HTML & CSS FOR BEGINNERS

Girl Develop IT Pittsburgh

Lindsey Bieda & Julie Pagano

WEEK #2

Introduction to CSS

Lindsey Bieda & Julie Pagano

GOALS FOR TODAY

- Introduction to CSS

CSS

Cascading Style Sheets

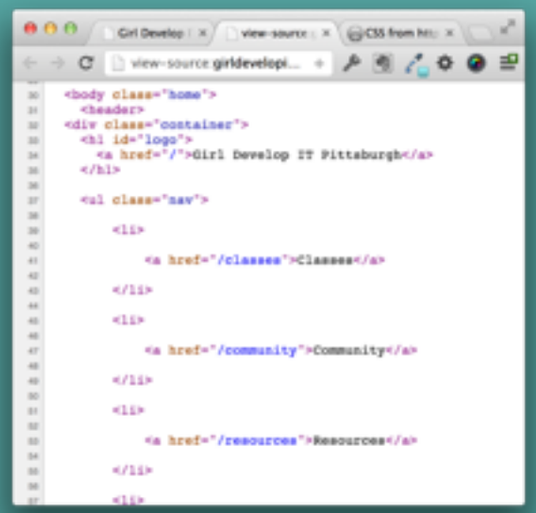
CSS

Presentation and styling of the HTML document

HTML + CSS

Structure + Style

HTML


Girl Develop
view-source
CSS from htt
view-source girldevelopi...
<body class="home">
<header>

<h1 id="logo">
<a href="/">Girl Develop IT Pittsburgh</a>
</h1>
<ul class="nav">
<li>
<a href="/classes">Classes</a>
</li>
<li>
<a href="/community">Community</a>
</li>
<li>
<a href="/resources">Resources</a>
</li>

+

CSS

Girl Develop
view-source
CSS from htt
/* Welcome to Compass.
* In this file you should write your main styles. (or central
* Import this file using the following HTML or equivalent:
* <link href="/stylesheets/screen.css" media="screen, proj
/* line 17, ../../../../../.rvm/gems/ruby-1.9.3-p194@girldevelopi
html, body, div, span, applet, object, iframe,
h1, h2, h3, h4, h5, h6, p, blockquote, pre,
a, abbr, acronym, address, big, cite, code,
del, dfn, em, img, ins, kbd, q, s, samp,
small, strike, strong, sub, sup, tt, var,
b, u, i, center,
dl, dt, dd, ol, ul, li,
fieldset, form, label, legend,
table, caption, tbody, tfoot, thead, tr, th, td,
article, aside, canvas, details, embed,
figure, figcaption, footer, header, hgroup,
menu, nav, output, ruby, section, summary,
time, mark, audio, video {
margin: 0;
padding: 0;
border: 0;
font: inherit;
font-size: 100%;
vertical-align: baseline;
}
/* line 22, ../../../../../.rvm/gems/ruby-1.9.3-p194@girldevelopi

=

Girl Develop
view-source
CSS from htt
girldevelopitpgh.com
Girl Develop It
don't be shy. develop it. Pittsburgh
CLASSES
COMMUNITY
RESOURCES
ABOUT
IT CAN BE INTIMIDATING FOR WOMEN TO LEARN AND ASK QUESTIONS WHEN THEY ARE IN AN EXTREME MINORITY
WHILE OPEN AND WELCOMING, TODAY'S BUDDING DEVELOPER COMMUNITY IS UP TO 91% MALE.

CSS ZEN GARDEN

ONE HTML PAGE, MANY STYLESHEETS

ADDING CSS TO HTML: INLINE

```
<!DOCTYPE html>
<html>
  <head></head>
  <body>
    <h1 style="color: red;">red title!</h1>
  </body>
</html>
```

ADDING CSS TO HTML: EMBEDDED

```
<!DOCTYPE html>
<html>
  <head>
    <style>
      h1 { color: red; }
    </style>
  </head>
  <body>
    <h1>red title!</h1>
  </body>
</html>
```

ADDING CSS TO HTML: LINKED

```
<!DOCTYPE html>
<html>
  <head>
    <link rel="stylesheet"
          type="text/css"
          href="style.css" />
  </head>
  <body>
    <h1>red title!</h1>
  </body>
</html>
```

style.css

```
h1 {
  color: red;
}
```

ACTIVITY: SET UP SITE CSS

1. Create a folder named “styles” in your working directory to hold stylesheets
2. Create *styles.css* in the styles directory
3. Link to *styles.css* in <head>
4. Use the developer tools to check your work

Julie Pagano

file://localhost/Users/juri/Dropbox/src/html-an...

Julie Pagano

- home
- resume
- github
- gdipgh

About Me

Elements | Resources | Network | Sources | Timeline | Profiles | Audits

Frames
(index.html)
Images
Stylesheets
styles.css
index.html
Web SQL
IndexedDB
Local Storage
Session Storage
Cookies
Application Cache

1

ID ATTRIBUTE

```
<div id="header">
  some content
</div>
```

- Unique identifier
- A document can only have one of each id
- Begin with a letter and followed by any number of letters, numbers, hyphens, underscores

CLASS ATTRIBUTE

```
<div class="code highlighted">
  some content
</div>
```

- Multiple elements can share a class
- Element can have multiple classes separated by a space
- Begin with a letter and followed by any number of letters, numbers, hyphens, underscores

NAMING CLASSES AND IDS

- **Do** describe what it is for
- **DO NOT** describe what it looks like
- Use a name that will make sense to you in the future

EXAMPLES OF BAD NAMES

- bigText
- red
- leftColumn
- underlined
- style7

EXAMPLES OF GOOD NAMES

- header
- footer
- sidebar
- alert
- copyright
- navigation

ANATOMY OF THE CSS RULE

```
selector {
  property: value;
}
```

SELECTOR

```
selector {
  property: value;
}
```

PROPERTY

```
selector {
  property: value;
}
```

VALUE

```
selector {
  property: value;
}
```

DECLARATION

```
selector {
  property: value;
}
```

RULE

```
selector {
  property: value;
}
```

SELECTOR: ELEMENT

```
div {
  property: value;
}
```

Selects all **div** elements

```
<div>foo</div>
<div>bar</div>
```

Example of selected HTML elements

SELECTOR: ID

```
#header {
  property: value;
}
```

Selects all elements with the id **“header”**

```
<div id="header">
  Welcome!
</div>
```

