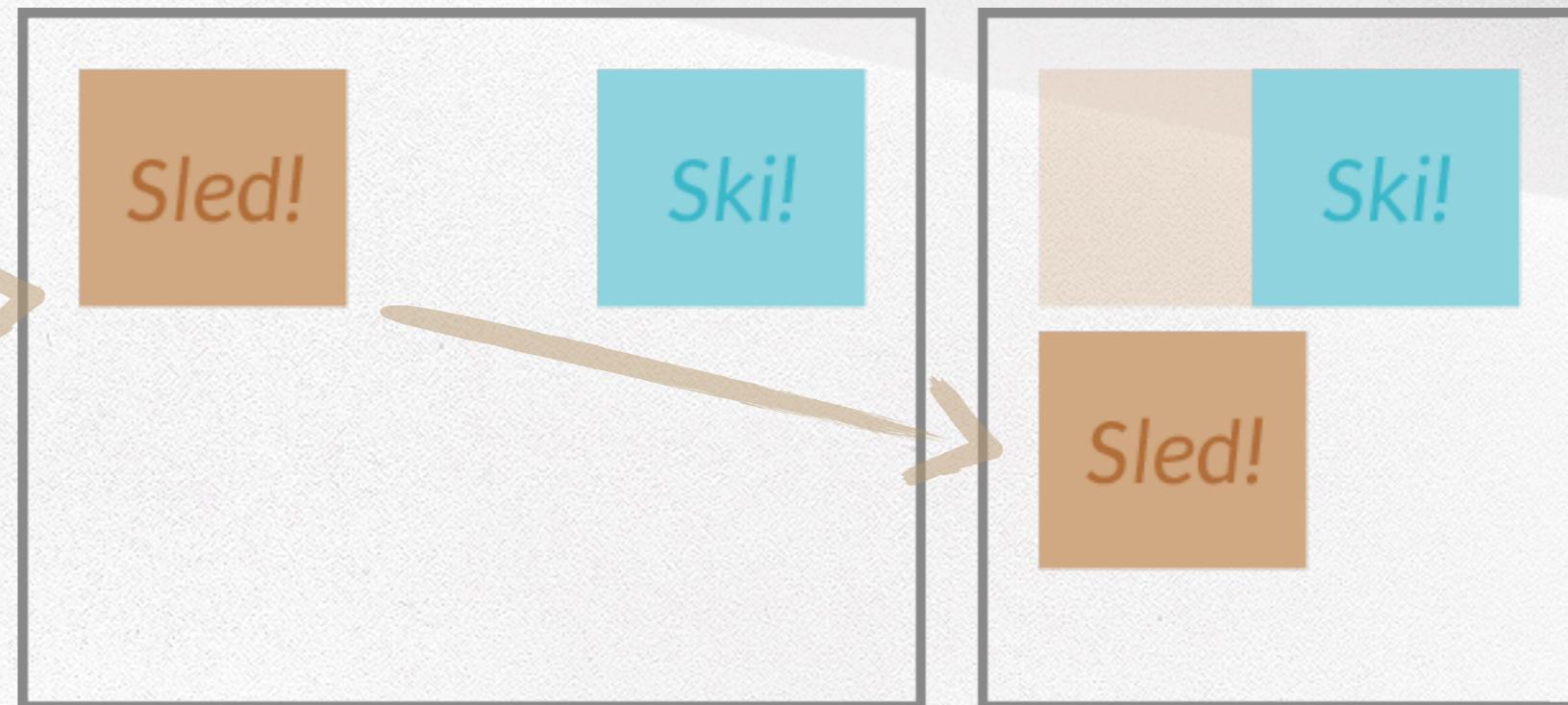
- Take care with elements that have differing heights - the first available edge isn't always below



# FLOATING LEFT & RIGHT

```
<article>
  
  
</article>
```

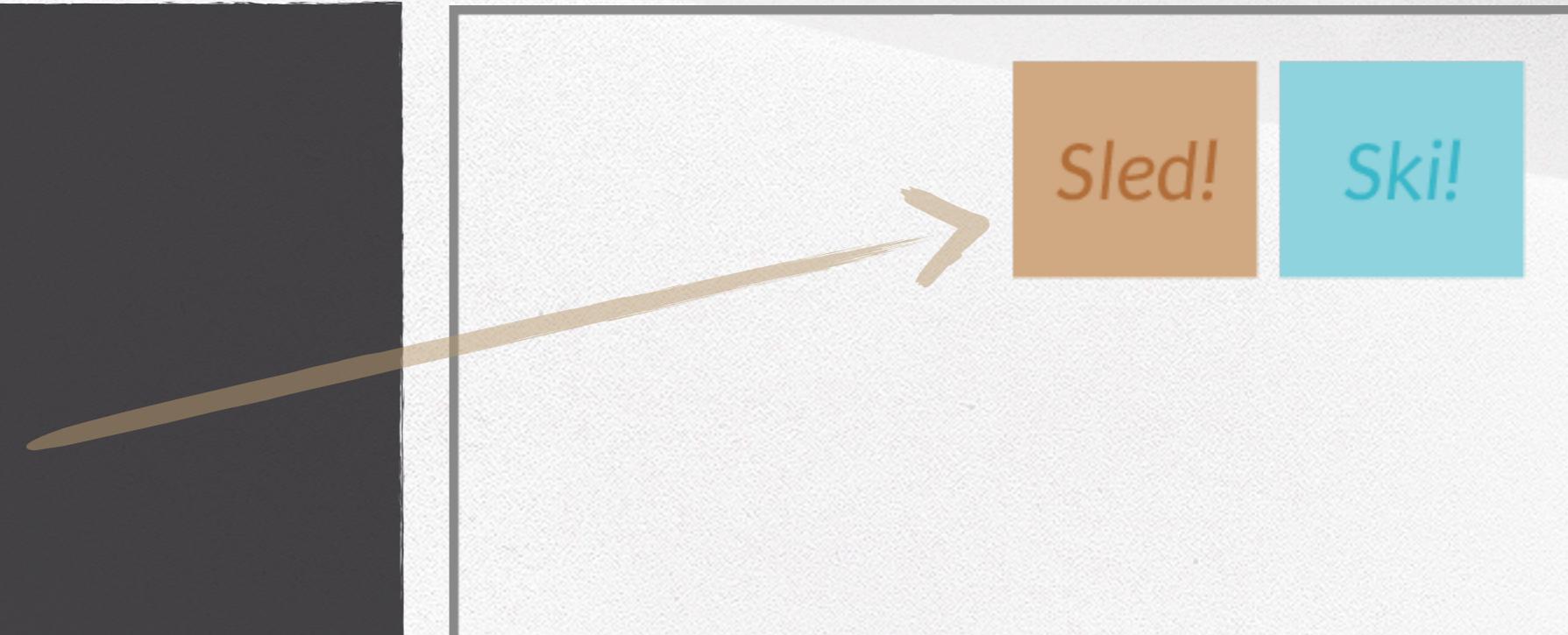
```
.ski {
  float: right;
}
.sled {
  float: left;
}
```



# FLOATING LEFT & RIGHT

```
<article>
  
  
</article>
```

```
.ski {
  float: right;
}
.sled {
  float: right;
}
```





- ✖ Download the slides
- ✖ Use the hints

**CLEAR  
CARVING**

# CLEAR CARVING

*Clearing Floats*

Inheritance & Specificity

# CLEARING FLOATS

*Clearing is necessary if:*

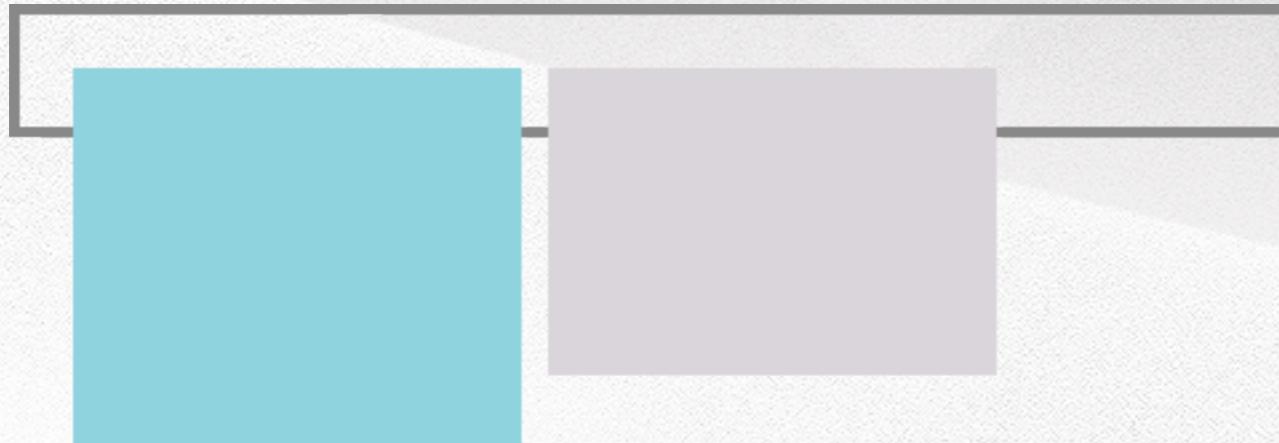
- ✗ Floated items can be taller than non-floated content



# CLEARING FLOATS

*Clearing is necessary if:*

- ✗ All children are floating



# CLEARING FLOATS

## *Common float-clearing methods:*

- ✗ Clear with a subsequent element
- ✗ Manual clearing
- ✗ The clearfix

```
clear: left / right / both
```

# CLEARING FLOATS

## Common float-clearing methods:

- ✗ Clear with a subsequent element

```
<div>
  
  <p>To successfully ski, simply do not fall.</p>
</div>
<div class="intro">
  <p>Whee!</p>
</div>
```

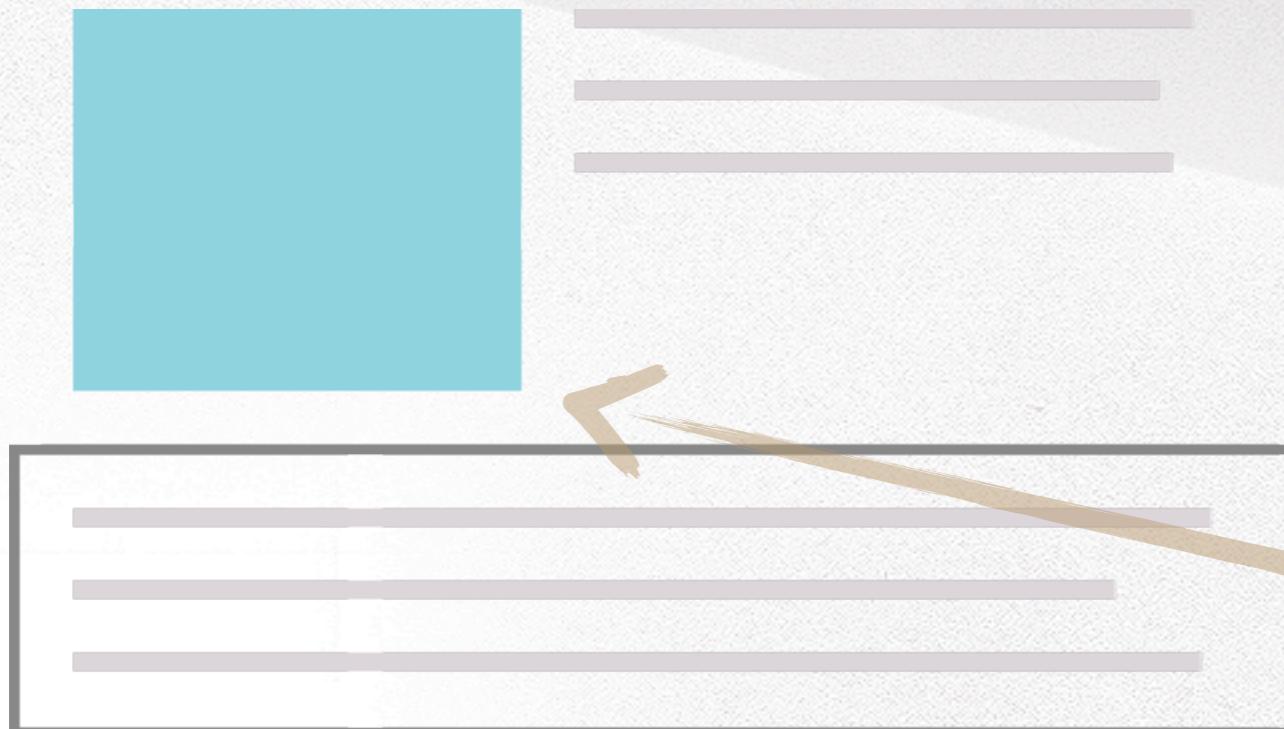
```
img {
  float: left;
}

.intro {
  clear: both;
}
```

# CLEARING FLOATS

## Common float-clearing methods:

- ✗ Clear with a subsequent element

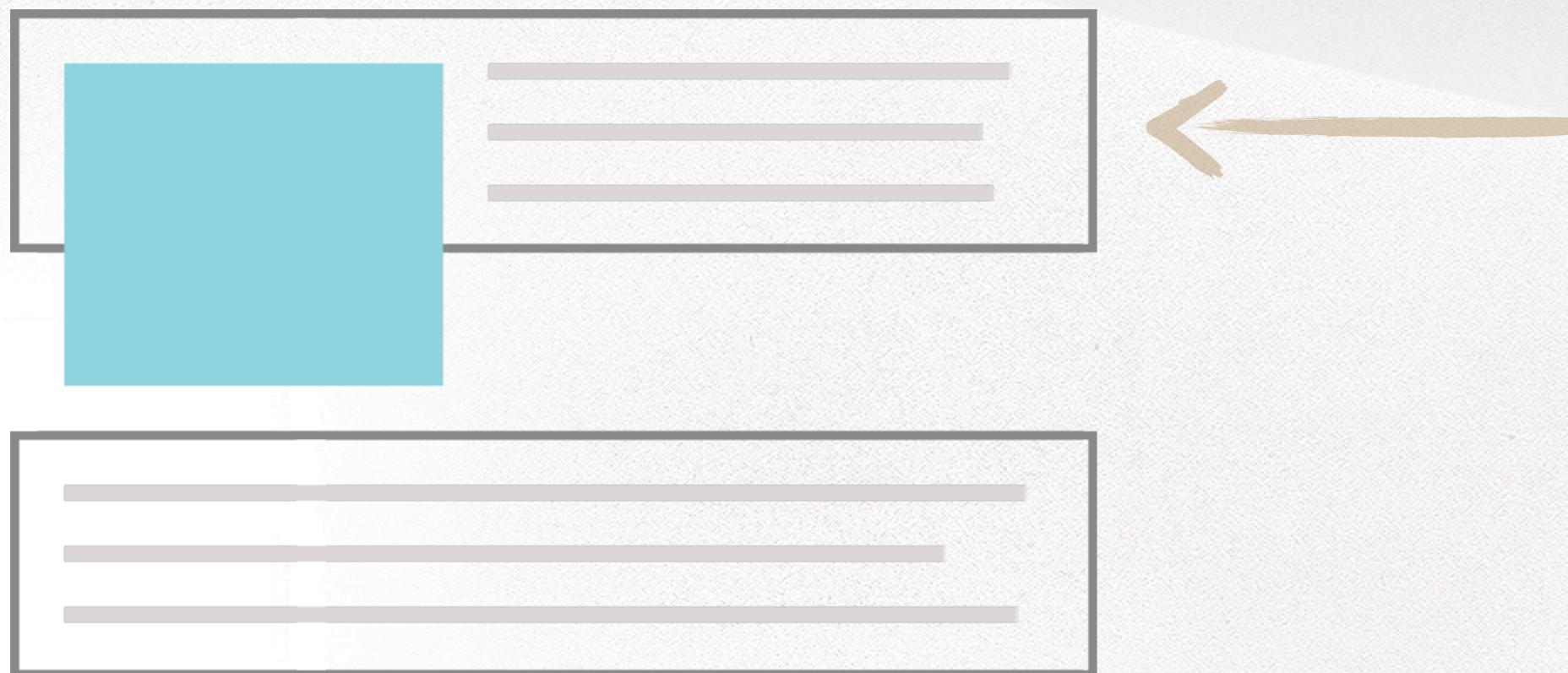


```
img {  
  float: left;  
}  
.intro {  
  clear: both;  
}
```

