
RESPONSIVE WEB DESIGN II

Lecture 3

TODAY'S TOPICS



- CSS Cascade
- CSS Inheritance
- CSS Specificity
- **Participation:** Bad Piggies

ANNOUNCEMENTS



- Sign-in Sheet
- Recording

CASCADE, INHERITANCE & SPECIFICITY

WHAT COLOR?

```
<header id="header" class="header">  
  <h1 id="title" class="title">  
    Hello, Class  
  </h1>  
</header>
```

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

RED

WHAT COLOR?

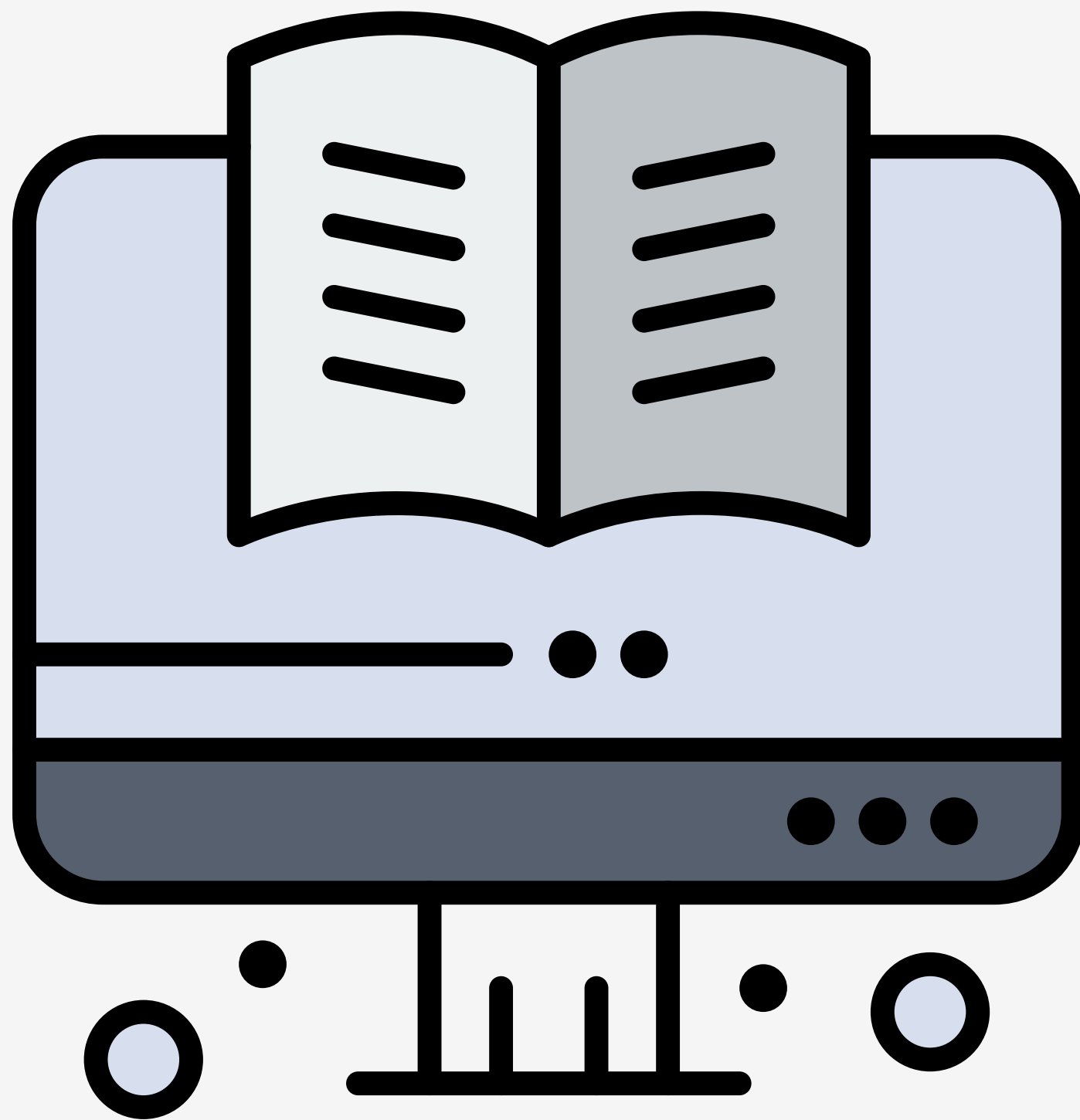
```
<header id="header" class="header">  
  <h1 id="title" class="title">  
    Hello, Class  
  </h1>  
</header>
```