Example of selected HTML element

SELECTOR: CLASS

```
.tip {
  property: value;
}
```

Selects all elements with the class **“tip”**

```
<span class="tip">HTML gives sites structure.</span>
<span class="tip">CSS makes sites pretty.</span>
```

Example of selected HTML elements

SELECTOR: POSITION

```
p span {
  property: value;
}
```

Selects all span elements that are in a paragraph.

```
<p>
  This, <span>that</span>, and the <span>other</span>.
</p>
```

Example of selected HTML elements

PROPERTY VALUES

Properties have one or more comma separated values

```
p {
  font-size: 14px;
  font-weight: normal;
  font-family: Arial, sans-serif;
}
```

PROPERTY: FONT-FAMILY

Defines which font is used

```
font-family: 'Open Sans';

font-family: serif;

font-family: "Arial", sans-serif;
```

- Specific font name
- Generic name
- Comma separated list

PROPERTY: FONT-WEIGHT

Defines the weight or boldness of the font

```
p {
  font-weight: normal;
  font-weight: 400;
  font-weight: bold;
  font-weight: 700;
}
```

- Named weight
- Numeric weight

PROPERTY: FONT-SIZE

Specifies the size of the font

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

SHORTHAND PROPERTY: FONT

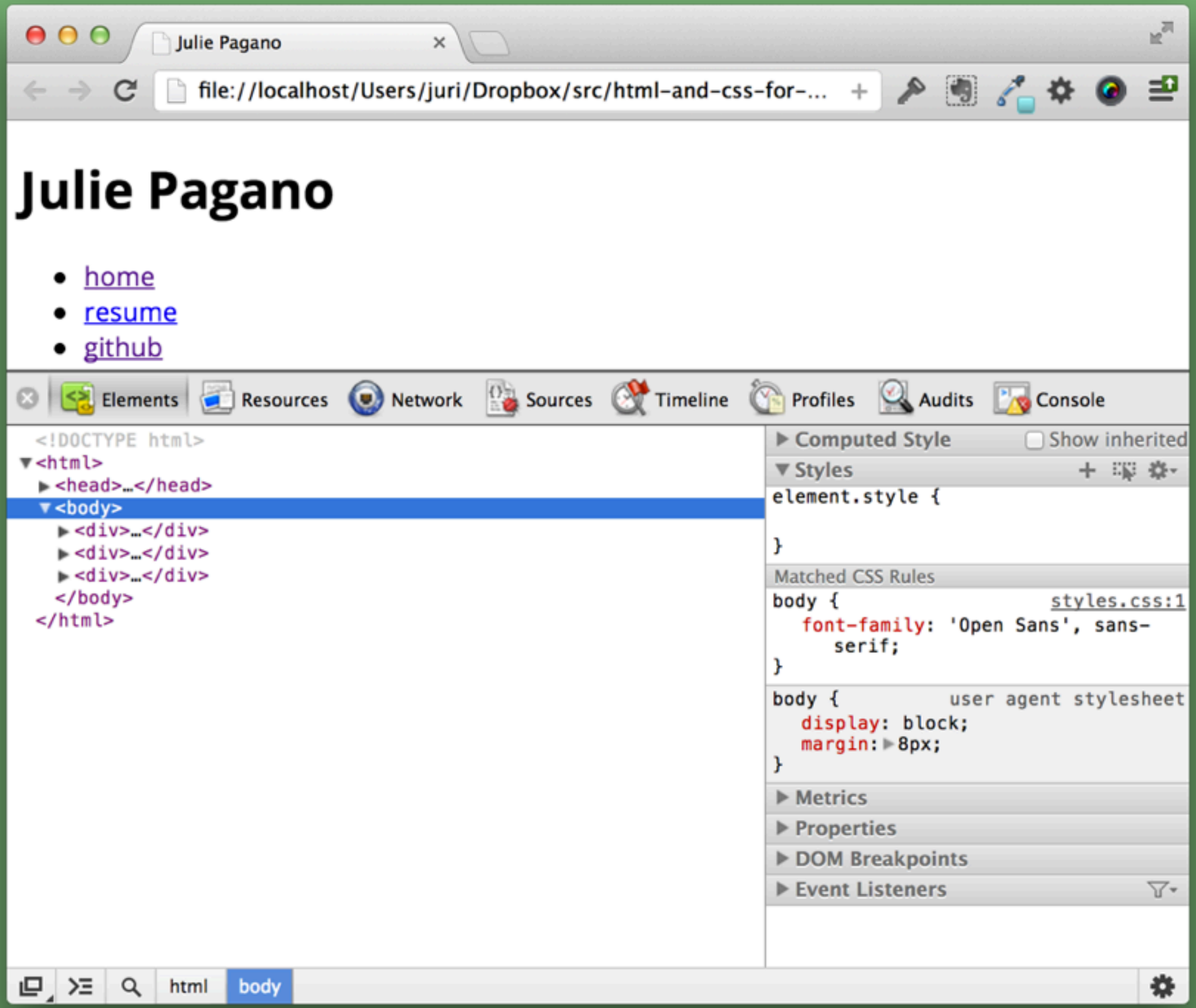
```css
p {
  font-style: italic;
  font-weight: bold;
  font-size: 14px;
  font-family: sans-serif;
}
```

can also be written as

```css
p {
  font: italic bold 14px sans-serif;
}
```

ACTIVITY: PICK A FONT

1. Go to http://www.google.com/webfonts
2. Select a font and click **“quick use”**
3. Check the font styles you want
4. Add the standard code to <head> in *index.html*
5. Set the font-family on the body in *style.css*
6. Use the developer tools to check your work


Julie Pagano
file://localhost/Users/juri/Dropbox/src/html-and-css-for-...
Julie Pagano
home
resume
github
Elements
Resources
Network
Sources
Timeline
Profiles
Audits
Console
<!DOCTYPE html>
<html>
<head>…</head>
<body>
…
…
…
</body>
</html>
Computed Style
Show inherited
Styles
element.style {
}
Matched CSS Rules
body { styles.css:1
font-family: 'Open Sans', sans-serif;
}
body { user agent stylesheet
display: block;
margin: 8px;
}
Metrics
Properties
DOM Breakpoints
Event Listeners
html
body

PROPERTY: COLOR

Defines the color of the text

```
p {
  color: blue;
  color: #0000FF;
  color: rgb(0, 0, 255);
}
```

