

Website design for artists (INTRO)

#3 Style sheets

Today

- What is CSS?
- Using CSS
- CSS Syntax
- CSS Selectors
- CSS Properties
- CSS3
- Tips & Tricks

What is CSS?

- Style sheet language used to describe look and formatting of web pages
- Keeps styling separate from content
- Helps keep HTML markup simple and clean
- Have styles for entire website in one place

Using CSS

```
<link rel="stylesheet" type="text/css"  
      href="style.css" media="all">
```

Linking external stylesheets

```
<style type="text/css" media="screen">
  h1 {
    color: red;
  }
</style>
```

Adding styles into your <head>

```
<p style="font-weight: bold;">Text</p>
```

Embedding styles into your HTML

Rule
set

```
selector, selector2 {  
  property: value;  
  property2: value2;  
}
```

CSS Syntax

```
@import url(base.css);
```

```
/* Comment */
```

At-rule and comment

CSS Cascade

- Rule sets are assigned weights by combining importance, origin (inline, internal, external), specificity and source order.
- Determines how rules should be applied

```
p {  
  color: green !important;  
}
```

Importance

```
body p strong {  
  color: green  
}
```

```
strong {  
  color: red;  
}
```

Specificity

Inheritance

- Some properties are passed from parent to child elements
- Examples: Font properties, color

CSS Selectors

```
div {  
    . . .  
}
```

Element type selector

```
.section {  
    ...  
}
```

```
div.section {  
    ...  
}
```

Class name selector

```
#search {
```

```
    . . .
```

```
}
```

```
div#search {
```

```
    . . .
```

```
}
```

Id name selector

* {
.
}

Universal selector

```
p strong {  
    . . .  
}
```

Descendant selector

```
ul > li {  
    . . .  
}
```

Child selector (Buggy in IE7)

```
h2 + p {  
    . . .  
}
```

Adjacent sibling selector (Buggy in IE7 * Safari)

h2 ~ p {
...
}

General sibling selector (Buggy in IE)

```
input[type="text"] {  
    . . .  
}
```

Attribute selector (Buggy in all browsers)