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

```
h1 {  
  color: green;  
}
```

GREEN

CASCADE



- **Cascade** is a method of determining how to combine property values from different sources
- It is a fundamental part of CSS
- Hence, *Cascading* Style Sheets

WHAT COLOR?

```
<header id="header" class="header">  
  <h1 id="title" class="title">  
    Hello, Class  
  </h1>  
</header>
```

```
header {  
  color: red;  
}
```

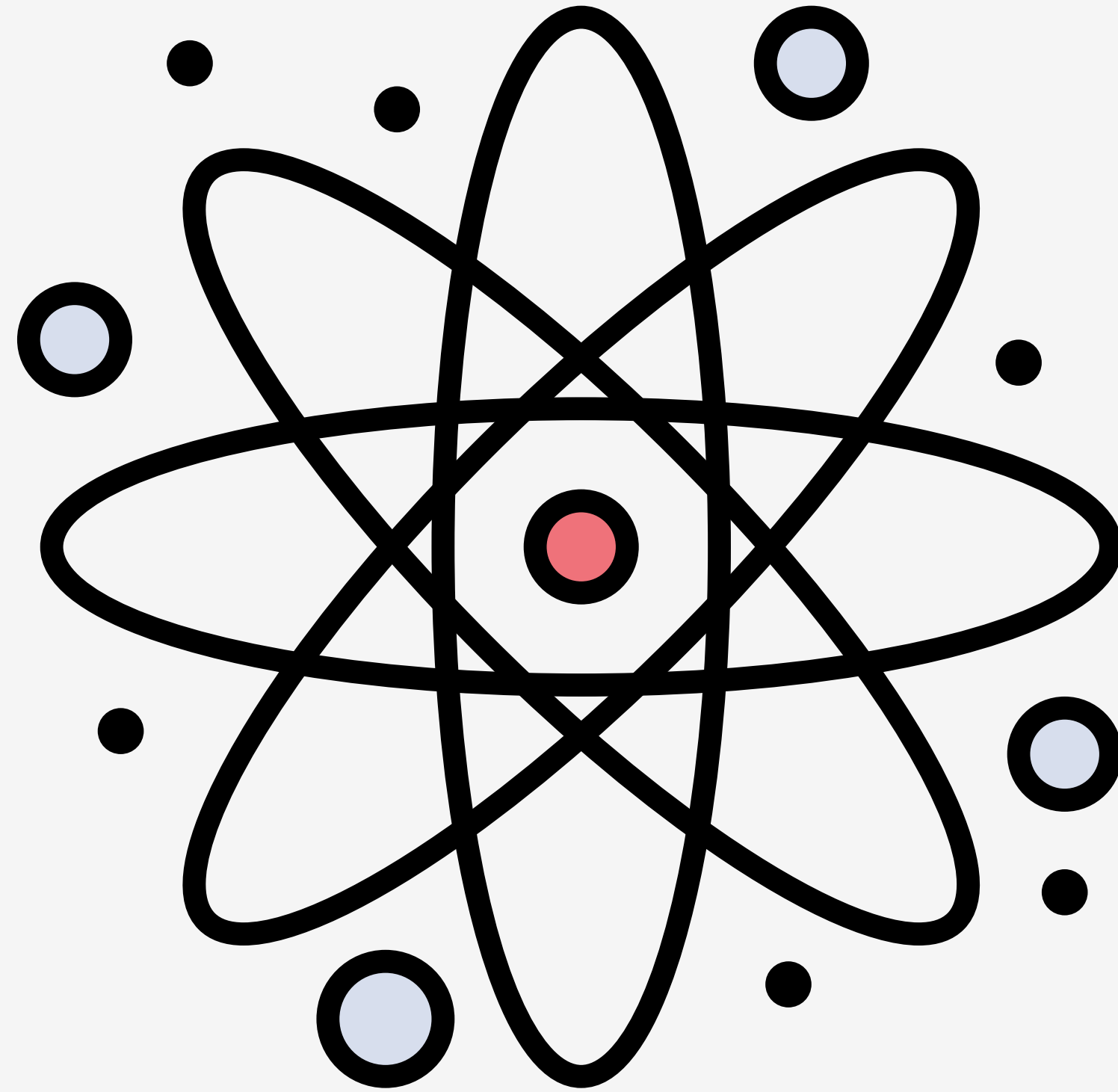
RED

WHAT
COLOR?

```
<header id="header" class="header">  
  <h1 id="title" class="title">  
    Hello, Class  
  </h1>  
</header>
```

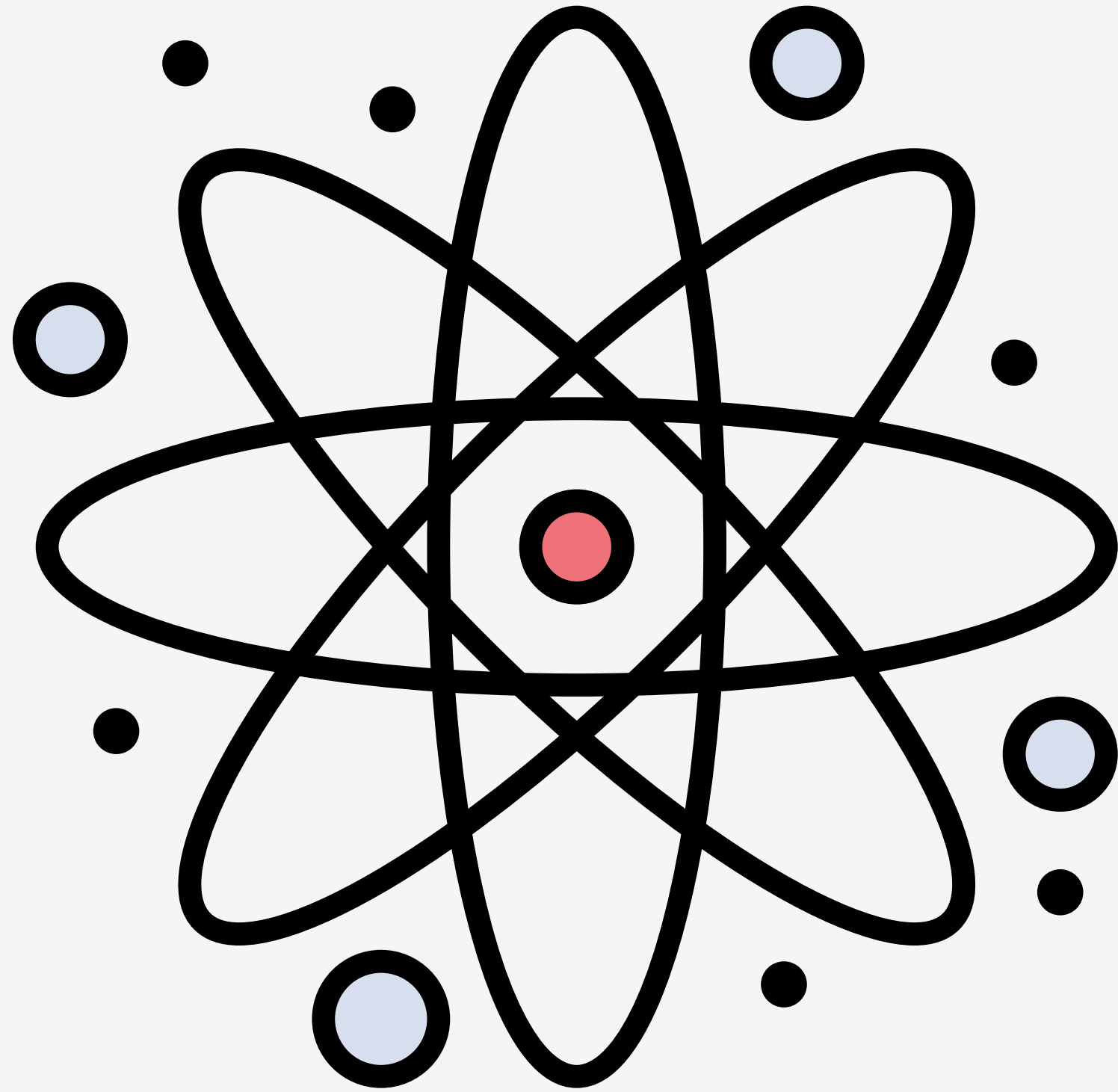
BLACK?