# CLEARING FLOATS

## Common float-clearing methods:

- ✗ Clear with a subsequent element
  - Requires sequence to stay intact - breaks if things move
  - Background / border do not extend



# CLEARING FLOATS

## Common float-clearing methods:

- ✗ Manual clearing

```
<div>
  
  <p>To successfully ski, simply do not fall.</p>
  <div class="clear"></div>
</div>
```

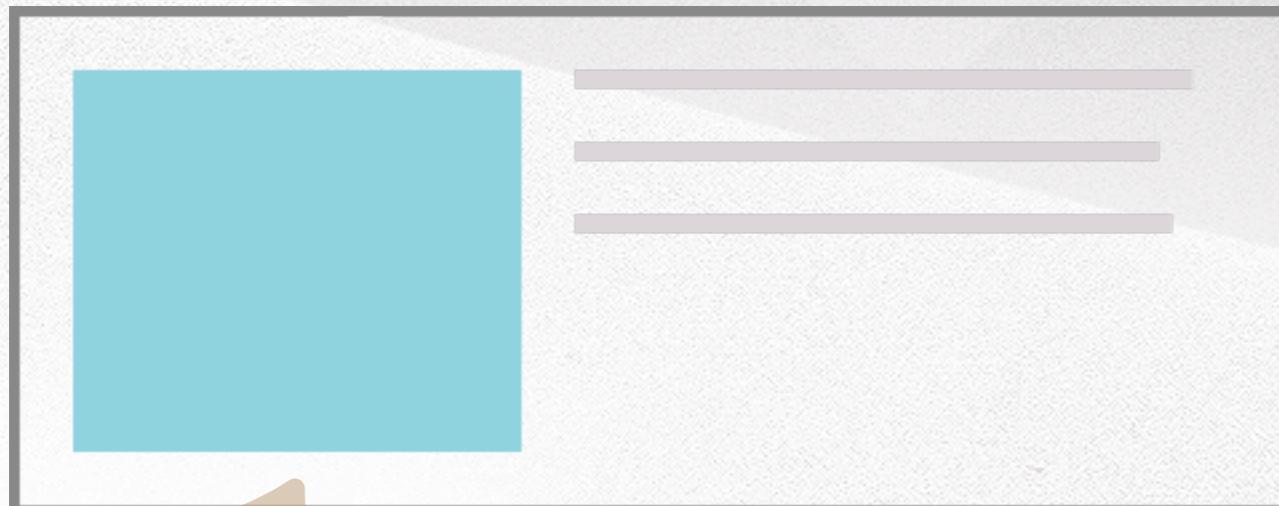


```
.clear {
  clear: both;
}
```

# CLEARING FLOATS

*Common float-clearing methods:*

- ✗ Manual clearing



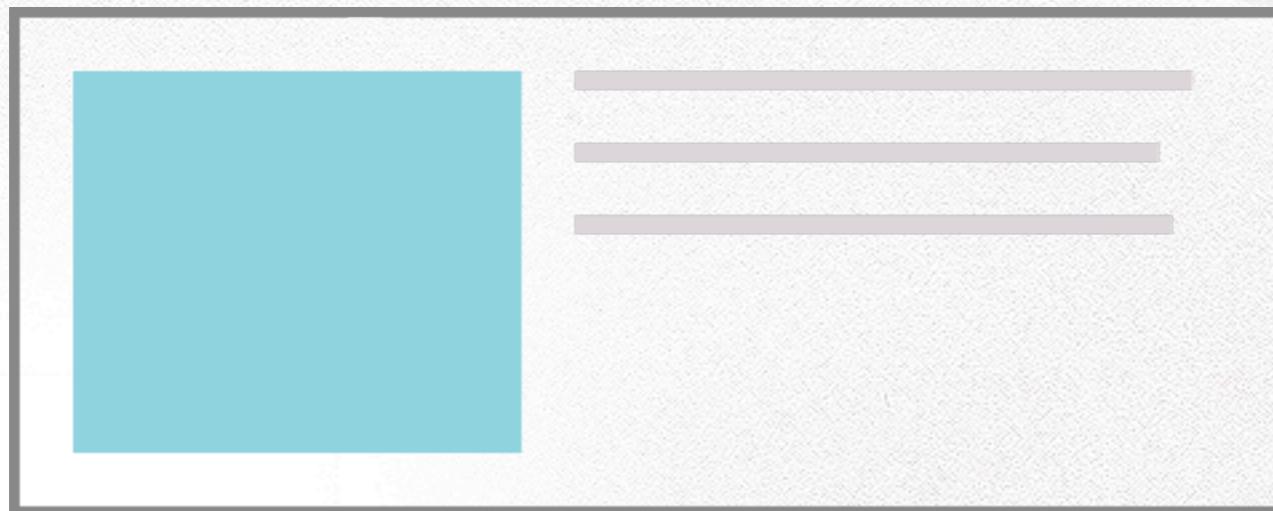
```
.clear {  
  clear: both;  
}
```

| 2 |

# CLEARING FLOATS

*Common float-clearing methods:*

- ✗ Manual clearing
  - Requires an empty element
  - Might not be necessary later



# CLEARING FLOATS

## Common float-clearing methods:

- ✗ The clearfix

```
.group:before,  
.group:after {  
  content: "";  
  display: table;  
}  
.group:after {  
  clear: both;  
}  
.group {  
  zoom: 1; /* IE6&7 */  
}
```

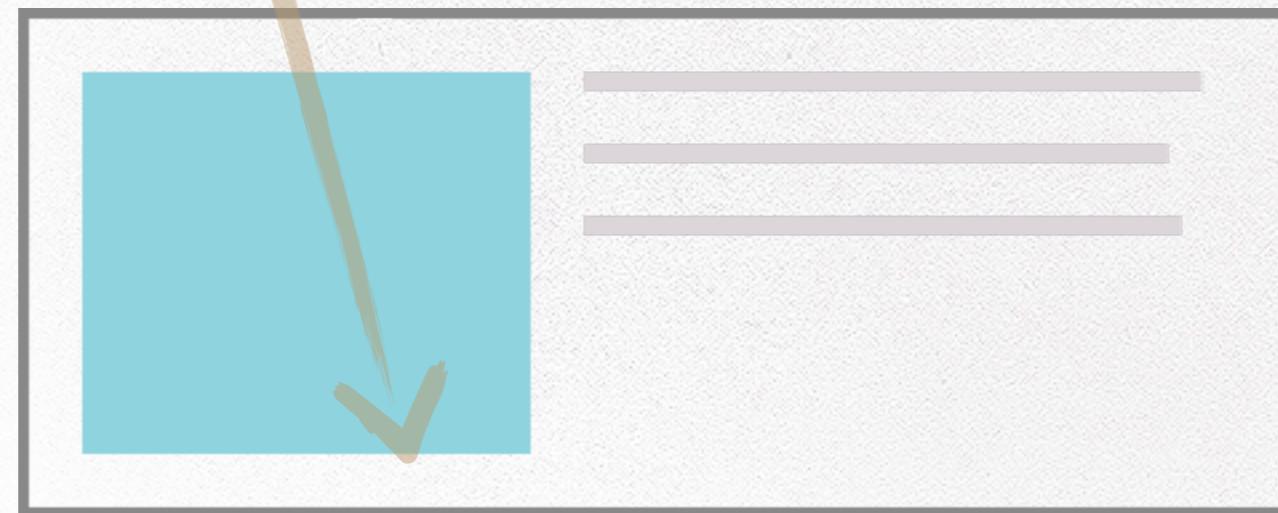
- Originally developed by Tony Aslett
- Refined version by Nicholas Gallagher
- When used on the parent, the children will be self-cleared

# CLEARING FLOATS

## Common float-clearing methods:

- ✗ The clearfix

```
<div class="group">
  
  <p>To successfully ski, simply do not fall.</p>
</div>
```



# CLEAR CARVING

Clearing Floats

*Inheritance & Specificity*

| 2 |



# INHERITANCE & SPECIFICITY

*Nested elements automatically inherit parent styles:*

```
<article class="featured">  
  <p>Dang, it's cold up here!</p>  
</article>
```

```
.featured {  
  color: #aba4ac;  
}
```



*the paragraph content above  
will inherit this color*

# INHERITANCE & SPECIFICITY

*Selectors can be nested to override parent properties:*

```
<article class="featured">  
  <p>Dang, it's cold up here!</p>  
</article>
```

```
.featured {  
  color: #0000ff;  
}  
.featured p {  
  color: #ffff;  
}
```

*nesting the element selector  
overrides the color on .featured*

# INHERITANCE & SPECIFICITY

*Dealing with specificity:*

```
<div id="content" class="featured">  
  <p>Break out the cocoa.</p>  
</div>
```

```
#content {  
  color: #555;  
}  
.featured {  
  color: #ccc;  
}
```

# INHERITANCE & SPECIFICITY

*The priority of a selector (specificity):*

*inline styles?*

0 , 0 ,  
↓ ↑

*# of ID selectors*

*# of class selectors*

0 , 0  
↓ ↑

*# of element selectors*

# INHERITANCE & SPECIFICITY

```
p { color: #fff; }
```

0, 0, 0, 1

```
.intro { color: #98c7d4; }
```

0, 0, 1, 0

```
#header { color: #444245; }
```

0, 1, 0, 0

```
<h1 style="color: #000;">Mogul</h1>
```

1, 0, 0, 0

```
p { color: #fff !important; }
```



| 2 |

# INHERITANCE & SPECIFICITY

```
.intro p.article { color: #fff; }
```

0,0,2,1

```
.intro ul li.active { color: #98c7d4; }
```

0,0,2,2

```
#header { color: #444245; }
```

0,1,0,0

## STICKING TO CLASSES

Learn more about why using IDs sparingly will decrease complexity:

[Link #1](#)

| 2 |



# INHERITANCE & SPECIFICITY

*Dealing with specificity:*

```
<section id="content">
  <p class="featured">Free coffee with ski rental.</p>
  <p>Choose from 48 different ski colors.</p>
</section>
```

```
#content p {          0, 1, 0, 1
  color: #000;
}
.featured {          0, 0, 1, 0
  color: #777;
}
```



| 2 |

# INHERITANCE & SPECIFICITY

*Dealing with specificity:*

```
<section id="content">
  <p class="featured">Free coffee with ski rental.</p>
  <p>Choose from 48 different ski colors.</p>
</section>
```

```
#content p {
  color: #000;
}
.featured {
  color: #777 !important;
}
```



| 2 |

# INHERITANCE & SPECIFICITY

*Dealing with specificity:*

```
<section id="content">
  <p class="featured">Free coffee with ski rental.</p>
  <p>Choose from 48 different ski colors.</p>
</section>
```

```
#content p {          0 , 1 , 0 , 1
  color: #000;
}
#content .featured { 0 , 1 , 1 , 0
  color: #777;
}
```





CROSS X COUNTRY

# BOX BINDINGS

3

# BOX BINDINGS

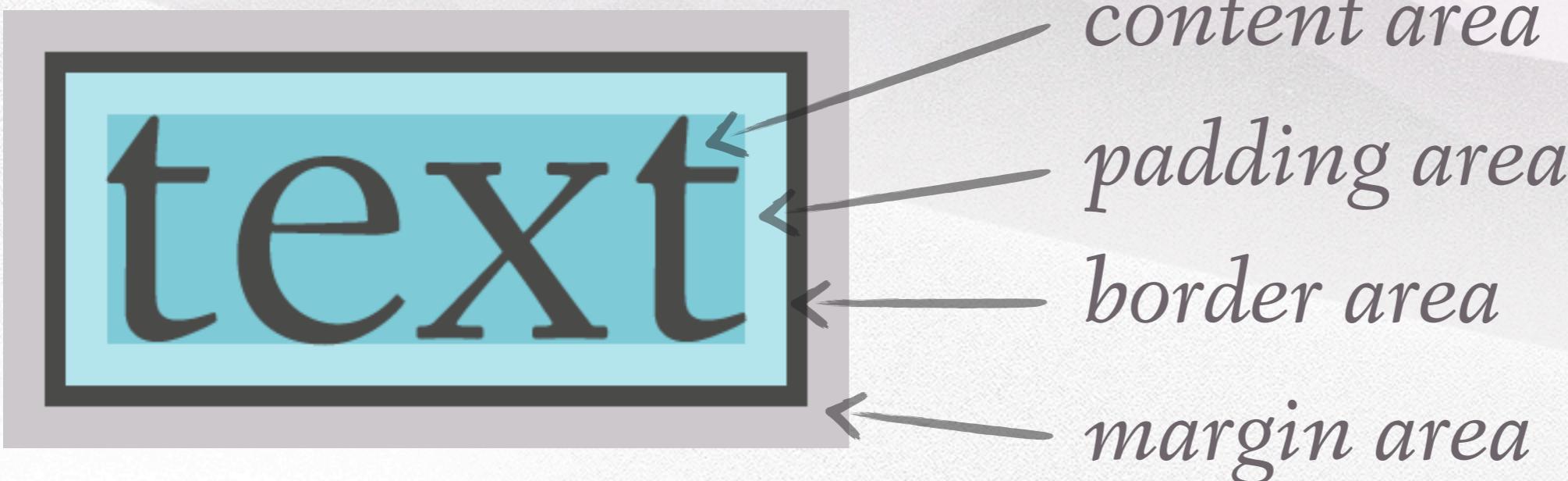
*The Box Model*

Positioning

Z-Index

# THE BOX MODEL

An *imaginary diagram* that outlines each DOM element:



# THE BOX MODEL

## Width:

- × Total calculated box width =  
content width + padding width + border width

```
.downhill {  
    border: 5px solid #fff;  
    padding-left: 10px;  
    padding-right: 5px;  
    width: 100px;  
}
```



100px *content width*

15px *padding width*

+ 10px *border width*

---

125px *box width*



# THE BOX MODEL

## Width:

- When adapting a design, you'll need to calculate the content width

```
.downhill {  
  border: 1px solid #fff;  
  padding-left: 14px;  
  padding-right: 14px;  
  width: ? }  
  ↙
```

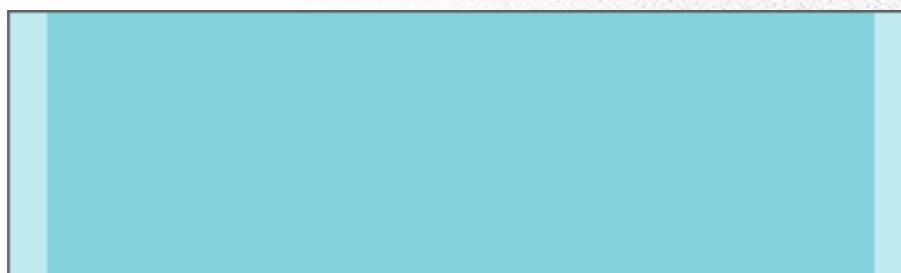
340px *box width (design)*

28px *padding width*

- 2px *border width*

---

310px *content width*



# THE BOX MODEL

*The overflow property:*

```
overflow: visible / auto / hidden / scroll
```

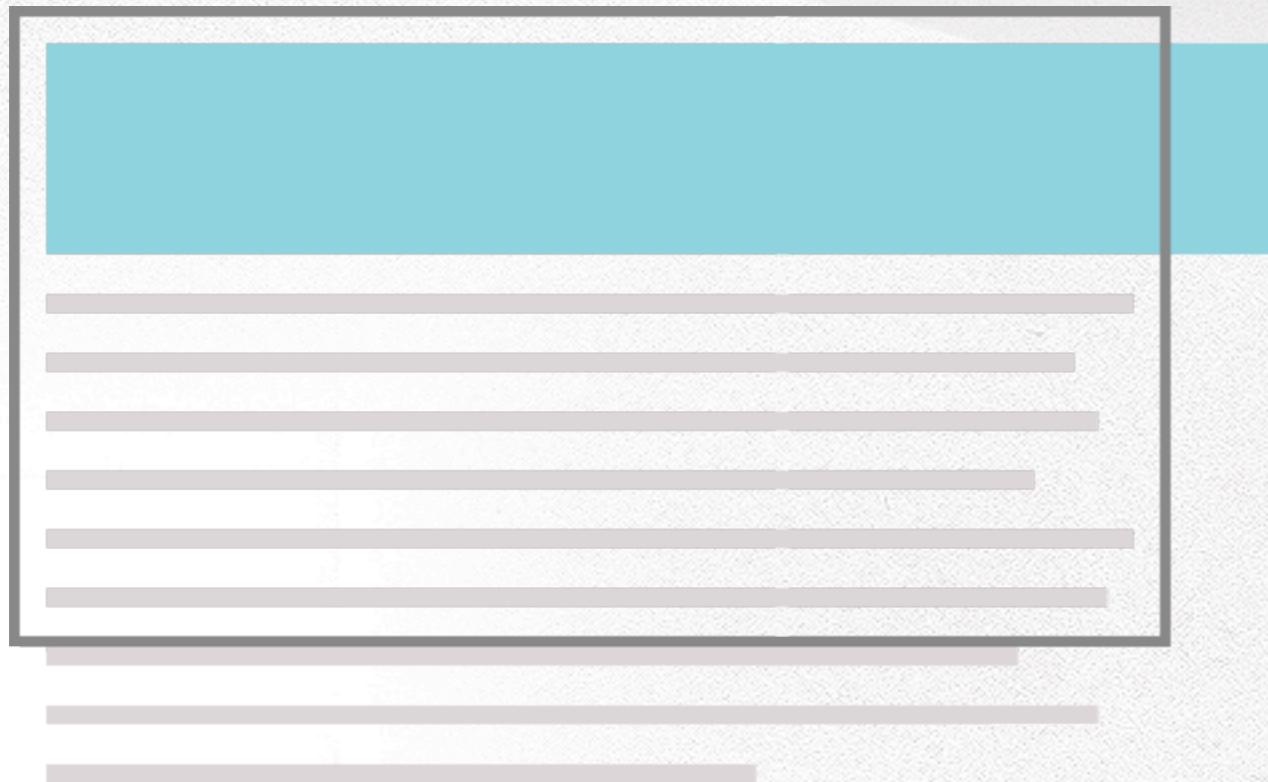
| 3 |



# THE BOX MODEL

## *The overflow property:*

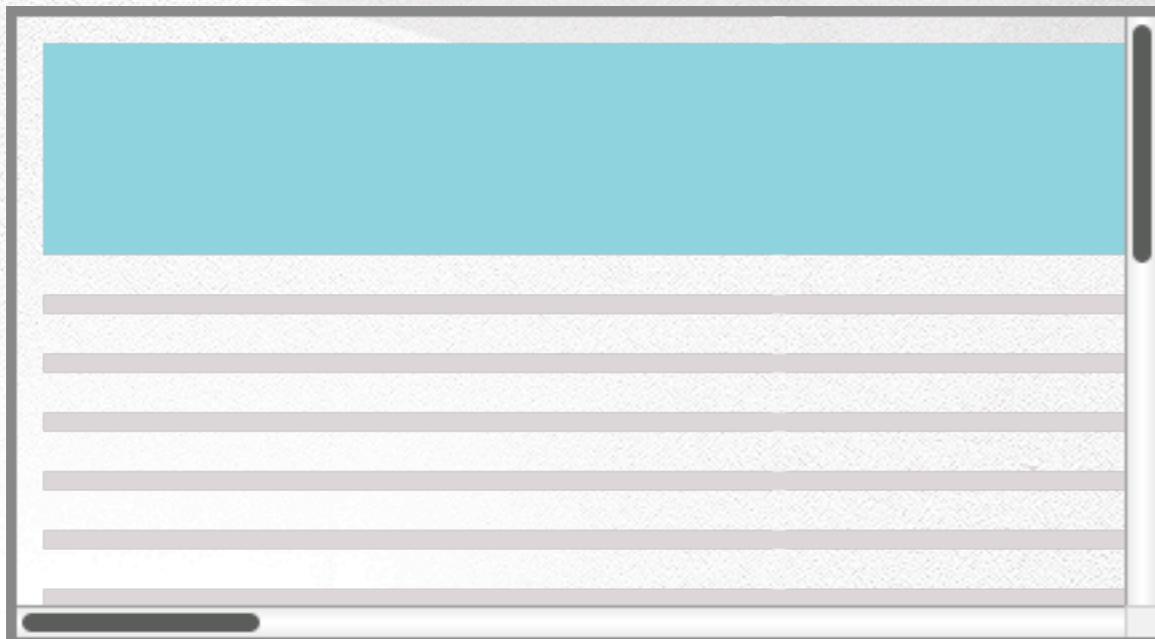
- ✖ visible - the default value, which allows content to extend beyond container boundaries



# THE BOX MODEL

## *The overflow property:*

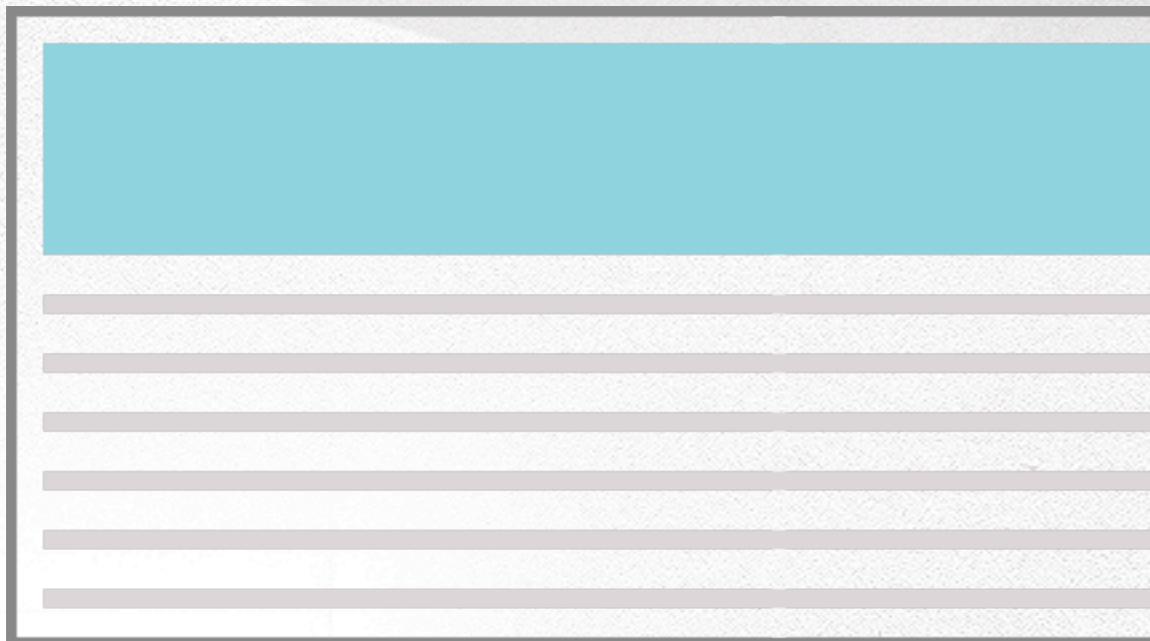
- ✖ auto - adds a scrollbar as needed when content overflows



# THE BOX MODEL

## *The overflow property:*

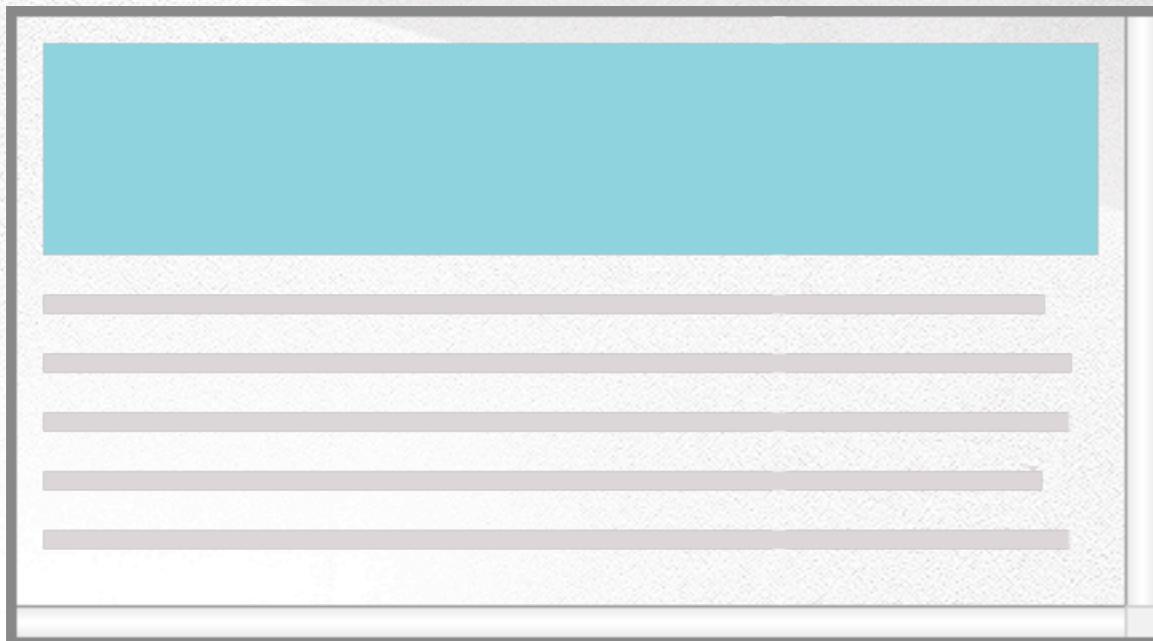
- ✖ hidden - hides content that extends beyond the container



# THE BOX MODEL

## *The overflow property:*

- ✗ scroll - adds a scrollbar at all times, even if unneeded



# BOX BINDINGS

The Box Model

*Positioning*

Z-Index

# POSITIONING

*Elements have a position value of static by default:*

position: static / relative / absolute / fixed

- ✖ Using a value other than static causes an object to become a *positioned element*
- ✖ Positioned elements may use the top, left, bottom, and right properties for placement

# POSITIONING

## Relative positioning:

- ✖ Renders in the normal flow, then shifted via positioning properties

```
<article>
  <h2>Sven's SnowshoeX2</sup></h2>
</article>
```

```
sup {
  font-size: 75%;
  line-height: 0;
  vertical-align: baseline;
  position: relative;
  top: -0.5em;
}
```