- Named color
- Hexadecimal (hex) color
- Red Green Blue (rgb) color

PROPERTY: BACKGROUND-COLOR

Defines the color of the background

```
p {
  background-color: red;
  background-color: #FF0000;
  background-color: rgb(255, 0, 0);
}
```

- Named color
- Hexadecimal (hex) color
- Red Green Blue (rgb) color

ACTIVITY: COLOR SCHEMES

1. Go to http://colorschemedesigner.com/
2. Pick a color you like and a scheme (e.g. triad)
3. Take a look at the light/dark page examples
4. Add color styles to *style.css*
    a) Add ids or classes to HTML, as needed
    b) Set the background color for the body, header, footer
    c) Set the text color
    d) Set the color for links
5. Inspect the color styles in the developer tools

Undo
Redo
Random
Colorblind
Color space
Export
Help
Color Scheme Designer
2002-2010 © Petr Stanicek • v3.51 • Blog & News
mono
complement
triad
tetrad
analogic
accented analogic
Scheme ID: 3n51Tw0w0w0w0
CREATE FREE STUNNING WEBSITES GO >>
Hue: 215°
opposite
Angle: 30°
warm
cold
R: 2 %
G: 51 %
B: 62 %
RGB: 04819E
Show sample text
Hues
Adjust Scheme
Color List
Preview
Light page example
Dark page example
Do you like this app?
Donate
Related: FREE Logo Design | Wedding Invitations | Save the Dates

Julie Pagano

file://localhost/Users/juri/Dropbox/src/html-and-css-for-beginners/exercises/06-color-schemes/index.html

Julie Pagano

- home
- resume
- github
- gdipgh

About Me

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Fusce at iaculis felis. Ut hendrerit nisl in ligula posuere tempus. Nullam at metus a mauris interdum ornare. Duis nec mi ac mauris pretium cursus. Duis hendrerit mollis commodo. Ut luctus pharetra iaculis. Duis ornare convallis nisi, id aliquam lorem condimentum id. Nullam sit amet sapien sit amet nulla fermentum convallis ut quis nibh. Nulla nulla neque, sollicitudin vitae rutrum non, volutpat a mi. Suspendisse aliquam elementum facilisis. Aenean nunc diam, viverra id ornare ut, vestibulum at arcu. Nam eleifend, urna eget porta vehicula, ipsum sem faucibus ante, a facilisis urna nibh in eros. Donec eget massa neque, ac cursus est. Etiam ac ipsum eu nunc mollis porta.

- twitter
- facebook
- tumblr
- linkedin

Girl Develop IT Pittsburgh

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Duis scelerisque feugiat nisl, vitae pharetra nunc viverra et. Cras non est et est aliquam ullamcorper. Donec in magna ante, sit amet eleifend tellus. Nunc lacinia quam non elit consequat fringilla. Nam porta pretium ligula eget imperdiet.

PROPERTY: TEXT-DECORATION

Used to set some text formatting

```
p {
  text-decoration: overline underline;
}
```

- Values: none, underline, overline, line-through
- Multiple values allowed

PROPERTY: TEXT-ALIGN

Determines the alignment of text within an element

```
h1 {
  text-align: center;
}
```

- Values: left, right, center, justify

CSS COMMENTS

Comments are added inside **/* */**

```
/* Header */
#header {
  color: red;
}
```

- Used for separating sections of styles
- Used to explain complicated behavior

CSS RESET

- CSS resets are used to set all styles to the same baseline
- This is useful for eliminating inconsistencies across browsers

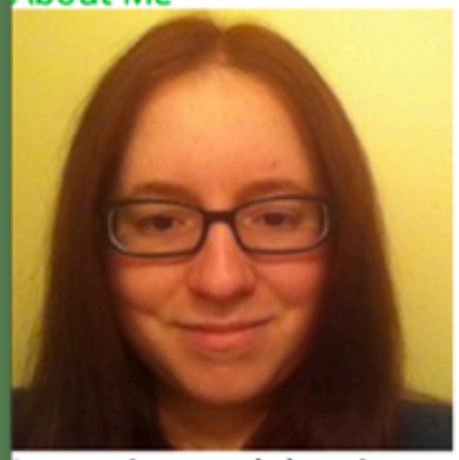
ACTIVITY: SET UP CSS RESET

1. Go to http://meyerweb.com/eric/tools/css/reset/reset.css
2. Add css reset to your styles directory
3. Link to reset in <head>
4. View the page in your browser and note the differences

Julie Pagano

file://localhost/Users/juri/Dropbox/src/html-and-css-for-beginners/exercises/07-css-reset/...

Julie Pagano
home
resume
github
gdipgh
About Me



Lorem ipsum dolor sit amet, consectetur adipiscing elit. Fusce at iaculis felis. Ut hendrerit nisl in ligula posuere tempus. Nullam at metus a mauris interdum ornare. Duis nec mi ac mauris pretium cursus. Duis hendrerit mollis commodo. Ut luctus pharetra iaculis. Duis ornare convallis nisi, id aliquam lorem condimentum id. Nullam sit amet sapien sit amet nulla fermentum convallis ut quis nibh. Nulla nulla neque, sollicitudin vitae rutrum non, volutpat a mi. Suspendisse aliquam elementum facilisis. Aenean nunc diam, viverra id ornare ut, vestibulum at arcu. Nam eleifend, urna eget porta vehicula, ipsum sem faucibus ante, a facilisis urna nibh in eros. Donec eget massa neque, ac cursus est. Etiam ac ipsum eu nunc mollis porta.
twitter
facebook
tumblr
linkedin
Girl Develop IT Pittsburgh
Lorem ipsum dolor sit amet, consectetur adipiscing elit. Duis scelerisque feugiat nisl, vitae pharetra nunc viverra et. Cras non est et est aliquam ullamcorper. Donec in magna ante, sit amet eleifend tellus. Nunc lacinia quam non elit consequat fringilla. Nam porta pretium ligula eget imperdiet. Quisque nisl mauris, luctus et pulvinar sit amet, auctor quis purus. Quisque a metus neque, quis malesuada leo. Suspendisse potenti. Sed ac elementum quam. Nulla interdum erat feugiat dolor tincidunt pretium. Vivamus id nisl ipsum. Nulla id volutpat sem. Curabitur non orci ante, vel aliquet nisi. Phasellus in nisi in arcu luctus varius. Vivamus hendrerit, dui eu luctus congue, enim mauris sollicitudin diam, eget venenatis elit urna eget est. Vestibulum eu diam mauris.
In molestie sollicitudin velit non tristique. Curabitur interdum eros et ligula bibendum ac consectetur nunc malesuada. Proin a lectus sit amet magna aliquam pretium vel id dui. Aliquam erat volutpat. Pellentesque sem diam, lobortis vitae accumsan vel, pulvinar et augue. Sed porttitor nibh in nulla sagittis pulvinar. Morbi ultrices ullamcorper turpis nec luctus. Vivamus vestibulum massa facilisis diam pharetra consequat. Donec a purus eros. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Aliquam erat volutpat. Donec sapien purus, cursus a vehicula vel, porttitor ac purus. In risus leo, semper et convallis id, condimentum ac quam.
Responsive Web Design
Lorem ipsum dolor sit amet, consectetur adipiscing elit. Duis scelerisque feugiat nisl, vitae pharetra nunc viverra et. Cras non est et est aliquam ullamcorper. Donec in magna ante, sit amet eleifend tellus. Nunc lacinia quam non elit consequat fringilla.