a:link,
a:visited,
a:focus,
a:hover,
a:active {}

Pseudo-classes

```
:first-child,  
:lang(en) {}
```

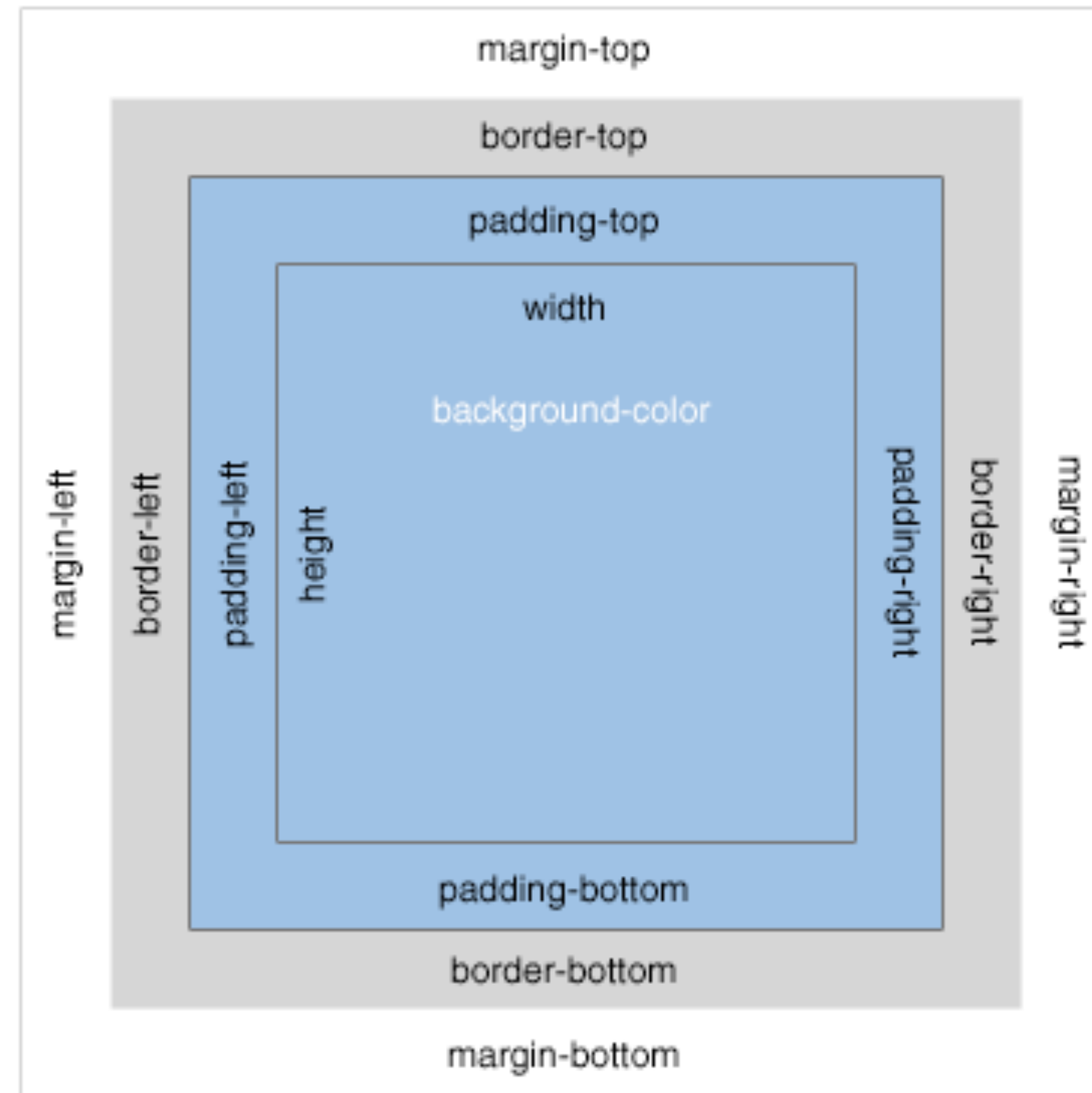
Advanced pseudo-classes (Buggy in IE)

:first-letter,
:first-line,
:before,
:after {}

Pseudo-elements (Partial support in browsers)

CSS Properties

Box properties



CSS Box Model

```
div {  
    height: 30em;  
    width: 200px;  
    min-height: 200px;  
}
```

Dimensions

(min-height/max-height, min-width/max-width buggy in IE)

```
ul {  
    margin-top: 5px;  
    margin-left: 1em;  
    margin-bottom: 10px;  
    margin-left: 2em;  
}
```

```
ul {  
    margin: 5px 1em 10px 2em;  
}
```

Margins

```
ul {  
  padding-top: 5px;  
  padding-left: 1em;  
  padding-bottom: 10px;  
  padding-left: 2em;  
}
```

```
ul {  
  padding: 5px 1em 10px 2em;  
}
```

Padding

```
div {  
    border: 1px solid #666;  
    border-bottom: 2px dashed #000;  
    border-right-style: dotted;  
}
```

Borders

(Shorthand: width, style, color)

```
div {  
  outline: 1px solid red;  
}
```

Outline

(Shorthand: width, style, color)