Link #1

Sven's SnowshoeX<sup>2</sup>



# POSITIONING

## Absolute positioning:

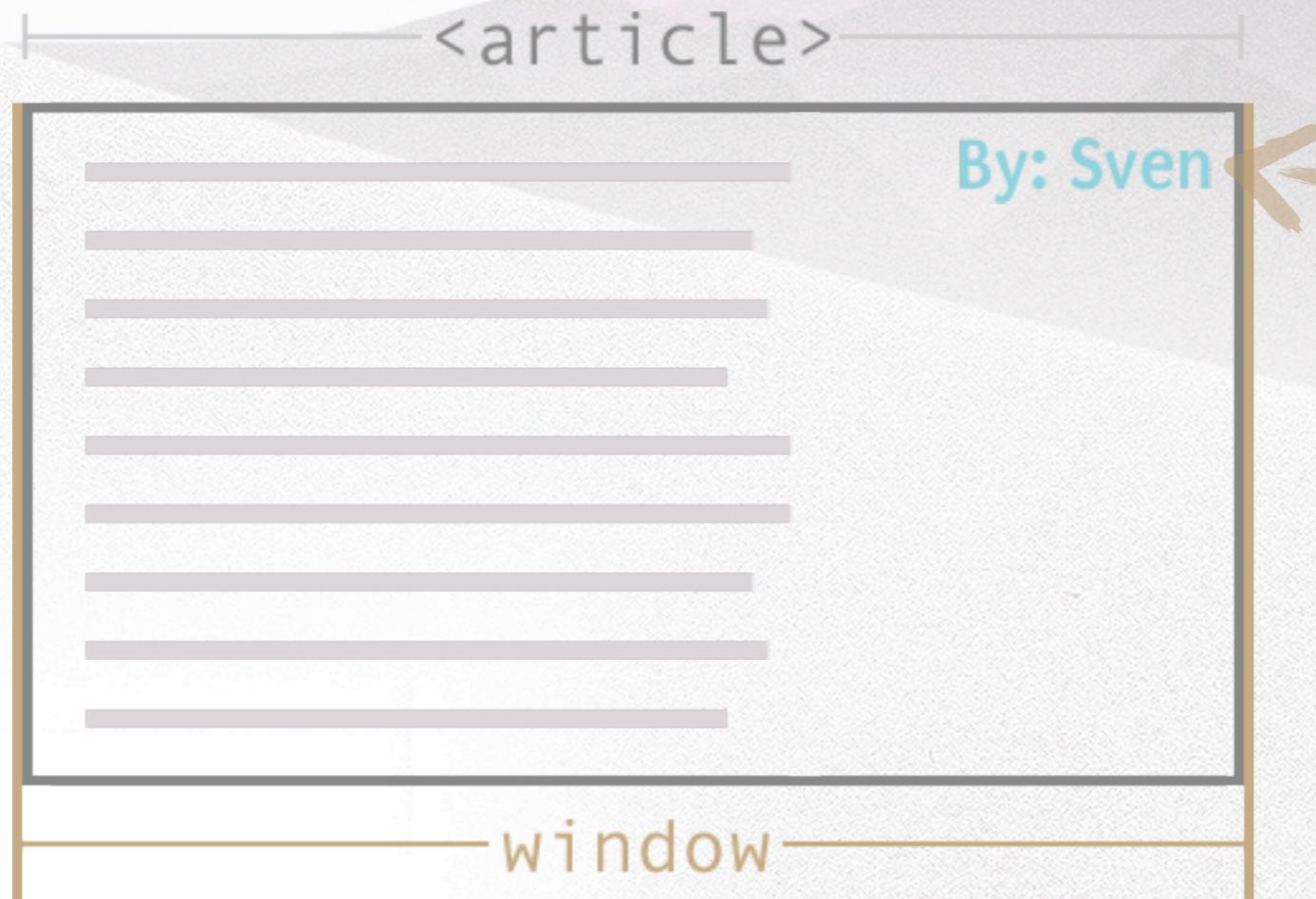
- × Takes an element out of the normal flow for manual positioning

```
<article>
  <h2>New Snowshoes</h2>
  <h3>By: Sven</h3>
  <p>This season's hot styles, available now!</p>
</article>
```

```
h3 {
  position: absolute;
  right: 10px;
  top: 10px;
}
```

# POSITIONING

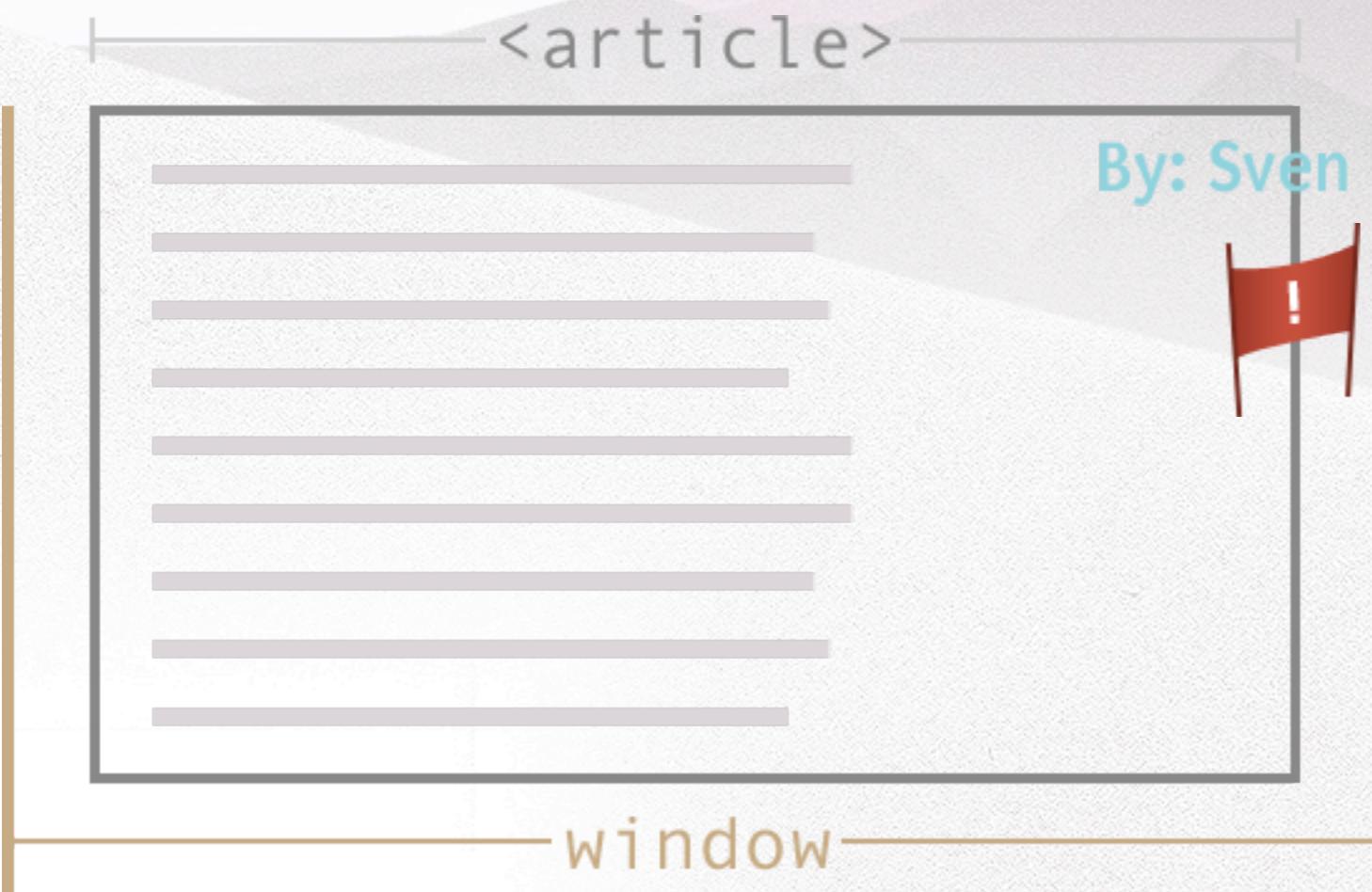
## Absolute positioning:



```
h3 {  
    position: absolute;  
    right: 10px;  
    top: 10px;  
}
```

# POSITIONING

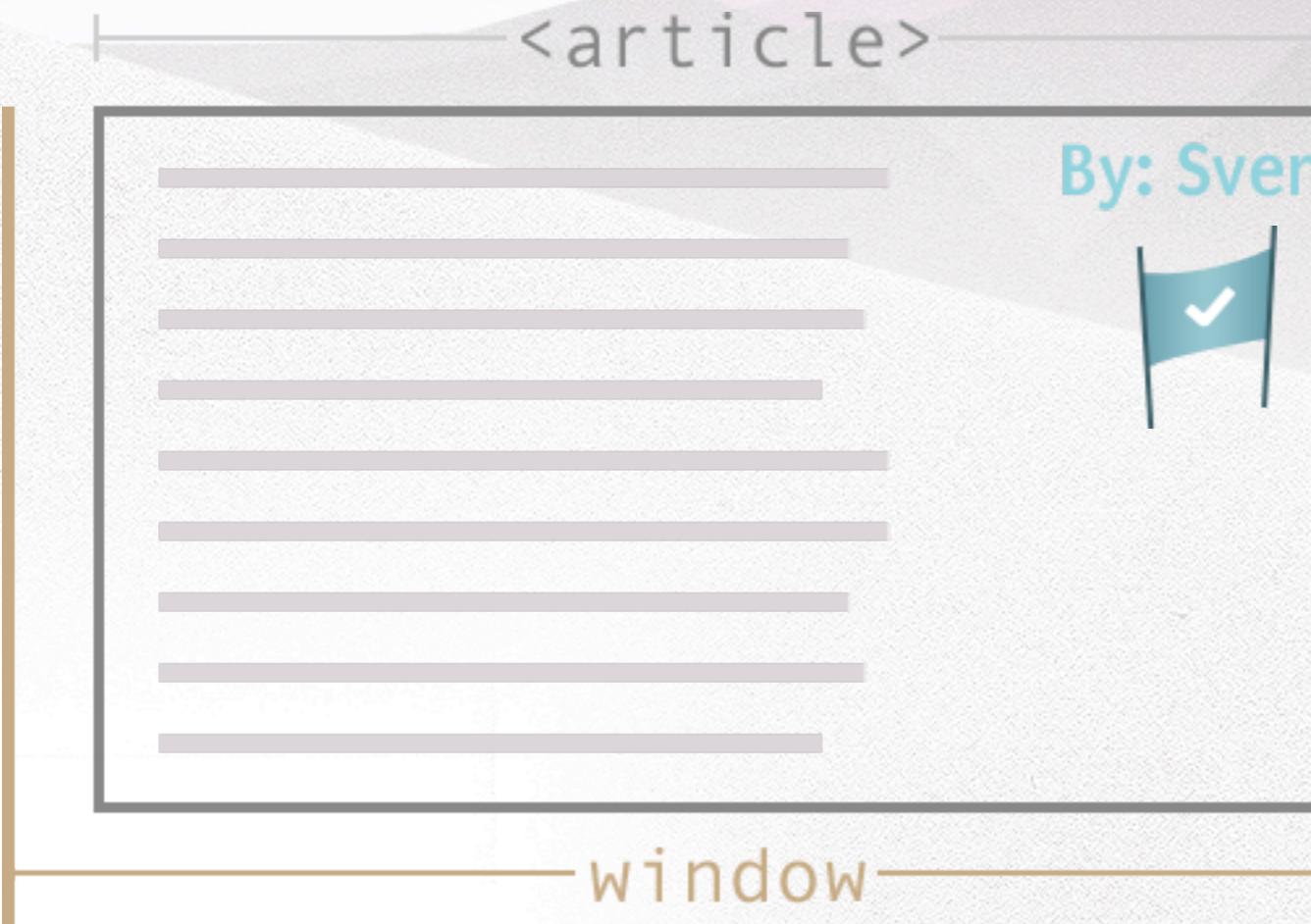
## Absolute positioning:



```
h3 {  
    position: absolute;  
    right: 10px;  
    top: 10px;  
}
```

# POSITIONING

## Absolute positioning:



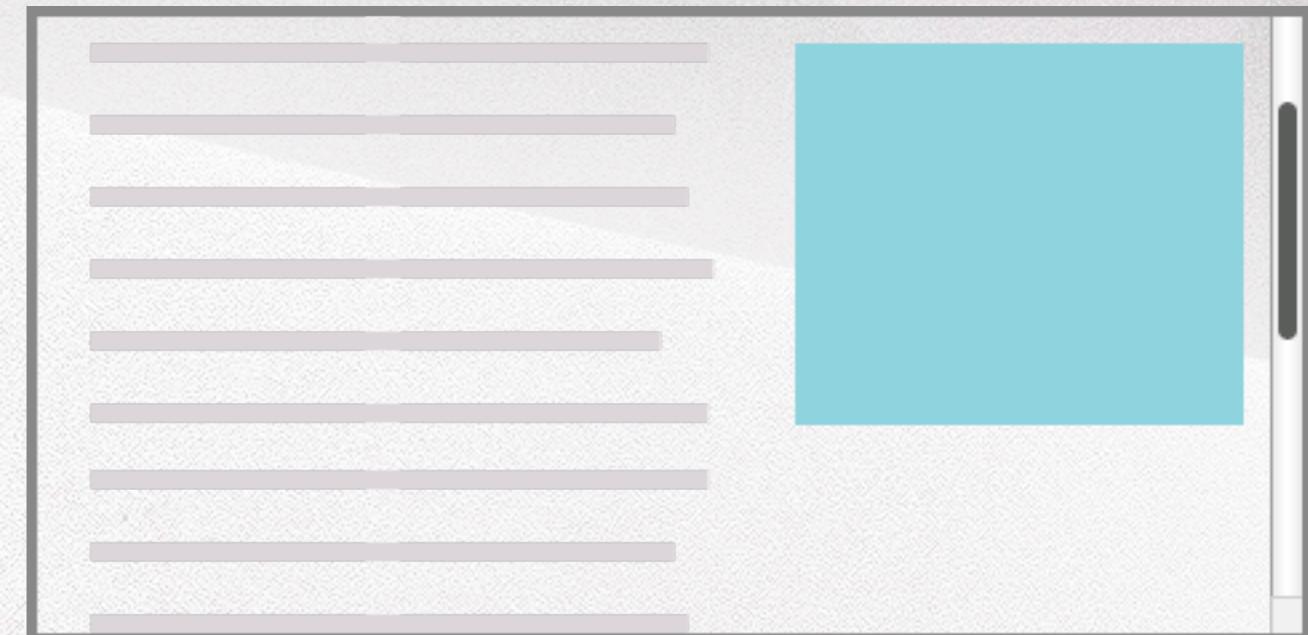
```
article {  
  position: relative;  
}  
h3 {  
  position: absolute;  
  right: 10px;  
  top: 10px;  
}
```

# POSITIONING

## *Fixed positioning:*

- × Affixes an element to a specific place in the window, where it will stay regardless of scrolling

```
.ski {  
  position: fixed;  
  right: 10px;  
  top: 10px;  
}
```