MULTIPLE SELECTORS

```
h1 { font-weight: bold; }
h2 { font-weight: bold; }
```

Can be combined into

```
h1, h2 {
  font-weight: bold;
}
```

PSEUDO-CLASS SELECTORS

```
a { color: blue; }
a:visited { color: green; }
a:hover { color: red; }
```

- **:hover** selects when user hovers over an element
- **:visited** selects when user has visited a link

ACTIVITY: PSEUDO-CLASS SELECTORS

1. Add a css rule to modify the color of links on hover
2. Add a css rule to modify the color of visited links

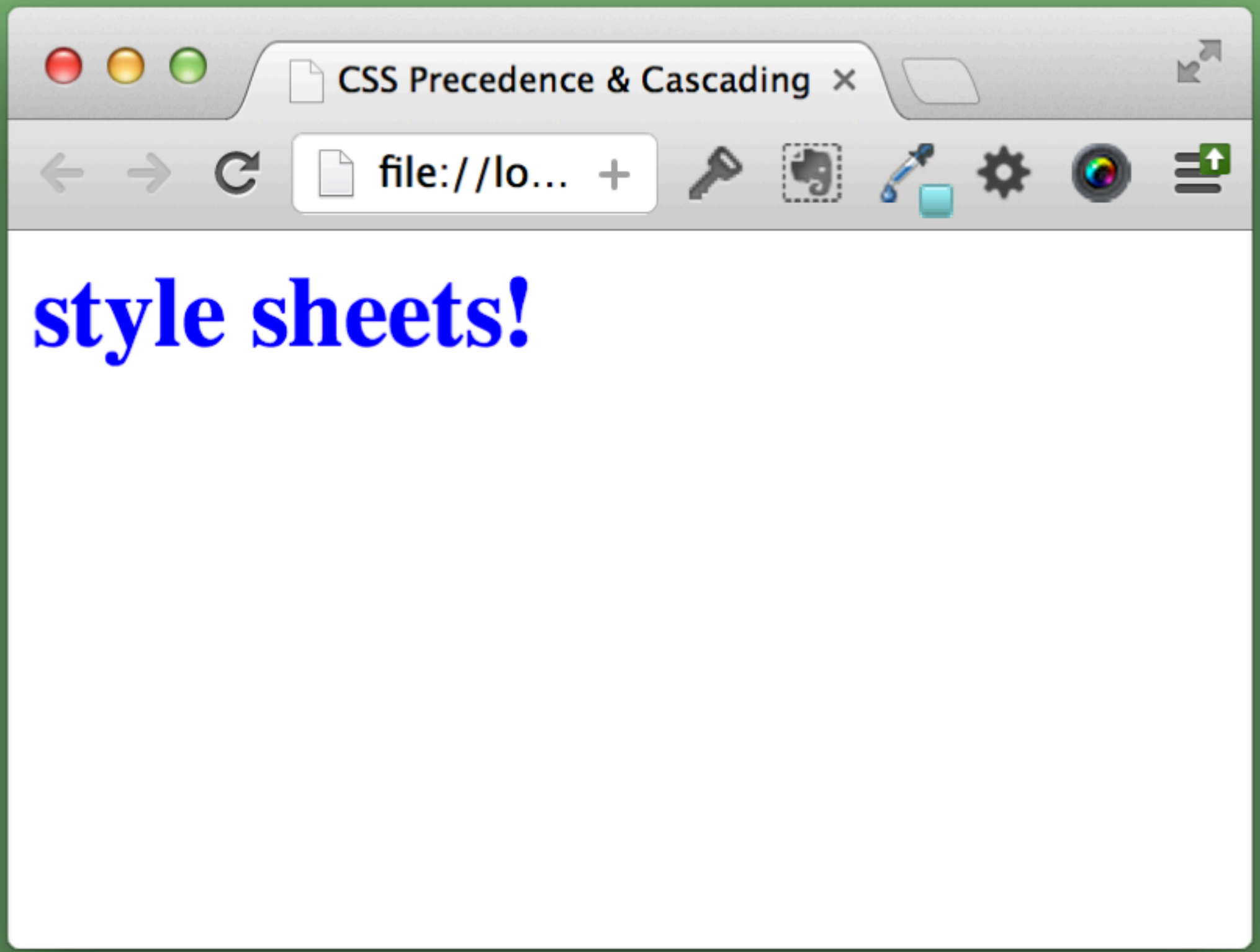
INHERITANCE

Elements can inherit some CSS rules (e.g. font, color) from their parents

WHAT COLOR IS THE TEXT?

```html
<div id="main" class="foo">
  <h1 id="heading" class="bar baz">
    style sheets!
  </h1>
</div>
```