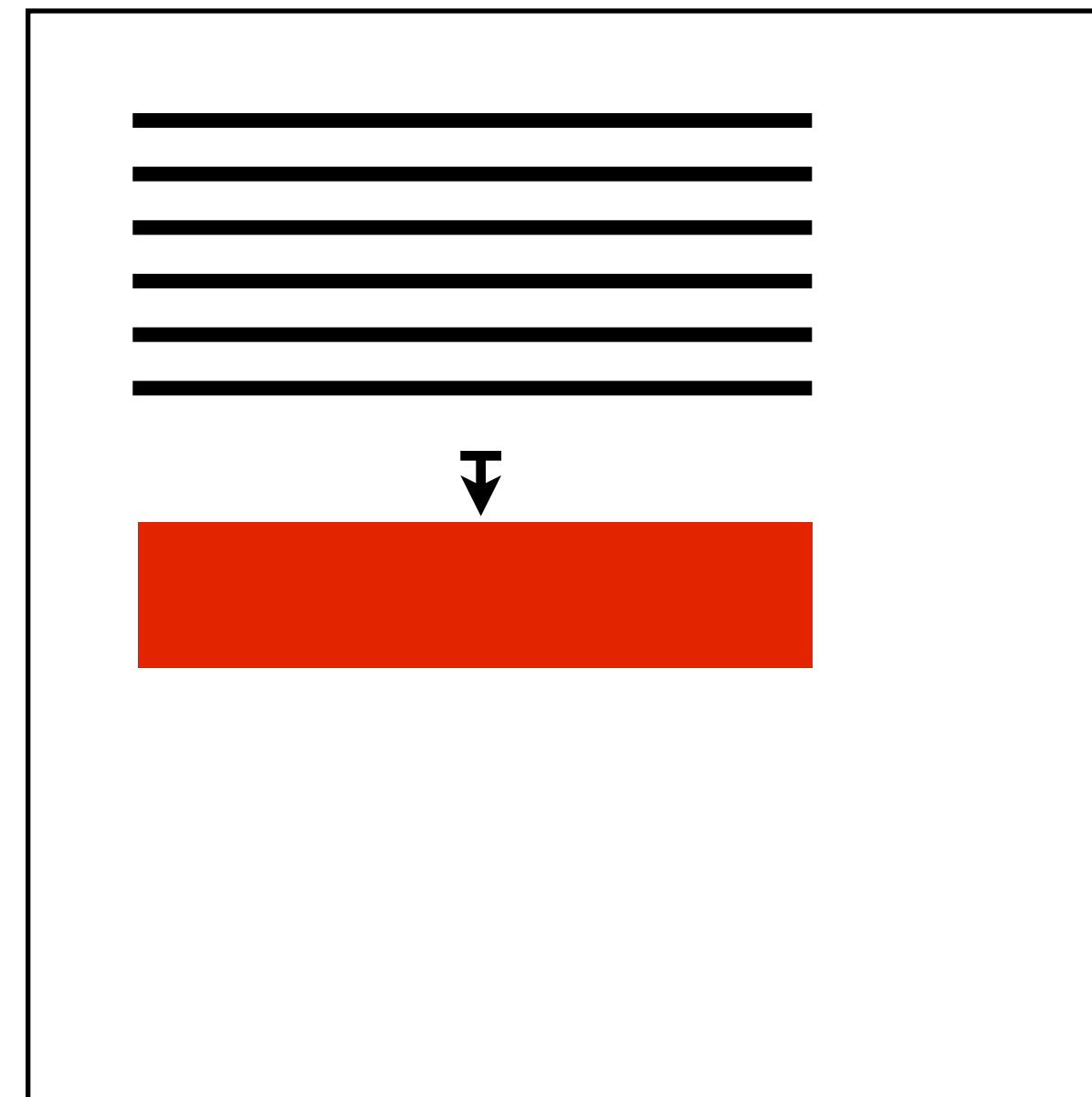
Layout properties

```
.menu a {  
    display: block;  
}
```

```
.hidden {  
    display: none;  
}
```