INHERITANCE



- Applying a parent's styles to a child
- Occurs on certain properties when no value are directly available for the child
- **Inheritance** can be controlled using the following values:
 - `inherit`
 - `initial`
 - `unset`
 - `revert`

ORIGIN



- CSS can come for different origins:
 - user-agent
 - author
 - user
- The user-agent and user stylesheet provide a default style to the document

WHAT COLOR?

```
<header id="header" class="header">  
  <h1 id="title" class="title">  
    Hello, Class  
  </h1>  
</header>
```

```
.title {  
  color: red;  
}
```

```
h1 {  
  color: green;  
}
```

RED

WHAT COLOR?

```
<header id="header" class="header">
  <h1 id="title" class="title">
    Hello, Class
  </h1>
</header>
```

```
.title {
  color: red;
}
```

```
.title {
  color: green;
}
```

GREEN

SPECIFICITY



- **Specificity** is how browsers determine which style declarations are applied
- **Specificity** is calculated by assigning a heavier weight to those selectors that are more specific in nature.
- Where **specificity** is equal between, the last declaration will be prioritized

SPECIFICITY



- Type selectors and pseudo-elements are the least specific
- Class selector, attributes selectors and pseudo-classes are more specific
- ID selectors are even more specific
- The style attribute has the most specificity
- The **!important** keyword will takes priority over everything

SPECIFICITY
0 | 0 | 0 | 1

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

```
p {  
    color: red;  
}
```

```
a {  
    color: red;  
}
```


SPECIFICITY

0 | 0 | 1 | 0

```
.title {  
  color: red;  
}
```

```
[type="text"] {  
  color: red;  
}
```

```
:hover {  
  color: red;  
}
```

SPECIFICITY
0 | 1 | 0 | 0

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

```
#title {  
  color: red;  
}
```

SPECIFICITY

1 | 0 | 0 | 0

```
<header id="header" class="header">
  <h1 id="title" class="title"
    style="color: red">
    Hello, Class
  </h1>
</header>
```

SPECIFICITY
0 | 1 | 1 | 1

```
#header h1.title {  
  color: red;  
}
```

SPECIFICITY
0 | 2 | 2 | 1

```
#header.header h1#title.title {  
  color: red;  
}
```

WHAT SPECIFICITY?

```
.header h1.title span {  
  color: red  
}
```

0 1 0 1 2 1 2

WHAT SPECIFICITY?

```
header#header.header h1#title.title:first-child  
{  
  color: red;  
}
```

0 1 2 1 3 1 2

```
html body main section article header div h1
small strong em span {
  color: red;
}
```

WHAT SPECIFICITY?

o | o | o | 12

WHAT COLOR?

```
<header id="header" class="header">  
  <h1 id="title" class="title">  
    Hello, Class  
  </h1>  
</header>
```

```
.title {  
  color: red;  
}
```

```
h1 {  
  color: green;  
}
```

RED

WHAT COLOR?

```
<header id="header" class="header">
  <h1 id="title" class="title">
    Hello, Class
  </h1>
</header>
```

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

```
header .title {
  color: green;
}
```

GREEN

WHAT COLOR?

```
<header id="header" class="header">
  <h1 id="title" class="title">
    Hello, Class
  </h1>
</header>
```

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

```
.header h1.title {
  color: green;
}
```

GREEN

WHAT COLOR?