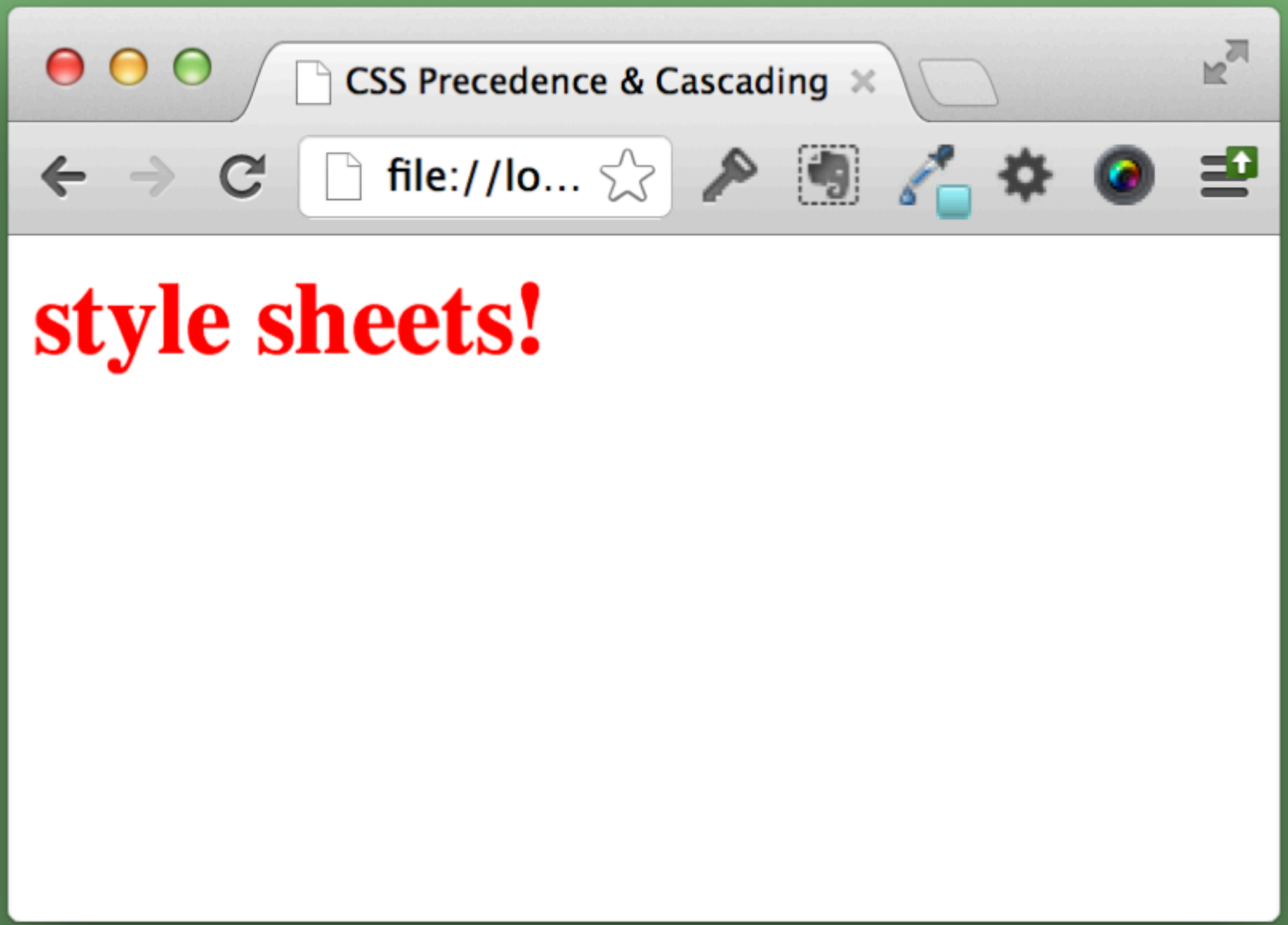
```css
#main {
  color: blue;
}
```


CSS Precedence & Cascading
file://lo...
style sheets!

WHAT COLOR IS THE TEXT?

```html
<div id="main" class="foo">
  <h1 id="heading" class="bar baz">
    style sheets!
  </h1>
</div>
```

```css
div {
  color: blue;
}
h1 {
  color: red;
}
```


CSS Precedence & Cascading
file://lo...
style sheets!