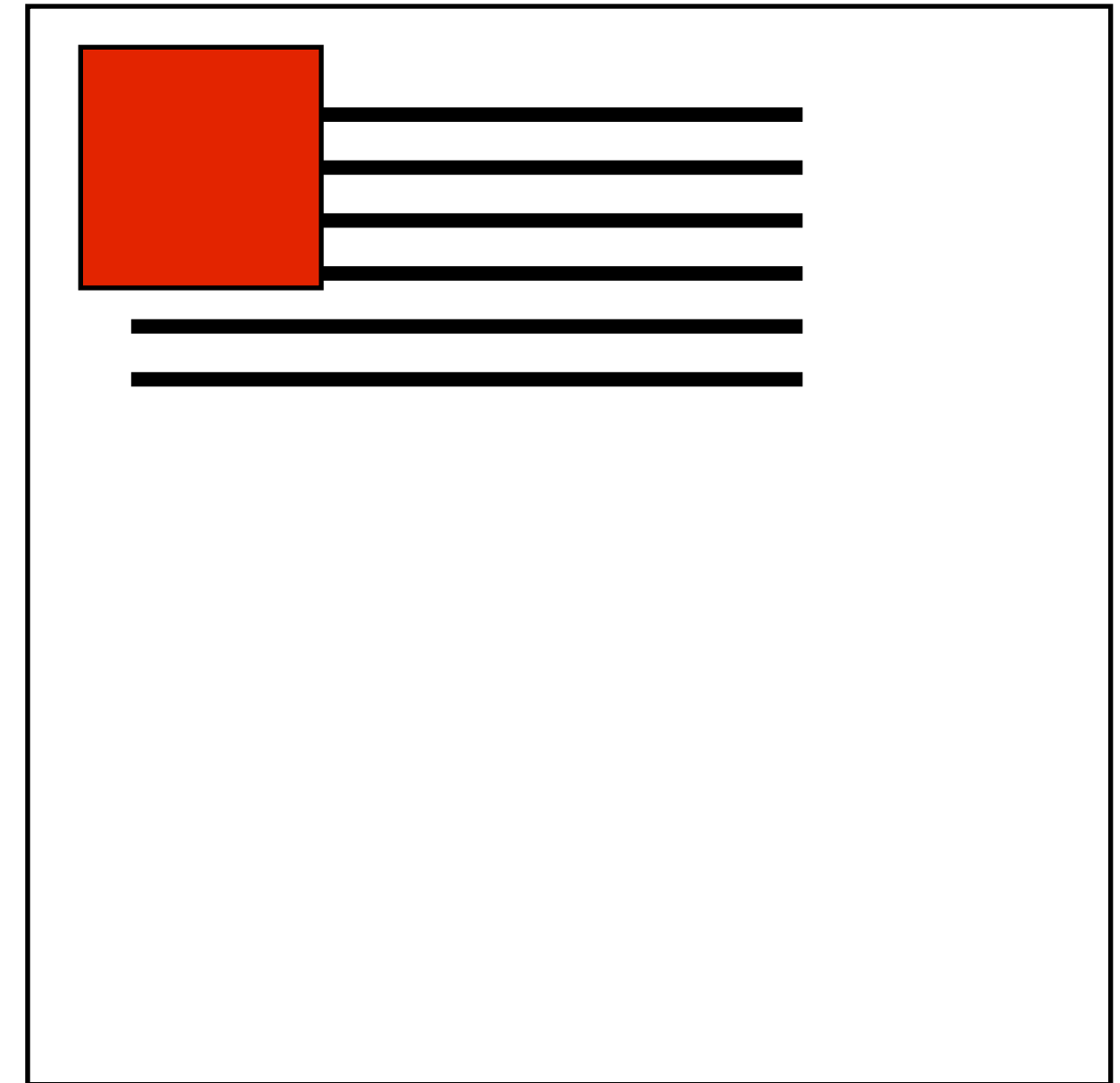
Display

```
#main-nav {  
  position: relative;  
  top: 1em;  
}
```