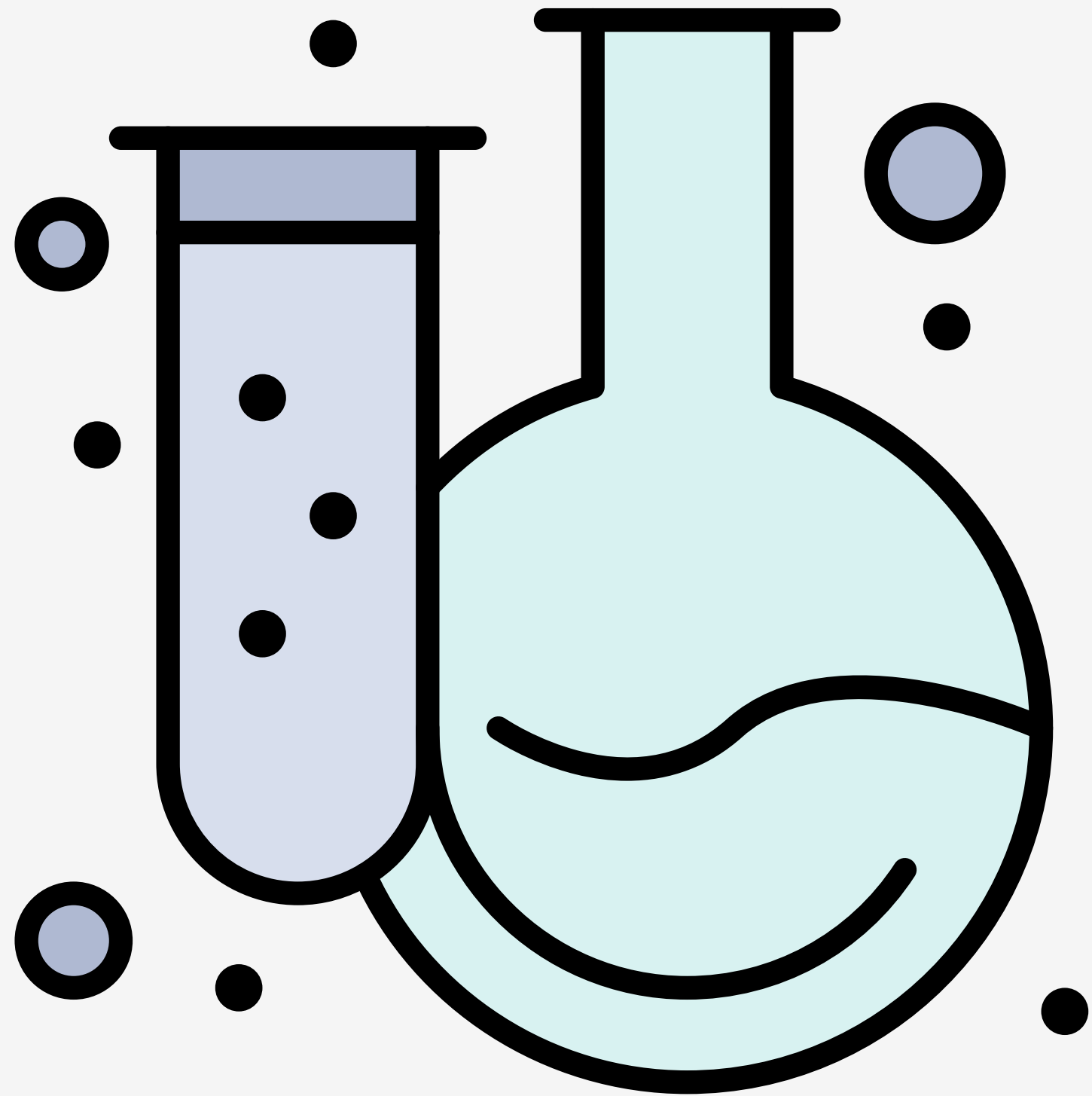
```
<header id="header" class="header">
  <h1 id="title" class="title">
    Hello, Class
  </h1>
</header>
```

```
#title {
  color: red;
}
```

```
header.header h1.title {
  color: green;
}
```