SPECIFICITY

How the browser picks a value when there are multiple rules

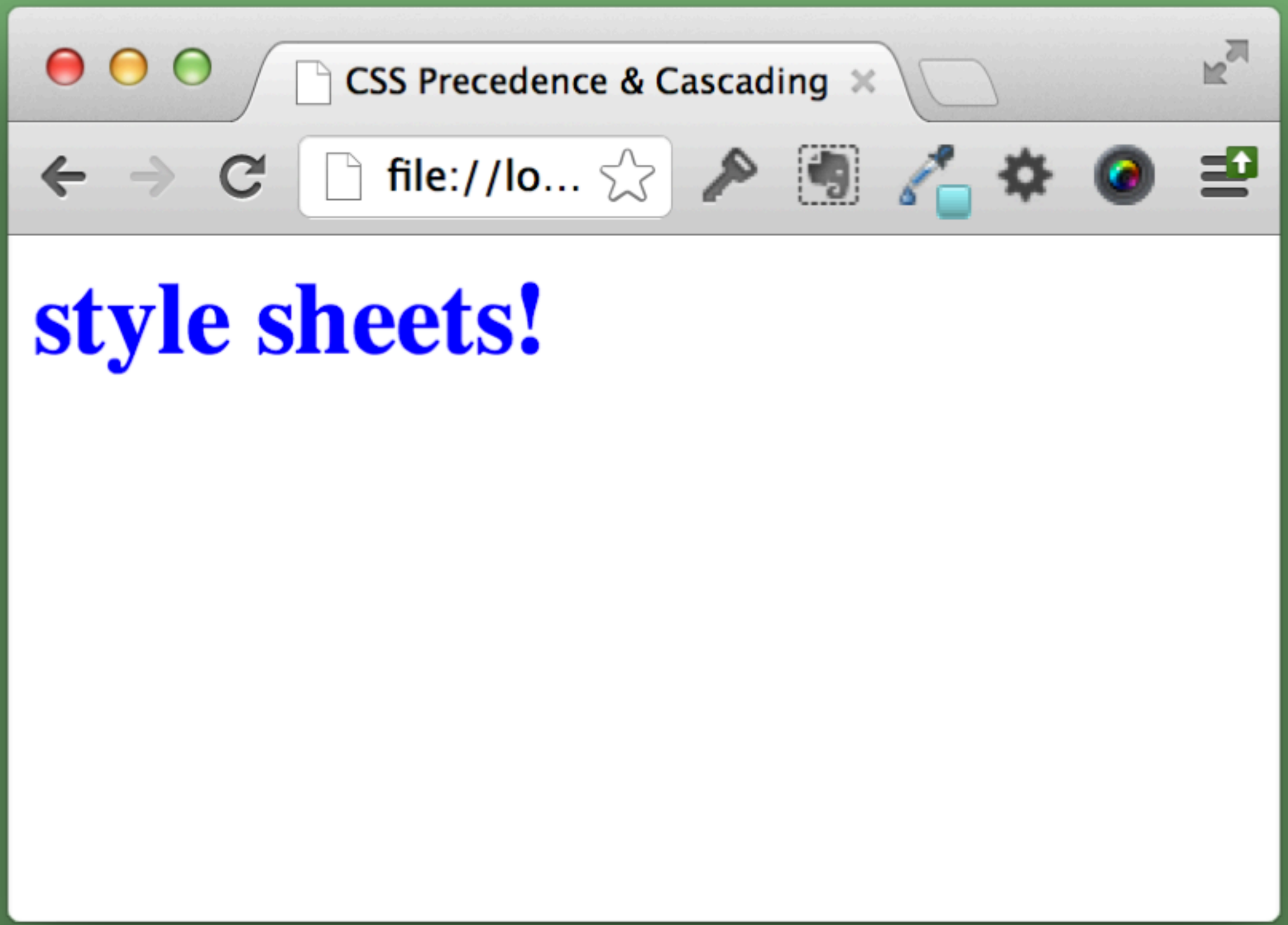
SPECIFICITY

- Element selectors (least)
- Class selectors
- Pseudo-class selectors
- ID selectors
- Inline style (most)

WHAT COLOR IS THE TEXT?

```html
<div id="main" class="foo">
  <h1 id="heading" class="bar baz">
    style sheets!
  </h1>
</div>
```

```css
#heading {
  color: blue;
}
.bar {
  color: red;
}
```


CSS Precedence & Cascading
file://lo...
style sheets!

CSS Rules Quiz - Specificity

file://localhost/Users/juri/Dro...

style sheets!

Elements | Resources | Network | Sources | Timeline

```
<!DOCTYPE html>
▼<html>
  ▶<head>…</head>
  ▼<body>
    ▼<div id="main" class=
    "foo">
        <h1 id="heading"
        class="bar baz">style
        sheets!</h1>
      </div>
    </body>
  </html>
```

▶ Computed Style — Show inherited

▼ Styles

```
element.style {

}
```

Matched CSS Rules

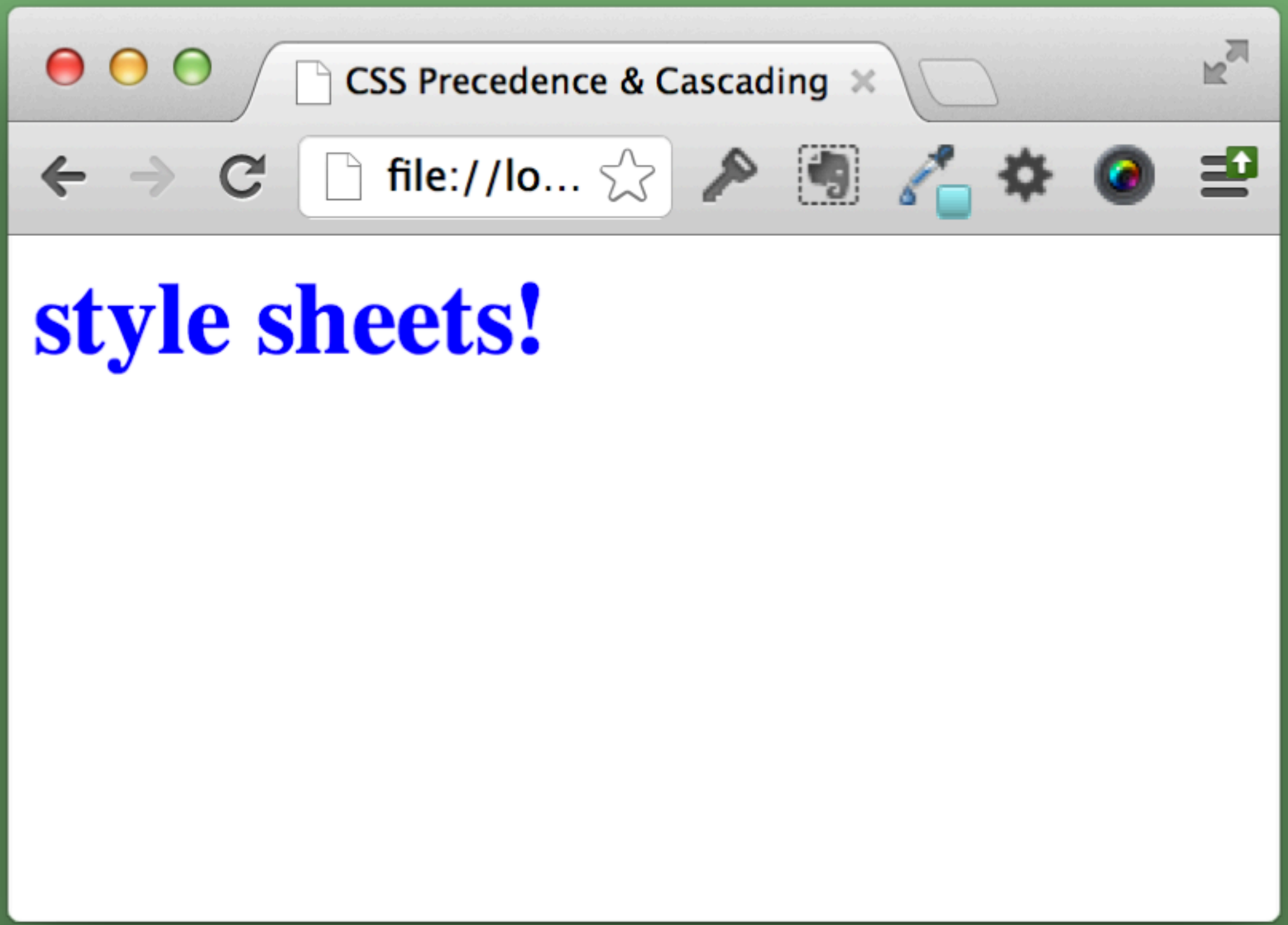
```
#heading {                          specificity1.html:6
    color: blue;
}

.bar {                              specificity1.html:9
    color: red;
}
```

html | body | div#main.foo | h1#heading.bar.baz

WHAT COLOR IS THE TEXT?

```
<div id="main" class="foo">
  <h1 id="heading" class="bar baz">
    style sheets!
  </h1>
</div>
```