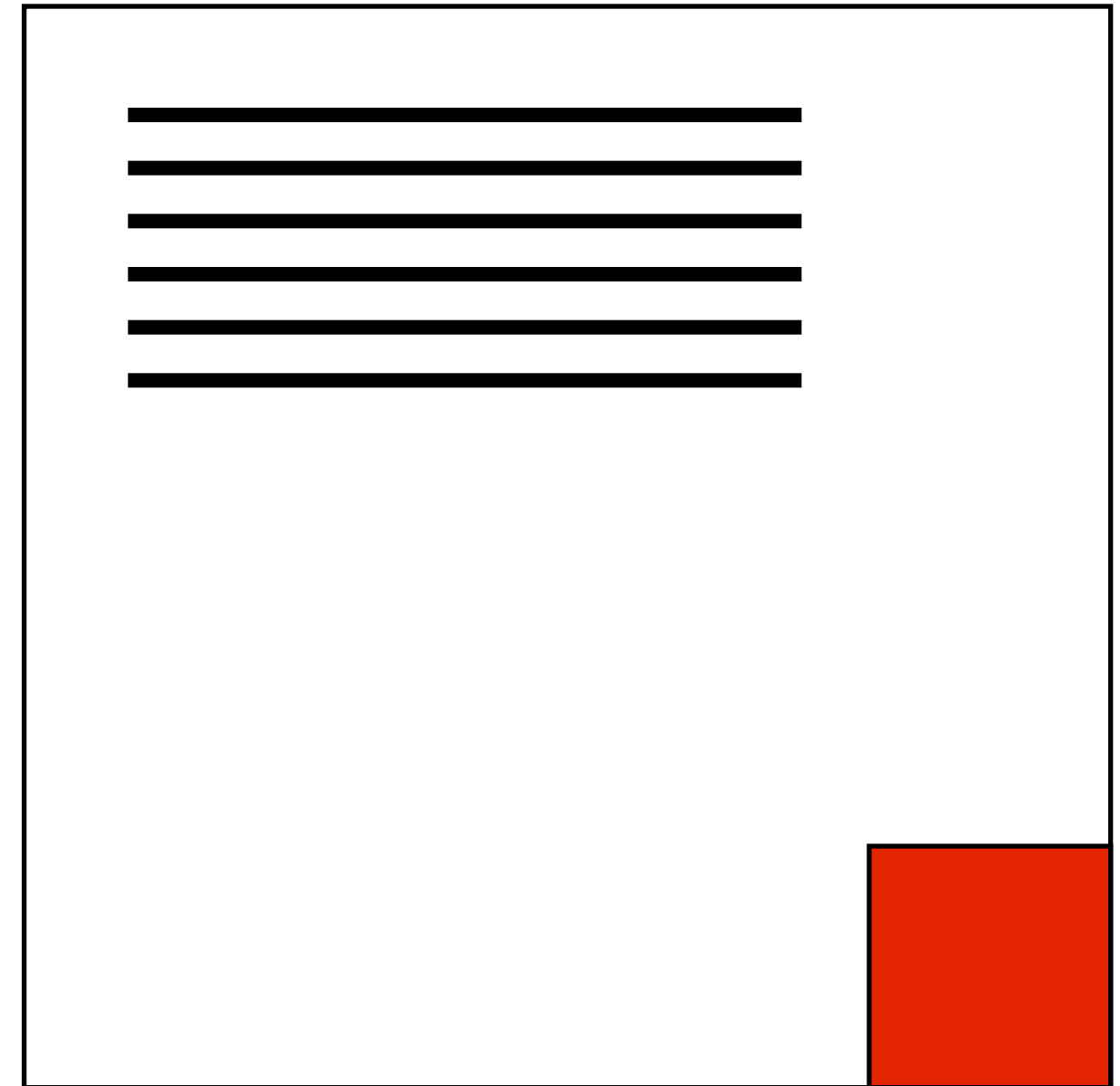
Relative positioning

```
#main-nav {  
  position: absolute;  
  top: 1em;  
  left: 20px;  
  z-index: 4;  
}
```