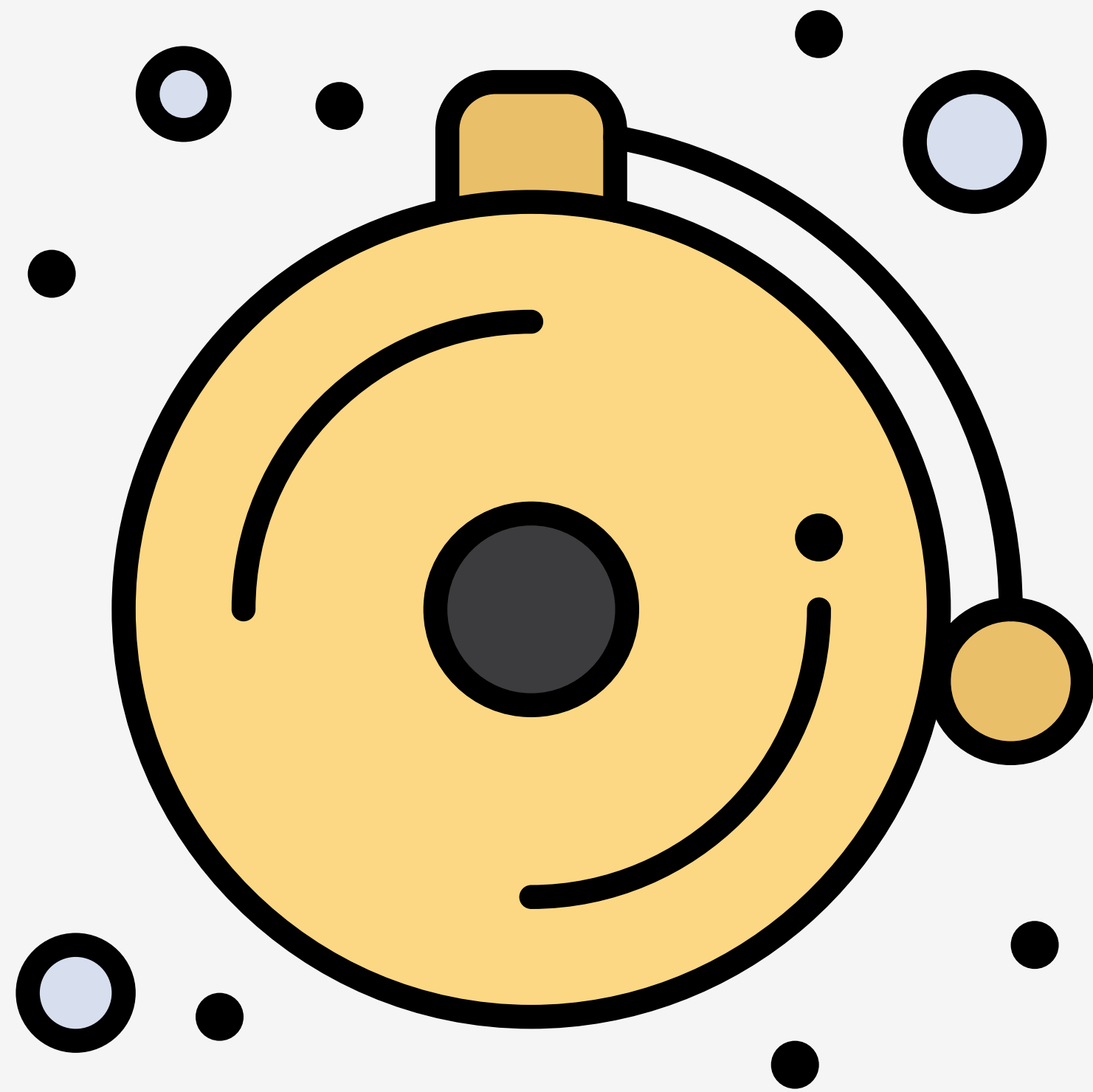
RED

BAD PIGGIES



- *FORK THE PEN!*
- Using the lowest specificity possible, change the **background-color** of each piggy
- You styles are being applied *BEFORE* the styles that are making the piggies RED.
- Do *NOT* change the HTML
- Submit the URL to your pen
- *DUE:* Tue. Jan 14 @ 11:59 PM

NEXT TIME...



- Assignment Expectations
- **Exercise:** Page Redesign