# BOX BINDINGS

The Box Model

Positioning

*Z-Index*

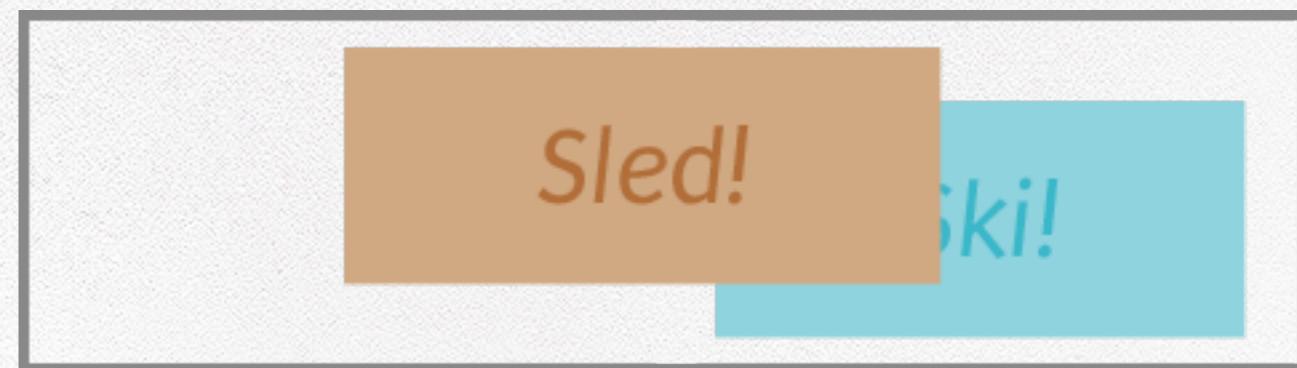
# Z-INDEX

## Manually adjusting overlap:

- ✗ No z-index or equal z-index = overlap determined by placement in DOM

```
<article>
  
  
</article>
```

```
.ski, .sled {
  z-index: 1;
}
```



# Z-INDEX

## *Manually adjusting overlap:*

- ✗ Higher values appear above lower values

```
<article>
  
  
</article>
```

```
.ski {
  z-index: 1;
}
```



# Z-INDEX

## *Manually adjusting overlap:*

- ✗ Elements must be positioned for z-index to take effect. Use relative if you're not interested in moving the object

### STACKING ORDER

Learn more about how floats, positioning and z-index stacks:

[Link #2](#)

| 3 |





CROSS COUNTRY

# GROOMING YOUR CODE

# GROOMING YOUR CODE

*Staying DRY*

Display Types

Centering

# STAYING DRY

*D - Don't*

*R - Repeat*

*Y - Yourself*

# STAYING DRY

*Suppose you want to include a font property in a number of text-related elements:*

```
<body>
  <div class="container">
    <h1>Sven's Snowshoe Superstore</h1>
    <p>Our snowshoes are so stylish!</p>
    <a class="sale" href="/sale">View our sales</a>
  </div>
</body>
```

# STAYING DRY

```
h1 {  
    font-family: Arial, sans-serif;  
}  
p {  
    font-family: Arial, sans-serif;  
}  
.sale {  
    font-family: Arial, sans-serif;  
}
```

```
body {  
    font-family: Arial, sans-serif;  
}
```

```
<body>  
    <div class="conta  
        > <h1>Sven's Snow  
        > <p>Our snowshoes  
        > <a class="sale"  
    </div>  
</body>
```

# STAYING DRY

*You can also target another parent element:*

```
.container {  
    font-family: Arial, sans-serif;  
}
```

```
<body>  
    <div class="container">  
        <h1>Sven's Snowshoe Superstore</h1>  
        <p>Our snowshoes are so stylish!</p>  
        <a class="sale" href="/sale">View our sales</a>
```

# STAYING DRY

*Selector combination:*

```
p {  
    font-size: 12px;  
}
```

```
.ski_lift {  
    font-size: 12px;  
}
```

```
h6 {  
    font-size: 12px;  
}
```

```
p, .ski_lift, h6 {  
    font-size: 12px;  
}
```

# STAYING DRY

## Selector abstraction:

```
.submit { border: 1px solid #000; cursor: pointer;  
text-transform: uppercase;  
}  
  
.next_button { border: 1px solid #000; cursor: pointer;  
text-transform: uppercase;  
}
```

!

```
<input type="submit" class="submit" />  
<a href="next_page.html" class="next_button" >Next</a>
```

# STAYING DRY

*DRY this up by abstracting the CSS declarations into one class:*

```
.button { border: 1px solid #000; cursor: pointer;  
text-transform: uppercase;  
}
```

```
<input type="submit" class="button"/>  
<a href="next_page.html" class="button">Next</a>
```

# STAYING DRY

*What if the buttons are only mostly the same?*

```
.button {  
background: #fff;  
border: 1px solid #000;  
color: #333;  
cursor: pointer;  
}
```

```
<input type="submit" class="button" />  
<a href="next_page.html" class="button">Next</a>
```

# STAYING DRY

```
.button {  
    background: #fff;  
    border: 1px solid #000;  
    color: #333;  
    cursor: pointer;  
}  
.submit {  
    background: #555;  
}
```

*order  
matters  
here*

```
<input type="submit" class="button submit" />  
<a href="next_page.html" class="button">Next</a>
```

# STAYING DRY

## Style shorthand - margin:

```
.ski_poles { margin-top: 15px; margin-left: 20px;  
margin-right: 10px; margin-bottom: 0; }
```

!

Can be re-written as:

```
.ski_poles {  
    margin: 15px 10px 0 20px; /* top right bottom left */  
}
```



✓

# STAYING DRY

*Top - Right - Bottom - Left:*

```
.ski_poles {  
    margin: 15px 10px 0 20px; /* top right bottom left */  
}
```

# STAYING DRY

## *Selected CSS property shorthands:*

```
font: italic bold 16px/18px sans-serif;  
/* style weight size/line-height family */  
  
background: #000 url(image.jpg) no-repeat center top;  
/* color image repeat x-pos y-pos */  
  
list-style: disc inside none;  
/* style position image */  
  
margin or padding: 0 10px 0 10px / 0 10px 0 / 0 10px;  
/* top right bottom left / top right&left bottom / top&bottom right&left */  
  
border: 3px solid #ccc;  
/* width style color */
```

# GROOMING YOUR CODE

Staying DRY

*Display Types*

Centering

| 4 |



# DISPLAY TYPES

*Display:*

```
display: none / block / inline / inline-block
```

# DISPLAY TYPES

```
<div class="container">
  <h1>Sven's Snowshoe Superstore</h1>
  <p>Our snowshoes are so stylish!</p>
  <a class="sale" href="/sale">View our sales</a>
</div>
```

```
.sale {
  float: left;
  width: 100%;
  padding: 0 10px;
  margin: 5px 0;
  text-align: center;
}
```

**Sven's Snowshoe Superstore**

Our snowshoes are so stylish!

[View our sales](#)

# DISPLAY TYPES

```
<div class="container group">
  <h1>Sven's Snowshoe Superstore</h1>
  <p>Our snowshoes are so stylish!</p>
  <a class="sale" href="/sale">View our sales</a>
</div>
```

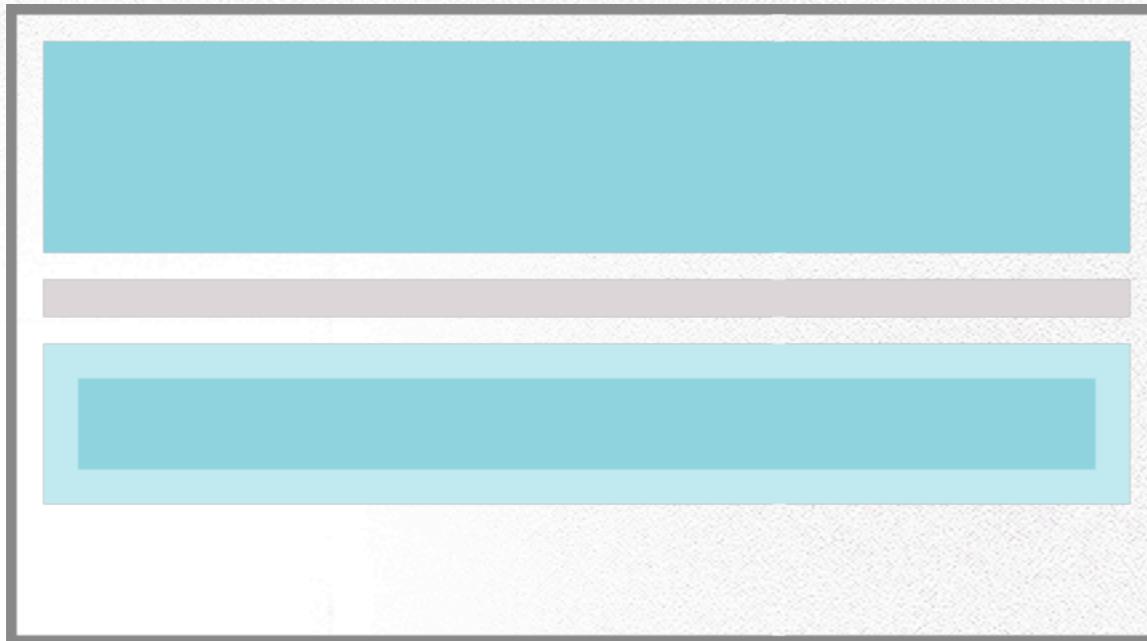
```
.sale {
  float: left;
  width: 100%;
  padding: 0 10px;
  margin: 5px 0;
  text-align: center;
}
```



# DISPLAY TYPES

## Block elements:

- × Stretch the full width of their container
- × Behave as though there is a line break before and after the element
- × Full box model can be manipulated



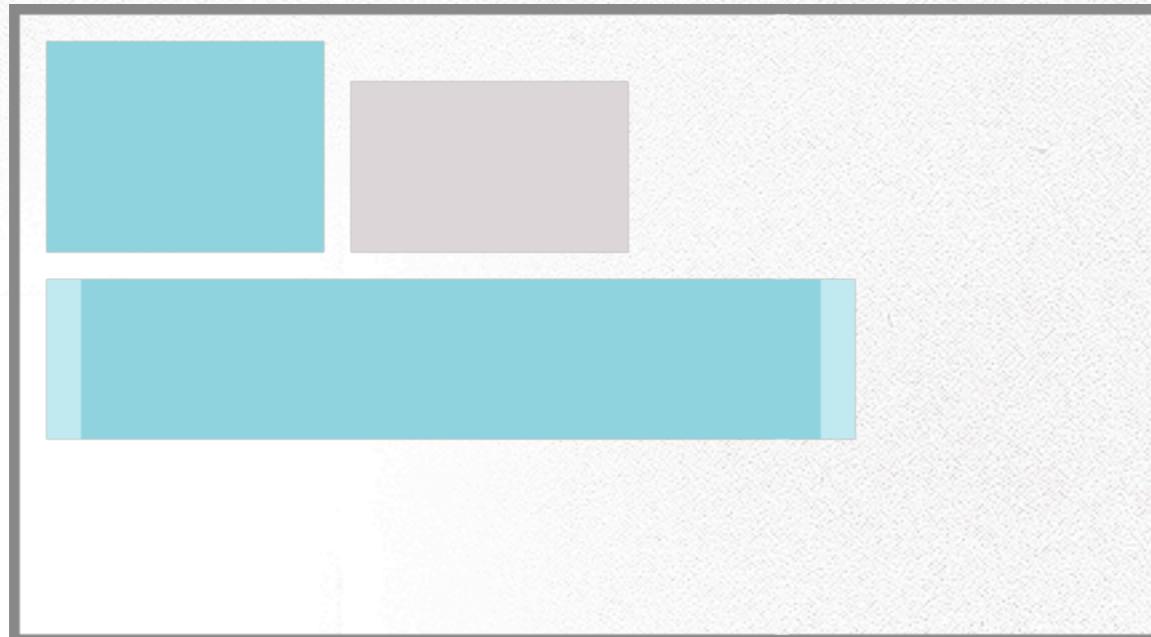
### BLOCK ELEMENTS

Tags that are block-level by default:  
`<div>`, `<p>`, `<ul>`, `<ol>`, `<li>` and  
`<h1>` through `<h6>`.

# DISPLAY TYPES

## Inline elements:

- × Typically found within block-level elements
- × Only take up the space of the content inside
- × Do not generate a line break before and after the content



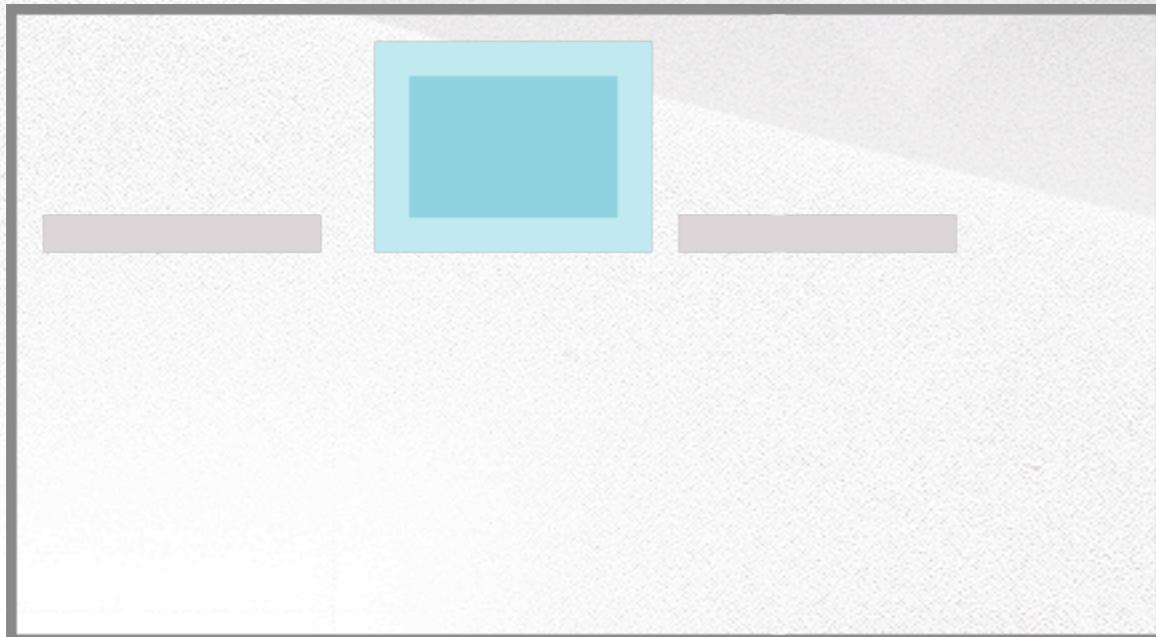
### INLINE ELEMENTS

Tags that are inline by default include `<span>`, `<a>`, `<em>`, `<img>`, and `<strong>`.