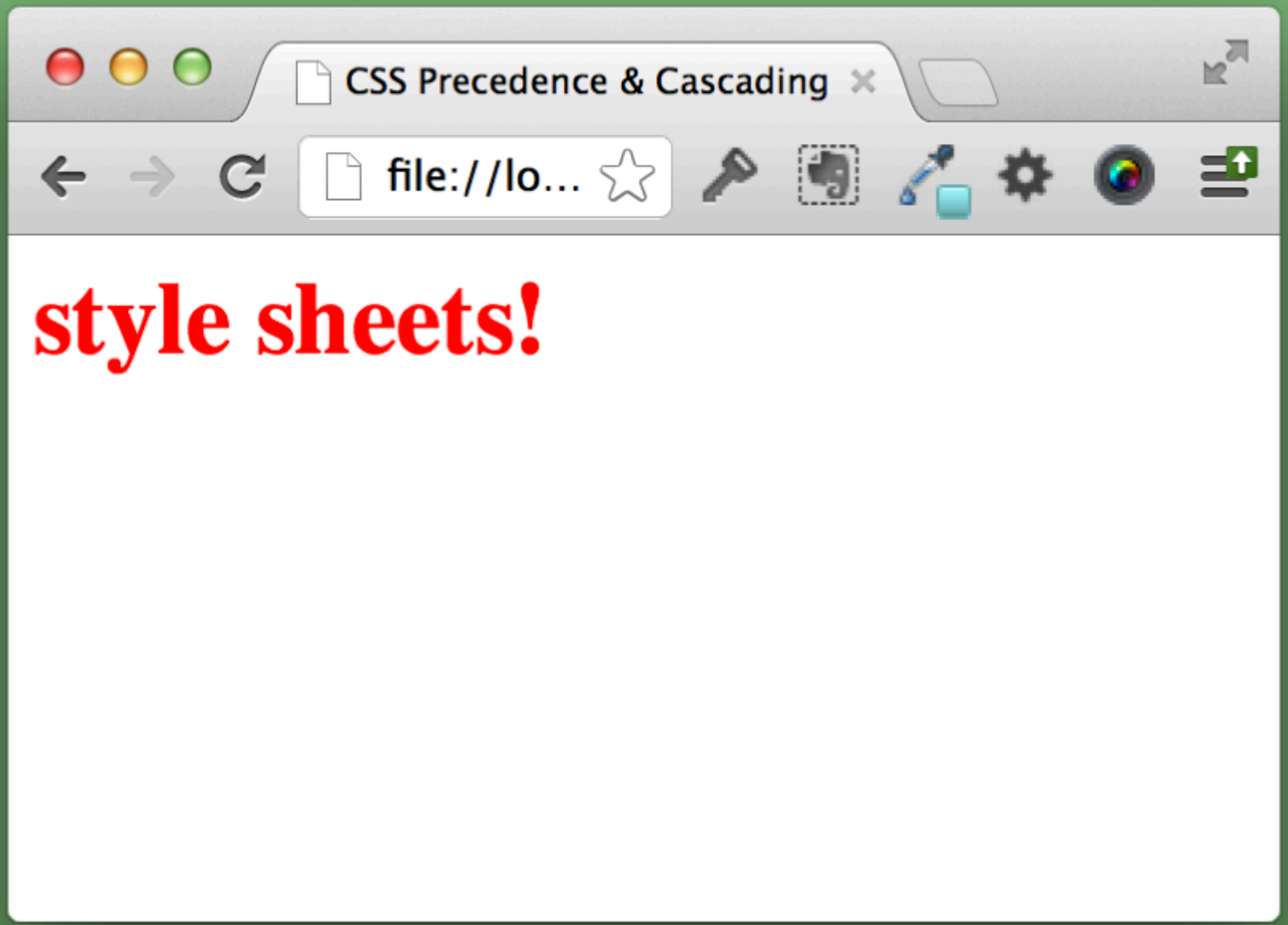
```
.bar.baz {
  color: blue;
}
.bar {
  color: red;
}
```


CSS Precedence & Cascading
file://lo...
style sheets!

WHAT COLOR IS THE TEXT?

```html
<div id="main" class="foo">
  <h1 id="heading" class="bar baz">
    style sheets!
  </h1>
</div>
```

```css
.bar.baz {
  color: blue;
}
#heading {
  color: red;
}
```


CSS Precedence & Cascading
file://lo...
style sheets!