Absolute positioning

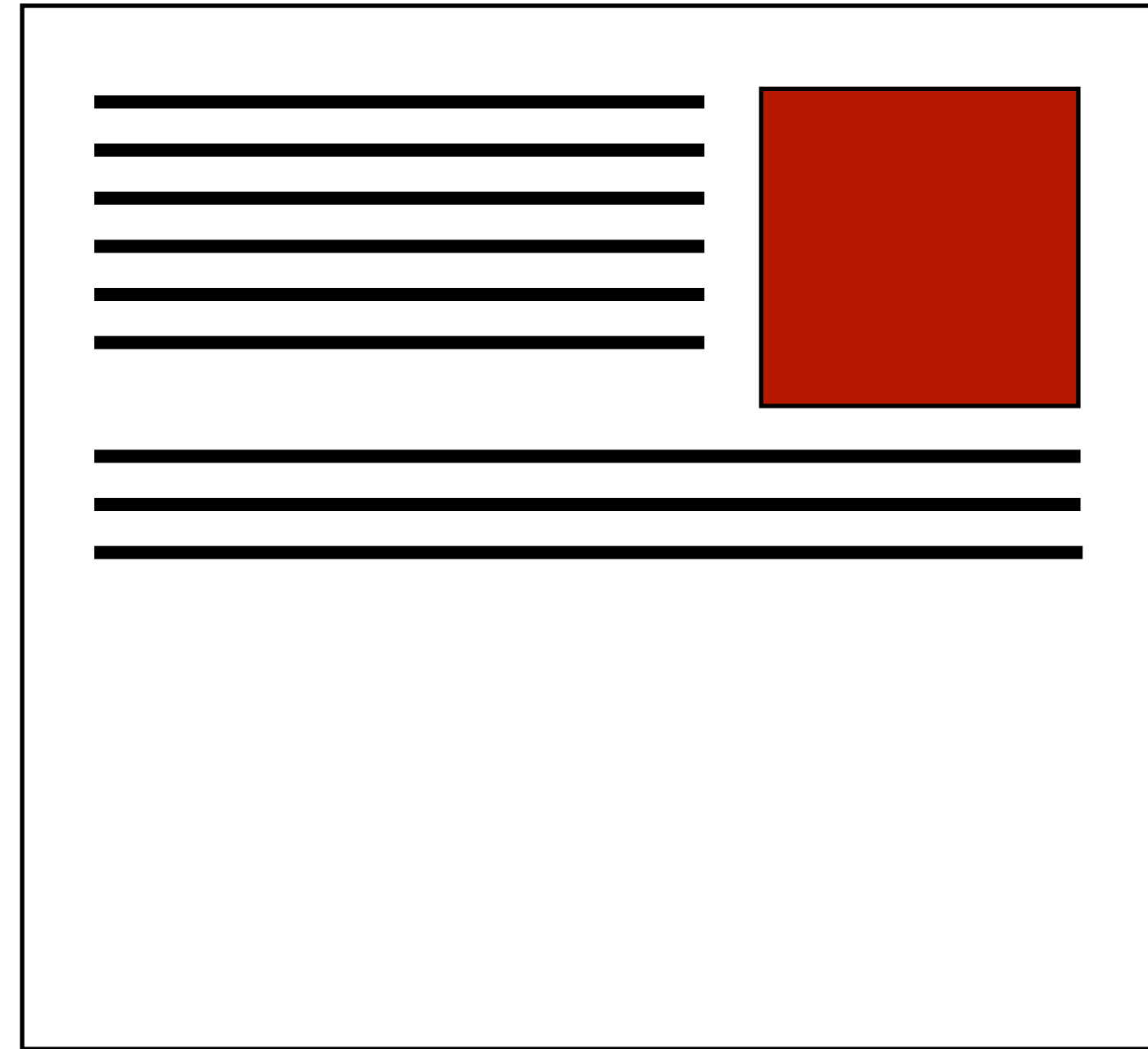
```
#badge {  
  position: fixed;  
  right: 0;  
  bottom: 0;  
}
```