# DISPLAY TYPES

## Inline-block

- ✗ Same flow as an inline element but behave as a block element



# DISPLAY TYPES

```
<div class="container group">
  <h1>Sven's Snowshoe Superstore</h1>
  <p>Our snowshoes are so stylish!</p>
  <a class="sale" href="/sale">View our sales</a>
</div>
```

```
.sale {
  float: left;
  width: 100%;
  padding: 0 10px;
  margin: 5px 0;
  text-align: center;
}
```



# DISPLAY TYPES

```
<div class="container">
  <h1>Sven's Snowshoe Superstore</h1>
  <p>Our snowshoes are so stylish!</p>
  <a class="sale" href="/sale">View our sales</a>
</div>
```

```
.sale {
  display: block;
  padding: 0 10px;
  margin: 5px 0;
  text-align: center;
}
```



# GROOMING YOUR CODE

Staying DRY

Display Types

*Centering*

# CENTERING

*Centering a block-level element:*

← 125px →

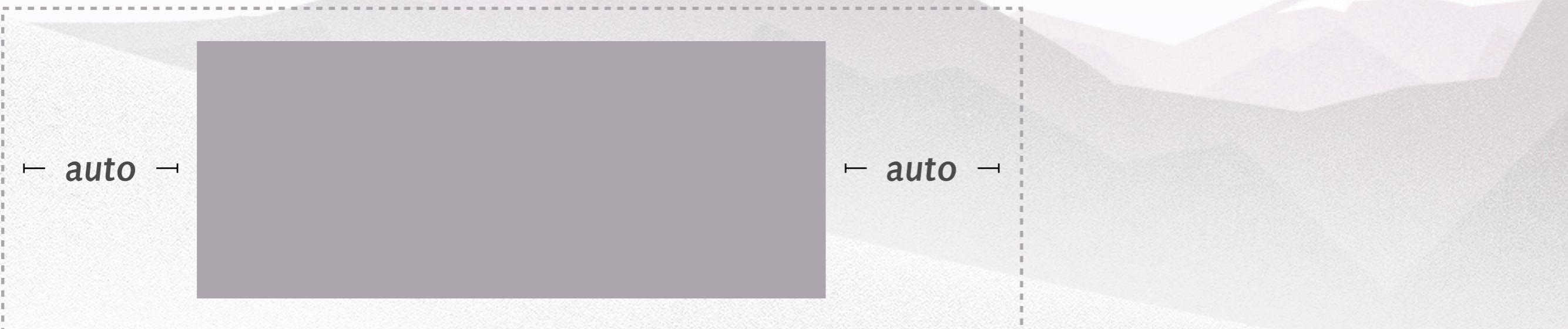


← 125px →



# CENTERING

## *Centering a block-level element:*



- ✗ Define a width, and the element width must be less than that of the parent container
- ✗ `margin: 0 auto;`

| 4 |

# CENTERING

*Centering inline and inline-block elements:*



✗ `text-align:center`

| 4 |





CROSS X COUNTRY

**CSS  
SAFETY**

# CSS SAFETY

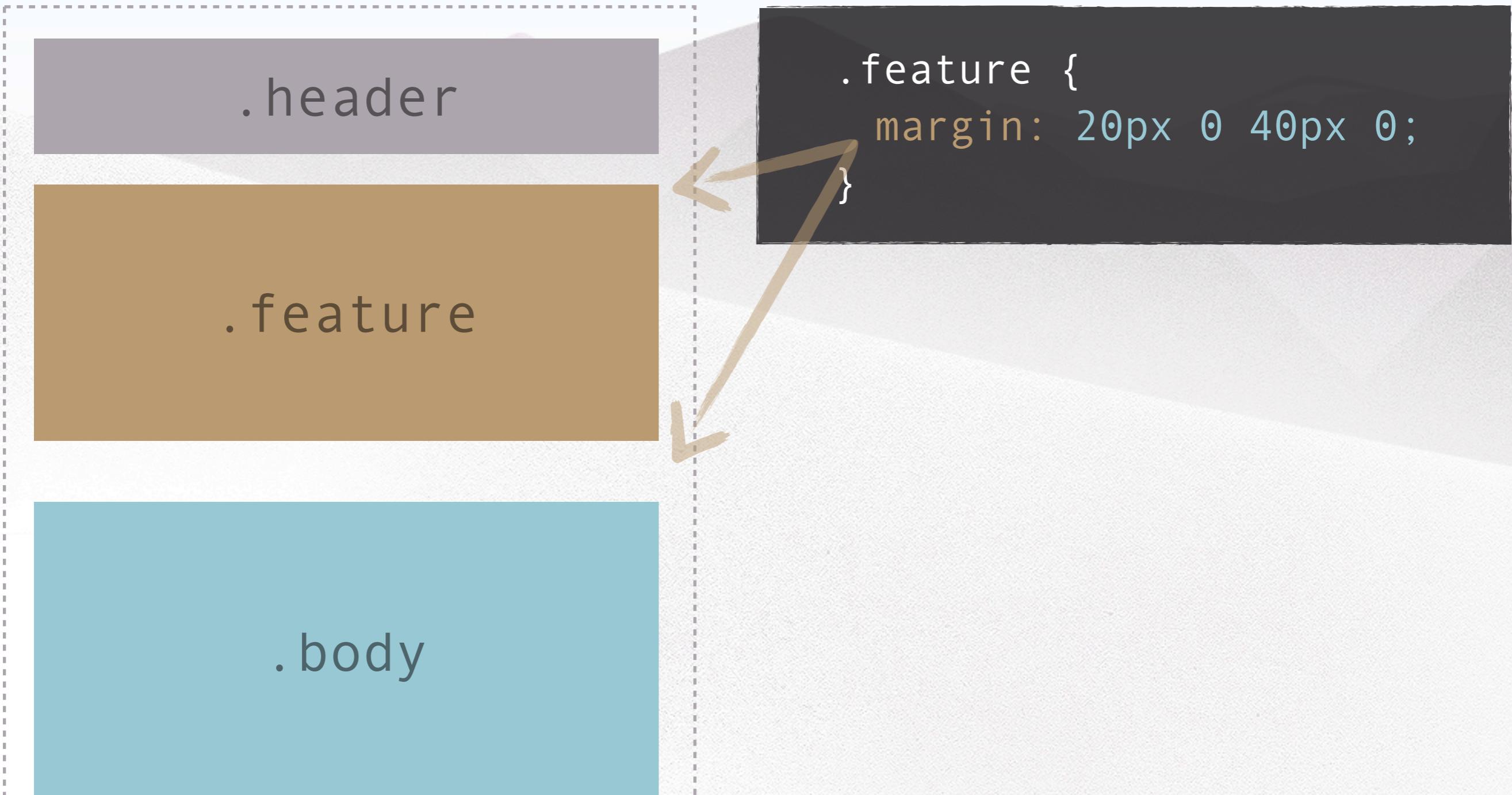
*Protecting Your Layout*

## Specificity Problems

| 5 |



# PROTECTING YOUR LAYOUT



# PROTECTING YOUR LAYOUT

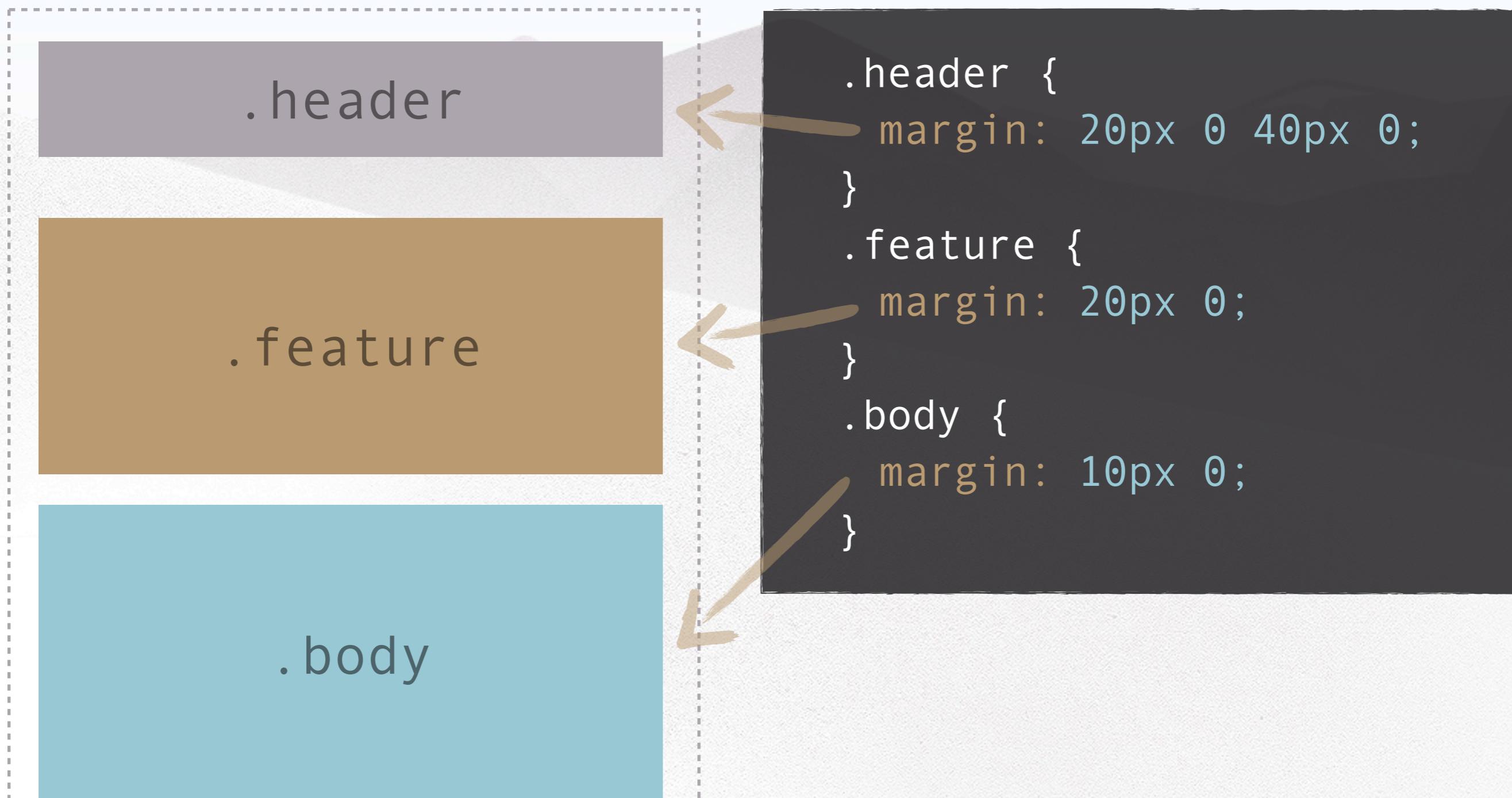
.header

!