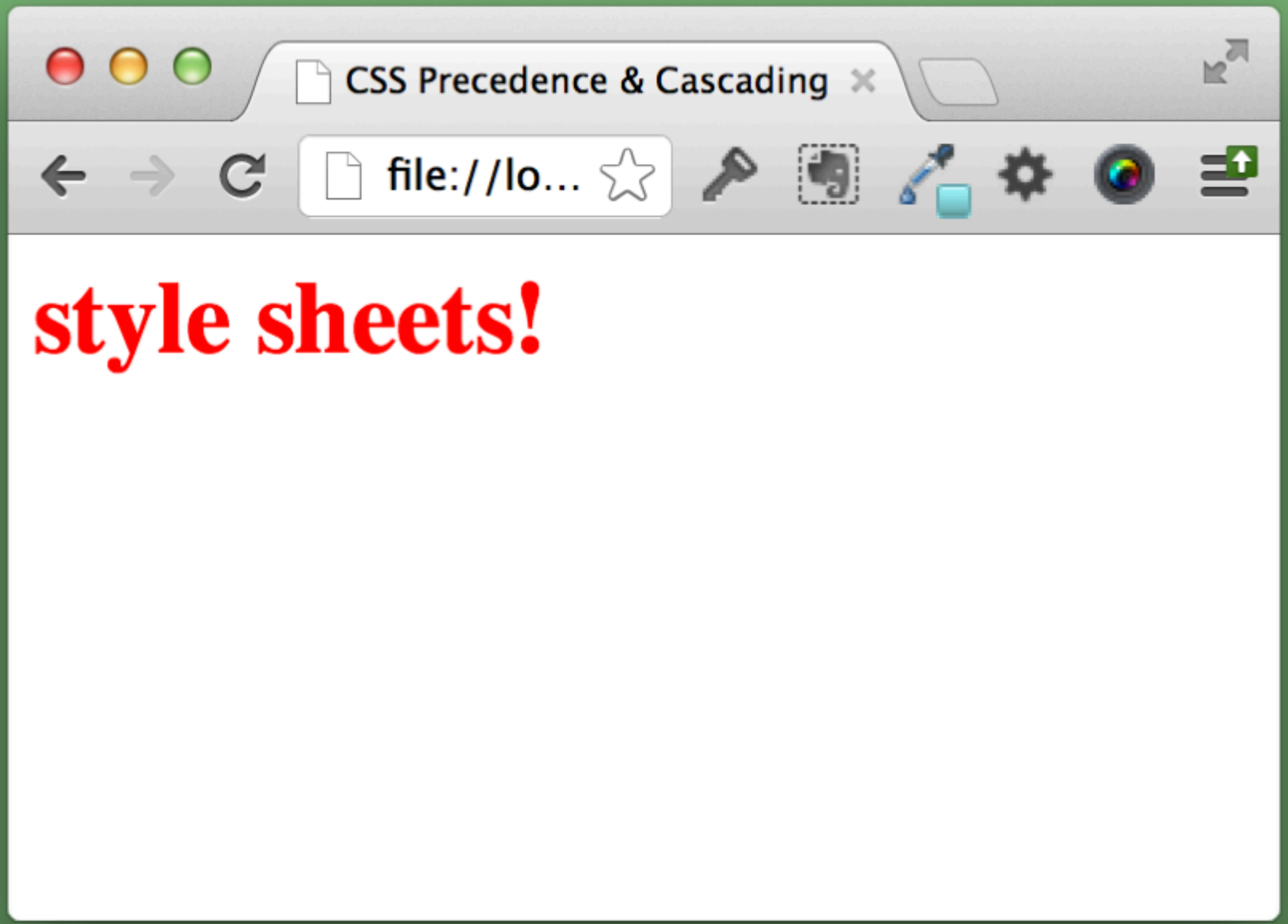
ORDER

Later rules trump earlier rules (assuming equal specificity)

WHAT COLOR IS THE TEXT?

```html
<div id="main" class="foo">
  <h1 id="heading" class="bar baz">
    style sheets!
  </h1>
</div>
```

```css
.bar {
  color: blue;
}
.baz {
  color: red;
}
```


CSS Precedence & Cascading
file://lo...
style sheets!

!IMPORTANT

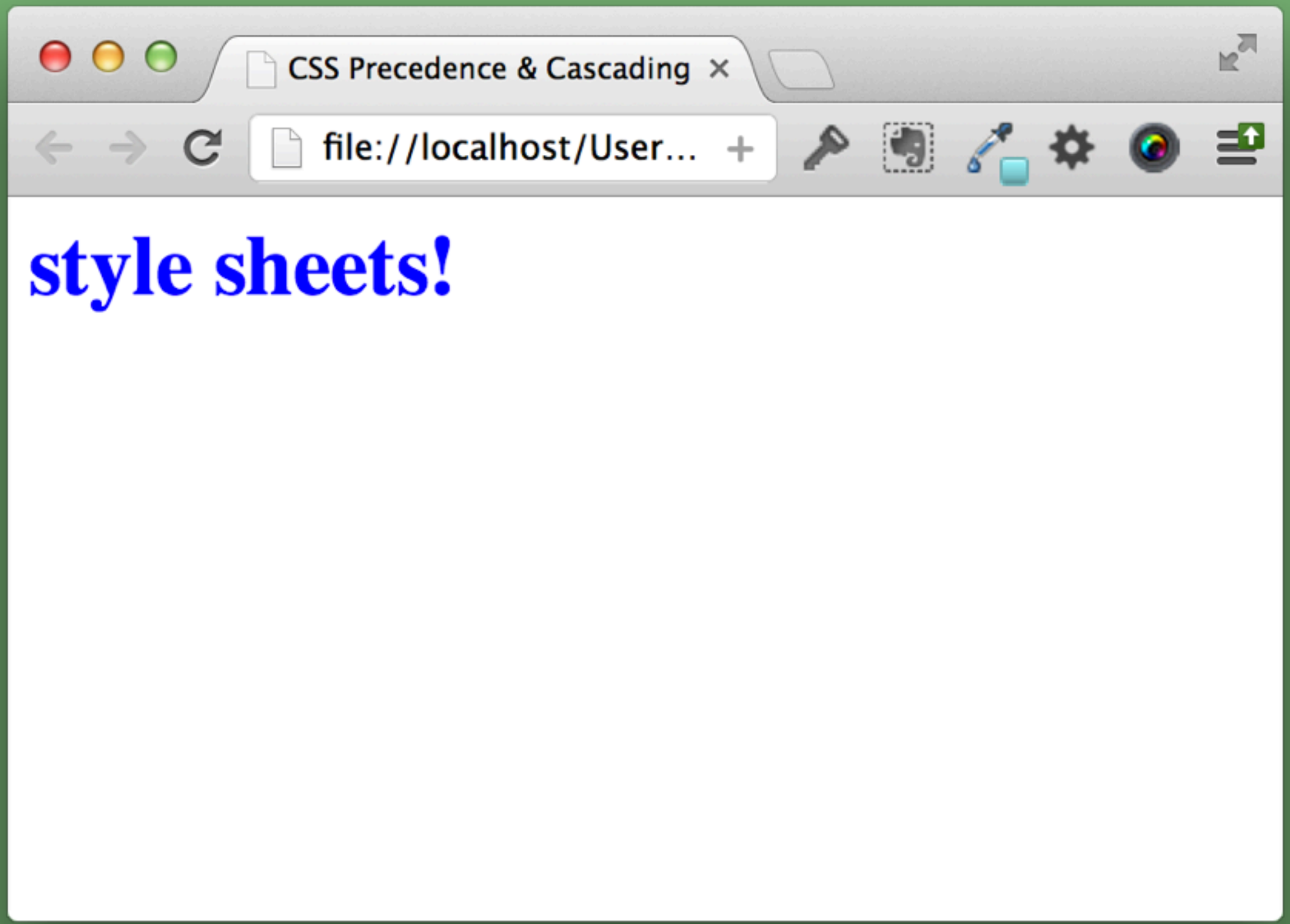
```
h2 {
  color: red !important;
}
```

- Trumps other rules
- Use sparingly - method of last resort

WHAT COLOR IS THE TEXT?

```html
<div id="main" class="foo">
  <h1 id="heading" class="bar baz">
    style sheets!
  </h1>
</div>
```

```css
.bar {
  color: blue !important;
}
.baz {
  color: red;
}
```


CSS Precedence & Cascading
file://localhost/User…
style sheets!

CSS REFERENCES

- Mozilla Developer Network
- HTML Dog

ACTIVITY: CONTINUE SITE

1. Focus on styling
2. Adjust HTML, as needed
3. Use CSS & HTML references (Mozilla Developer Network)