Fixed positioning

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

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

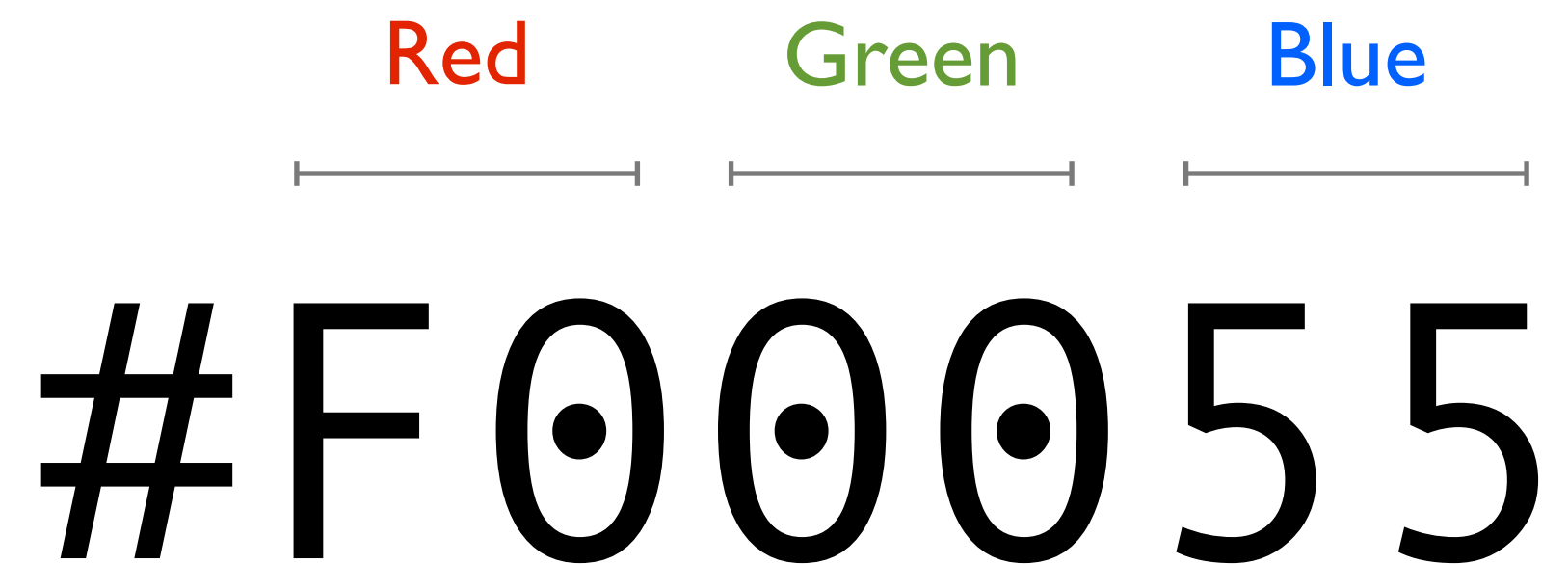


Float & clear

Colour and backgrounds

Red Green Blue

#F00055



Hexadecimal notation

Uses base 16 (0–F instead of 0–9)

```
body {  
  color: #999  
}
```

Color

```
body {  
    background: #FFF url(bg.png)  
no-repeat scroll left 5px;  
}
```

Background

(Shorthand: color, image, repeat, attachment, position)

Typographical properties

```
body {  
  font-family: Verdana, sans-serif;  
  font-size: 0.75em;  
  font-weight: bold;  
  font-style: italic;  
}
```

Fonts

```
p {  
  letter-spacing: 0.5px;  
  word-spacing: 0.5em;  
}
```

Font spacing

```
body {  
  line-height: 1.5;  
}
```

Line-height

```
p {  
  text-align: center;  
  text-decoration: none;  
  text-indent: 1em;  
  text-transform: uppercase;  
}
```

Text properties

List properties

```
ul li {  
    list-style-type: square;  
    list-style-position: inside;  
    list-style-image: none;  
}
```

List styles

Table properties

```
table {  
    border-collapse: collapse;  
}
```

Border-collapse

User interface properties

```
selector {  
    cursor: pointer;  
}
```

Cursor

CSS3

```
-moz-border-radius: 4px;  
-webkit-border-radius: 4px;  
border-radius: 4px;
```

Rounded corners!
(<http://border-radius.com>)

```
-moz-box-shadow: 10px 10px 5px #000;  
-webkit-box-shadow: 10px 10px 5px #000;  
box-shadow: 10px 10px 5px #000;
```

Drop shadows!

(value: horizontal offset, vertical offset, blur distance, colour)

```
color: rgba(0, 0, 0, 0.5);
```

Colour transparency!

```
text-shadow: 2px 2px 2px #000;
```

Text shadows!

Tip: combine with rgba colours!

```
background-image: -webkit-gradient(  
    linear,  
    left bottom,  
    left top,  
    color-stop(0.06, rgb(214,174,81)),  
    color-stop(0.53, rgb(255,209,114)),  
    color-stop(0.77, rgb(255,251,149))  
);  
background-image: -moz-linear-gradient(  
    center bottom,  
    rgb(214,174,81) 6%,  
    rgb(255,209,114) 53%,  
    rgb(255,251,149) 77%  
);
```

Gradients!

Much more!

<http://css3.info>

Tips & Tricks

CSS Sprites

```
#pager .next {  
  background-image: url(sprites.png);  
  background-position: -50px 0;  
  overflow: hidden;  
  text-align: left;  
  text-indent: -9999em;  
  height: 10px;  
  width: 14px;  
}
```