.body

```
.feature {  
  margin: 20px 0 40px 0;  
}
```

# PROTECTING YOUR LAYOUT



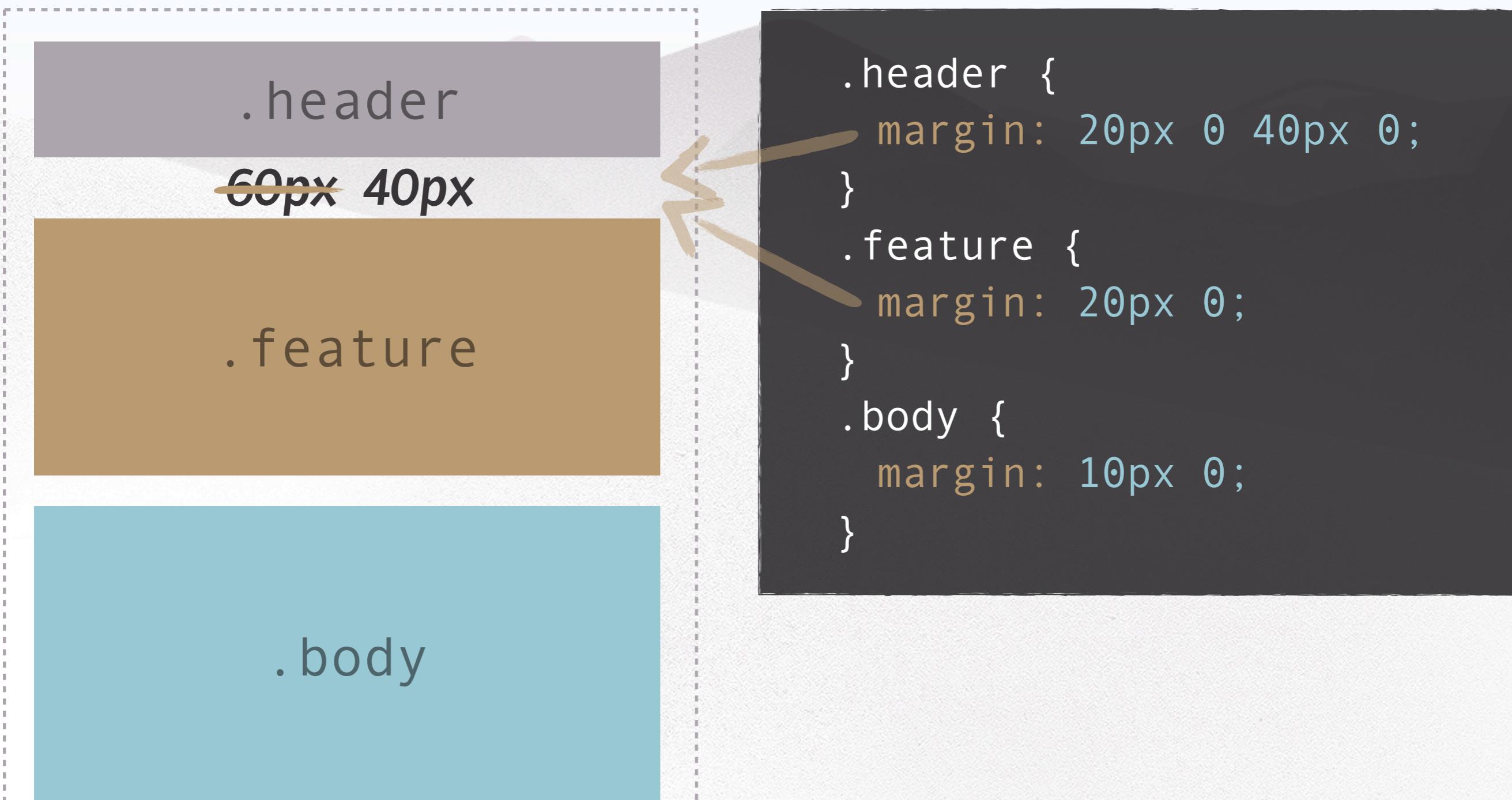
# PROTECTING YOUR LAYOUT

.header

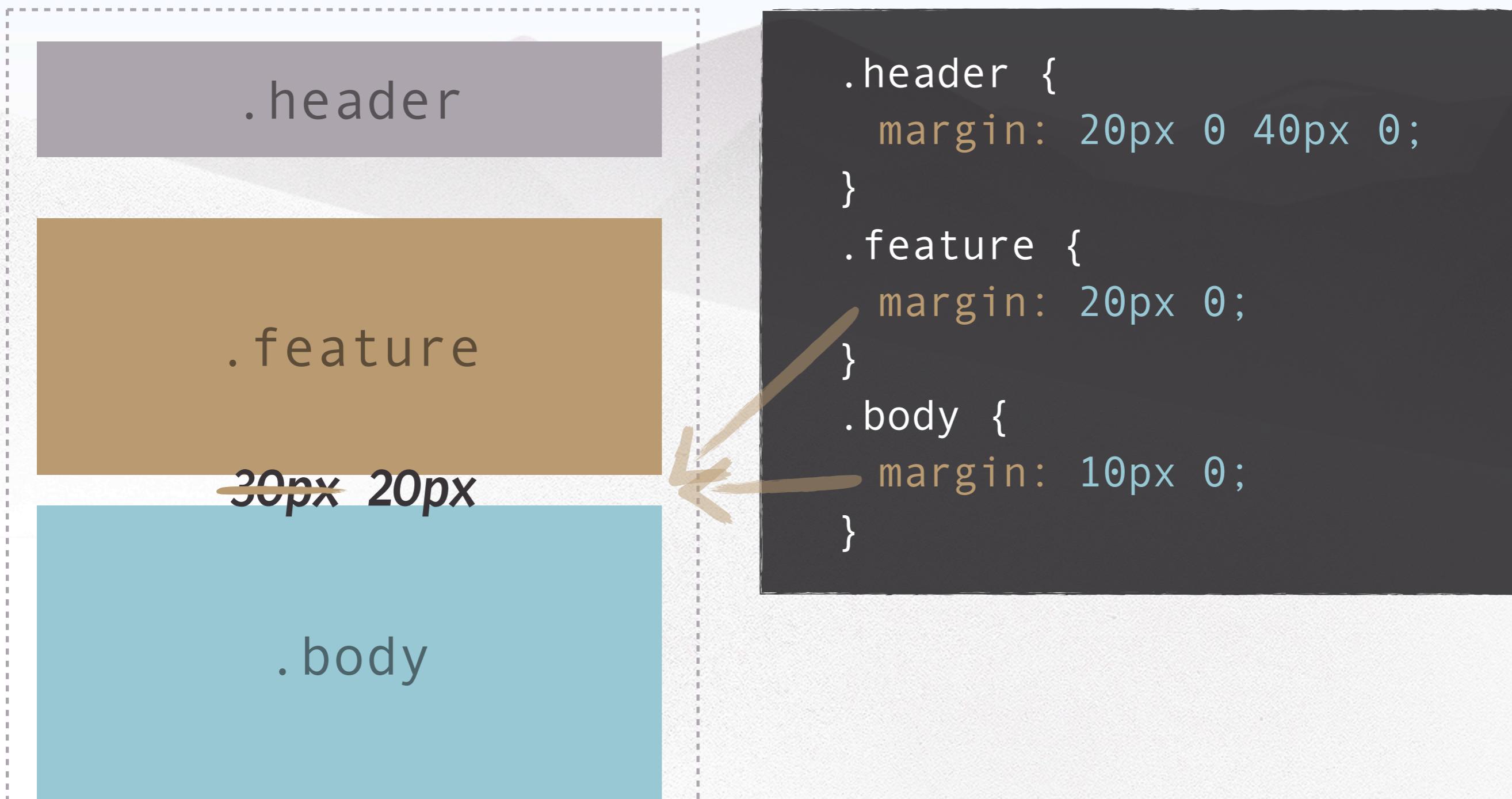
.body

```
.header {  
  margin: 20px 0 40px 0;  
}  
.feature {  
  margin: 20px 0;  
}  
.body {  
  margin: 10px 0;  
}
```

# PROTECTING YOUR LAYOUT



# PROTECTING YOUR LAYOUT



# PROTECTING YOUR LAYOUT

.header

.feature

.body

```
.header {  
  margin: 20px 0 40px 0;  
}  
.feature {  
  margin: 20px 0;  
}  
.body {  
  margin: 10px 0;  
}
```



# PROTECTING YOUR LAYOUT

*Collapsing margins will not occur when one or more block element has:*

- ✗ Padding or border
- ✗ Relative or absolute positioning
- ✗ A float left or right

## COLLAPSING MARGINS

See the spec for more info:

[Link #1](#)

| 5 |



# CSS SAFETY

Protecting Your Layout

*Specificity Problems*

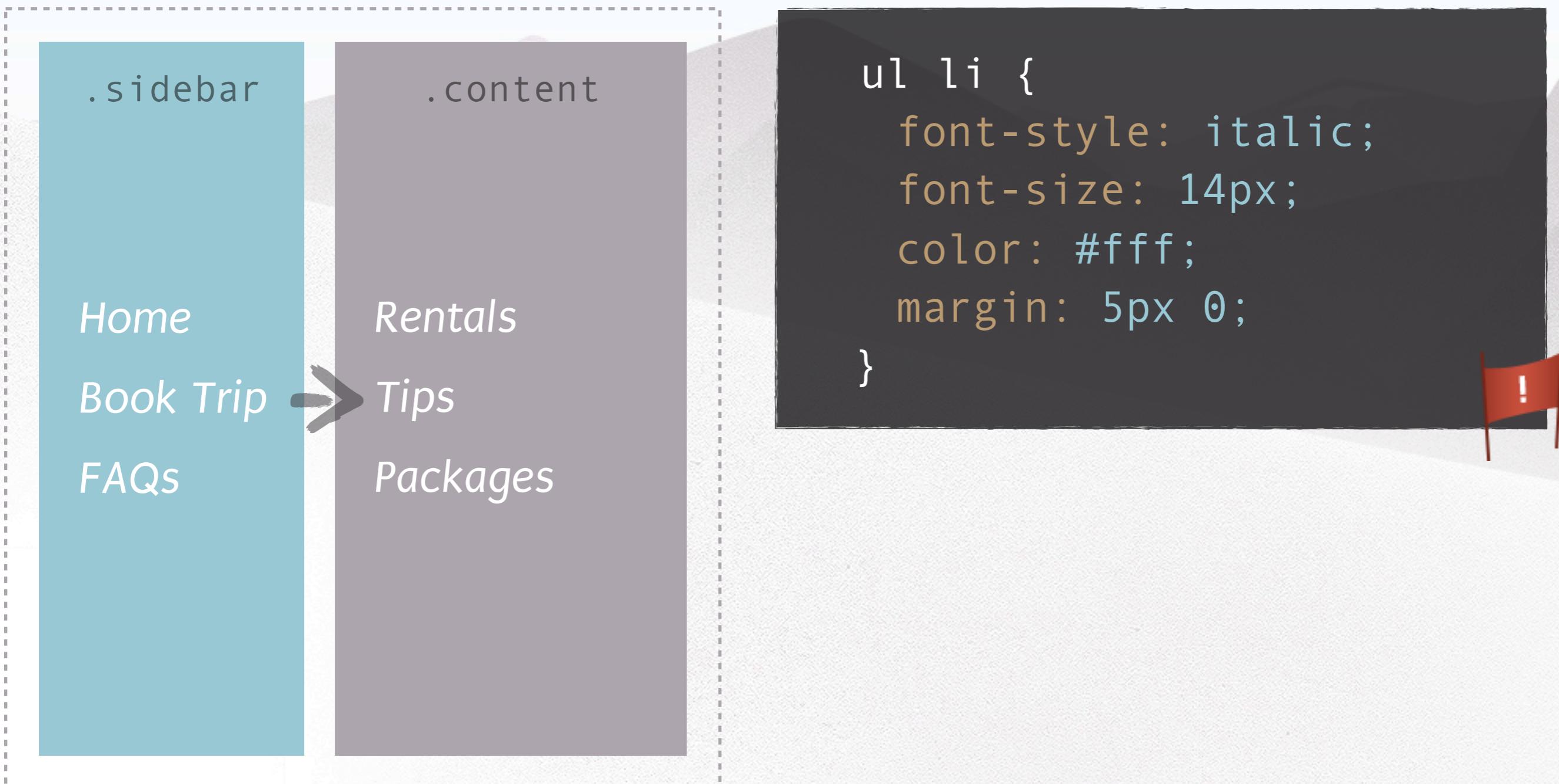
| 5 |



# SPECIFICITY PROBLEMS



# SPECIFICITY PROBLEMS



# SPECIFICITY PROBLEMS

.sidebar

ul.featured

*Home*

*Book Trip*

*FAQs*

.content

ul.featured

*Rentals*

*Tips*

*Packages*

```
.featured li {  
    font-style: italic;  
    font-size: 14px;  
    color: #fff;  
    margin: 5px 0;  
}
```



# SPECIFICITY PROBLEMS

.sidebar

ul.featured

*Home*

*Book Trip*

*FAQs*

.content

ul.featured

*Rentals*

*Tips*

*Packages*

```
.featured li {  
    font-style: italic;  
    font-size: 14px;  
    color: #fff;  
    margin: 5px 0;  
}  
ul li {  
    font-size: 12px;  
    margin: 3px 0;  
}
```



# SPECIFICITY PROBLEMS

## Resets & normalization:

- ✗ Eric Meyer's Reset CSS: [Link #2](#)
- ✗ Normalize.css: [Link #3](#)



CROSS COUNTRY

# IMAGE ISSUES

# IMAGE ISSUES

## *Image Use*

### Image Cropping

| 6 |



# IMAGE USE

*Layout or content?*

```
<h4>Rental Products</h4>
<ul>
  <li class="snowmobile"></li>
</ul>
```



```
.snowmobile li {
  background: url(snowmobile.jpg);
  height: 300px;
  width: 400px;
}
```

# IMAGE USE

*Write it as an inline image instead:*

```
<h4>Rental Products</h4>
<ul>
  <li></li>
</ul>
```



# IMAGE USE

```
<h1>Feel the rhythm, feel the rhyme, get on up, it's  
bobsled time!</h1>  

```

!

| 6 |



# IMAGE USE

*Better as a background image:*

```
<h1>Feel the rhythm, feel the rhyme, get on up, it's  
bobsled time!</h1>
```

```
h1 {  
background: url(divider.jpg);  
margin-bottom: 10px;  
padding-bottom: 10px;  
}
```



# IMAGE USE

## Review:

- ✗ Content should be marked up as inline images
- ✗ Layout elements should be defined as background images

| 6 |



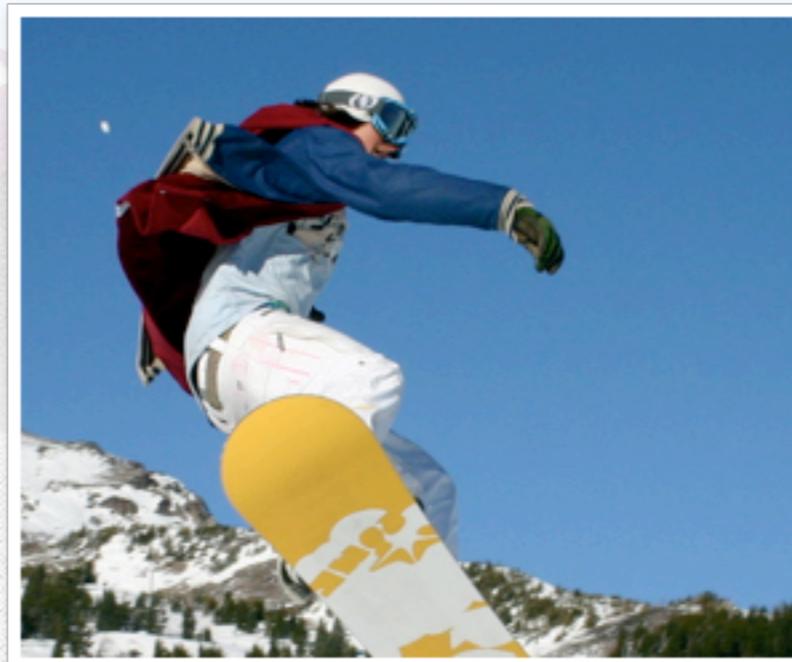
# IMAGE ISSUES

Image Use

*Image Cropping*

# IMAGE CROPPING

# IMAGE CROPPING



| 6 |

*images courtesy: <http://sxc.hu/profile/shortands>*

# IMAGE CROPPING

```
.rental img {  
    height: 300px;  
    width: 400px;  
}
```



6



# IMAGE CROPPING



# IMAGE CROPPING

## Overflow crop method:

```
<h4>Rental Products</h4>
<ul class="rental">
  <li class="crop">
    
  </li>
</ul>

.crop {
  height: 300px;
  width: 400px;
  overflow: hidden;
}
```

# IMAGE CROPPING



| 6 |

# IMAGE CROPPING

```
<h4>Rental Products</h4>
<ul class="rental">
  <li class="crop">
    
  </li>
```

```
.crop {
  height: 300px;
  width: 400px;
  overflow: hidden;
}
.crop img {
  height: auto;
  width: 400px;
```

6}

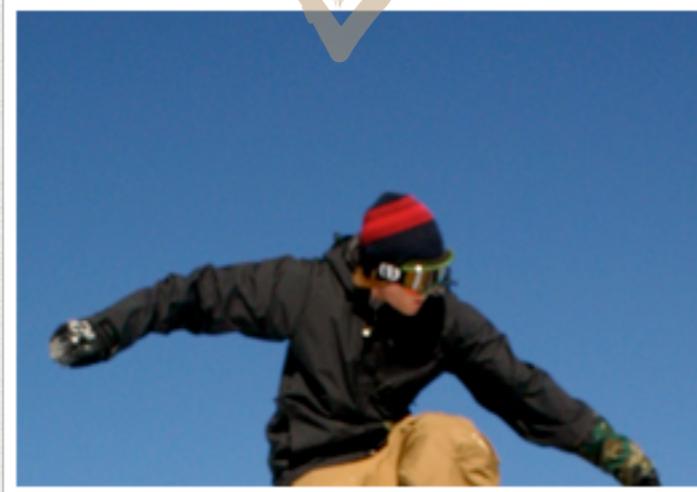


# IMAGE CROPPING



| 6 |

# IMAGE CROPPING



?

| 6 |

# IMAGE CROPPING

```
<h4>Rental Products</h4>
<ul class="rental">
  <li class="crop">
    
  </li>
```

```
.crop {
  height: 300px;
  width: 400px;
  overflow: hidden;
}
```

```
.crop img {
  height: 300px;
  width: auto;
```

6}



# IMAGE CROPPING

## Alternatives:

- ✗ Resize images to a square < height and width of all of your images
- ✗ Resize them server-side
- ✗ Provide image-uploading instructions in your CMS

## FLUID & RESPONSIVE LAYOUTS

Richard Rutter's technique:

[Link #1](#)

| 6 |





CROSS X COUNTRY

# SPRIGGY SLALOMS

# SPRIGHTLY SLALOMS

*Image Replacement*

Sprites

| 7 |



# IMAGE REPLACEMENT

Add descriptive text to image-replaced elements:

```
<a href="#" class="logo"></a>
```

```
.logo {  
background: url(logo.png);  
display: block;  
height: 100px;  
width: 200px;  
}
```



# IMAGE REPLACEMENT

Add descriptive text to image-replaced elements:

```
<a href="#" class="logo">Sven's Snowshoe Emporium</a>
```

```
.logo {  
background: url(logo.png);  
display: block;  
height: 100px;  
width: 200px;  
}
```



# IMAGE REPLACEMENT

*Text-indent hides the placeholder text:*

```
<a href="#" class="logo">Sven's Snowshoe Emporium</a>
```

```
.logo {  
background: url(logo.png);  
display: block;  
height: 100px;  
width: 200px;  
text-indent: -9999px;  
}
```



# SPRIGHTLY SLALOMS

Image Replacement

*Sprites*

| 7 |



# SPRITES

```
<a href="#" class="logo">Sven's Snowshoe Emporium</a>
```

```
.logo {  
    background: url(logo.png);  
    display: block;  
    height: 100px;  
    width: 200px;  
    text-indent: -9999px;  
}  
  
.logo:hover, .logo:focus {  
    background: url(hover.png);  
}
```



# SPRITES

## *Issues with swapping background images:*

- ✗ Adds an extra HTTP request
- ✗ Image is not preloaded

# SPRITES

Let's combine the images into one file:



# SPRITES

*defaults to: 0 0*

## Using background-position:

```
.logo {  
background: url(logo.png);  
display: block;  
height: 100px;  
width: 200px;  
text-indent: -9999px;  
}  
.logo:hover, .logo:focus {  
background-position: 0 -100px;  
}
```

*x-axis change*  
*y-axis change*

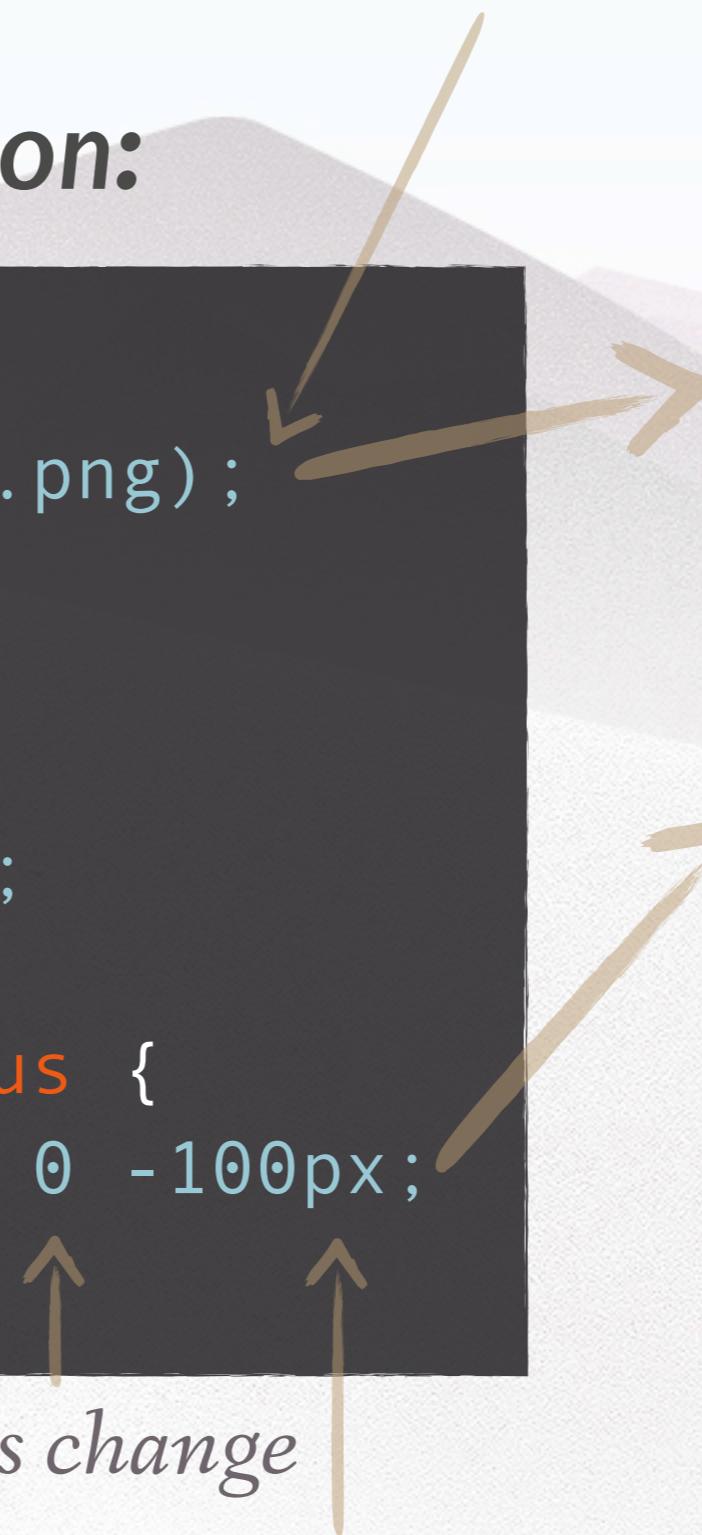


# SPRITES

## Using background-position:

```
.logo {  
background: url(logo.png);  
display: block;  
height: 100px;  
width: 200px;  
text-indent: -9999px;  
}  
.logo:hover, .logo:focus {  
background-position: 0 -100px;  
}
```

*defaults to: 0 0*



*x-axis change*  
*y-axis change*

# SPRITES

## Advantages to the sprite approach:

- × Reduces number of HTTP image requests
- × Removes loading flash / need for preload



Gmail



GitHub

# SPRITES

*Multiple images & states:*



# SPRITES

## *Multiple images & states:*

```
<ul class="group">
  <li><a href="#" class="twitter">Twitter</a></li>
  <li><a href="#" class="github">Github</a></li>
</ul>
```

```
li {
  float: left;
  margin-right: 10px;
}
```



Twitter Github !

*assumes the default list styles are reset*

| 7 |

# SPRITES

*Multiple images & states:*

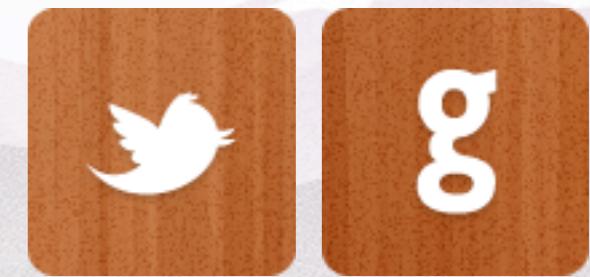
```
.twitter, .github {  
background: url(social.png);  
display: block;  
height: 100px;  
width: 100px;  
text-indent: -9999px;  
}
```



# SPRITES

## Multiple images & states:

```
.twitter, .github {  
background: url(social.png);  
display: block;  
height: 100px;  
width: 100px;  
text-indent: -9999px;  
}  
.github {  
background-position: -100px 0;  
}
```



# SPRITES

## Multiple images & states:

```
.twitter:hover, .twitter:focus {  
background-position: 0 -100px;  
}  
.github:hover, .github:focus {  
background-position: -100px -100px;  
}
```



## EASIER SPRITES

Tools for simplifying workflow:

[Link #1](#)

| 7 |

# SPRITES

## *base64 encoding:*

- ✗ Directly embed images into your CSS
- ✗ IE8+

[Link #2](#)

```
background-image: url(data:image/png;base64,iVB0...);
```

| 7 |





CROSS X COUNTRY

# PSEUDO SITZMARK



# PSEUDO SITZMARK

*Pseudo Classes*

Pseudo Elements

# PSEUDO CLASSES

Altering the last item:

```
<ul>
  <li><a href="#lodging">Lodging</a></li>
  <li><a href="#rentals">Rentals</a></li>
  <li class="last"><a href="#lessons">Lessons</a></li>
</ul>
```

```
li {
  border-bottom: 1px solid #aaa;
}
.last {
  border-bottom: 0;
```

- **LODGING**

---

- **RENTALS**

---

- **LESSONS**



# PSEUDO CLASSES

*Simplifying with last-child:*

```
<ul>
  <li><a href="#lodging">Lodging</a></li>
  <li><a href="#rentals">Rentals</a></li>
  <li><a href="#lessons">Lessons</a></li>
</ul>
```

```
li {
  border-bottom: 1px solid #aaa;
}
li:last-child {
  border-bottom: 0;
```

- **LODGING**

---

- **RENTALS**

---

- **LESSONS**



# PSEUDO CLASSES

*Allow you to conditionally select an element based on state or position:*

- ✗ Start with a colon (:)

```
.twitter:hover, .twitter:focus {  
    background-position: 0 -100px;  
}  
.github:hover, .github:focus {  
    background-position: -100px -100px;  
}
```

# PSEUDO CLASSES

Zebra striping:

```
<ul>
  <li><a href="#lodging">Lodging</a></li>
  <li class="even"><a href="#rentals">Rentals</a></li>
  <li><a href="#lessons">Lessons</a></li>
  <li class="even"><a href="#menu">Menu</a></li>
</ul>
```

```
.even {
  background-color: #444245;
}
```

LODGING

RENTALS

LESSONS

MENU



# PSEUDO CLASSES

*Simplifying with nth-child:*

```
<ul>
  <li><a href="#lodging">Lodging</a></li>
  <li><a href="#rentals">Rentals</a></li>
  <li><a href="#lessons">Lessons</a></li>
  <li><a href="#menu">Menu</a></li>
</ul>
```

```
li:nth-child(even) {
  background-color: #444245;
```



LODGING

RENTALS

LESSONS

MENU



# PSEUDO CLASSES

*Simplifying with nth-child:*

```
li:nth-child(odd) {  
    background-color: #444245;  
}
```

LODGING

RENTALS

LESSONS

MENU

# PSEUDO CLASSES

## *Simplifying with nth-child:*

```
li:nth-child(an+b) {
```

- × Matches items in intervals of  $a$ , starting with the element at position  $b$  (or  $0$ , if  $b$  isn't set)

```
li:nth-child(2n) { /* Even */
```

```
li:nth-child(2n+1) { /* Odd */
```

# PSEUDO CLASSES

A *selection of useful selectors:*

:hover / :focus / :active / :visited

:first-child / :last-child / :only-child

:nth-child() / :nth-of-type()

## PSEUDO-ER

For a full list and support:

*Links [#1](#) & [#2](#)*

# PSEUDO SITZMARK

Pseudo Classes

*Pseudo Elements*

# PSEUDO ELEMENTS

*Ending the last paragraph with a decorative element:*

```
<article>
  <p>Coffee? Hah! Our cocoa is far better.</p>
  <p>Visit from 4-5 for cocoa happy hour!&#x2744;</p>
</article>
```

Coffee? Hah! Our cocoa is far better.  
Visit from 4-5 for cocoa happy hour!✿



# PSEUDO ELEMENTS

*Ending the last paragraph with a decorative element:*

```
<article>
  <p>Coffee? Hah! Our cocoa is far better.</p>
  <p>Visit from 4-5 for cocoa happy hour!</p>
</article>
```

```
article p:last-child:after {
  content: '\2744';
}
```

Coffee? Hah! Our cocoa is far better.

Visit from 4-5 for cocoa happy hour! 

# PSEUDO ELEMENTS

A *selection of useful pseudo elements:*

:before / :after

IE8+

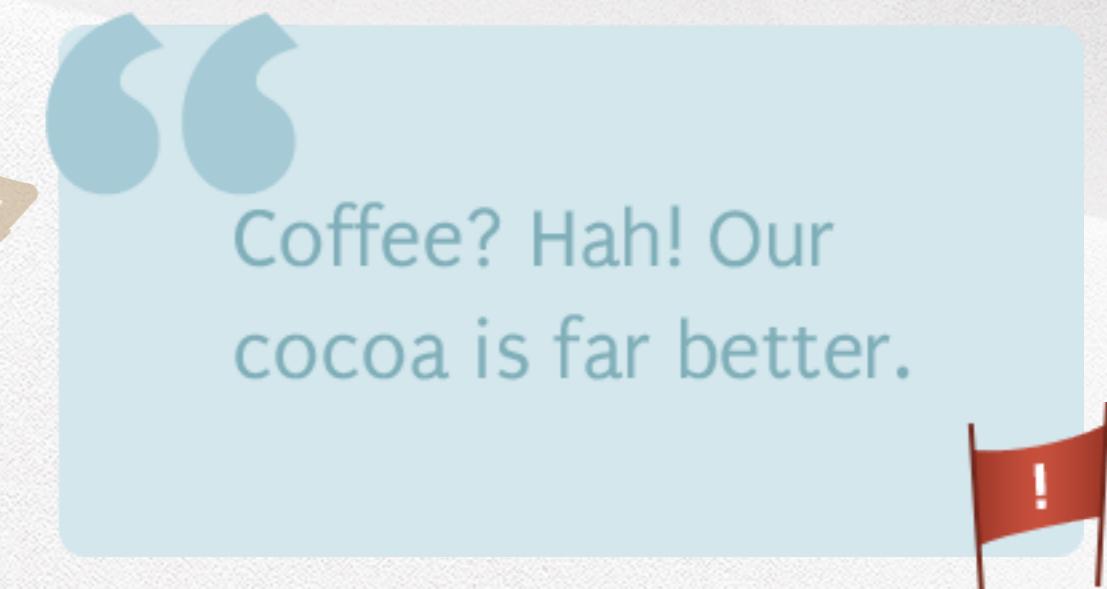
:first-letter / :first-line

# PSEUDO ELEMENTS

*positioned element*

```
<blockquote> ←  
  Coffee? Hah! Our cocoa is far better.  
  <span></span>  
</blockquote>
```

```
blockquote span {  
  background: url(quote.png);  
  display: block;  
  height: 30px;  
  width: 30px;  
  position: absolute;  
  top: -5px;  
  left: -5px;  
}
```



# PSEUDO ELEMENTS

```
<blockquote>  
  Coffee? Hah! Our cocoa is far better.  
</blockquote>
```

```
blockquote:before {  
  content: ''; ←  
  background: url(quote.png);  
  display: block;  
  height: 30px;  
  width: 30px;  
  position: absolute;  
  top: -5px;  
  left: -5px;  
}
```

8



Coffee? Hah! Our  
cocoa is far better.



# PSEUDO ELEMENTS

*:before and :after effectively add two additional places per element on the page for styling*

## PSEUDO FUN

See what you can pull off using  
pseudo elements:

[Link #3](#)

| 8 |





CROSS X COUNTRY