
RESPONSIVE WEB DESIGN II

Lecture 18

TODAY'S TOPICS



- Sass Mixins
- Sass @Extend
- Sass Parent Selector

ANNOUNCEMENTS

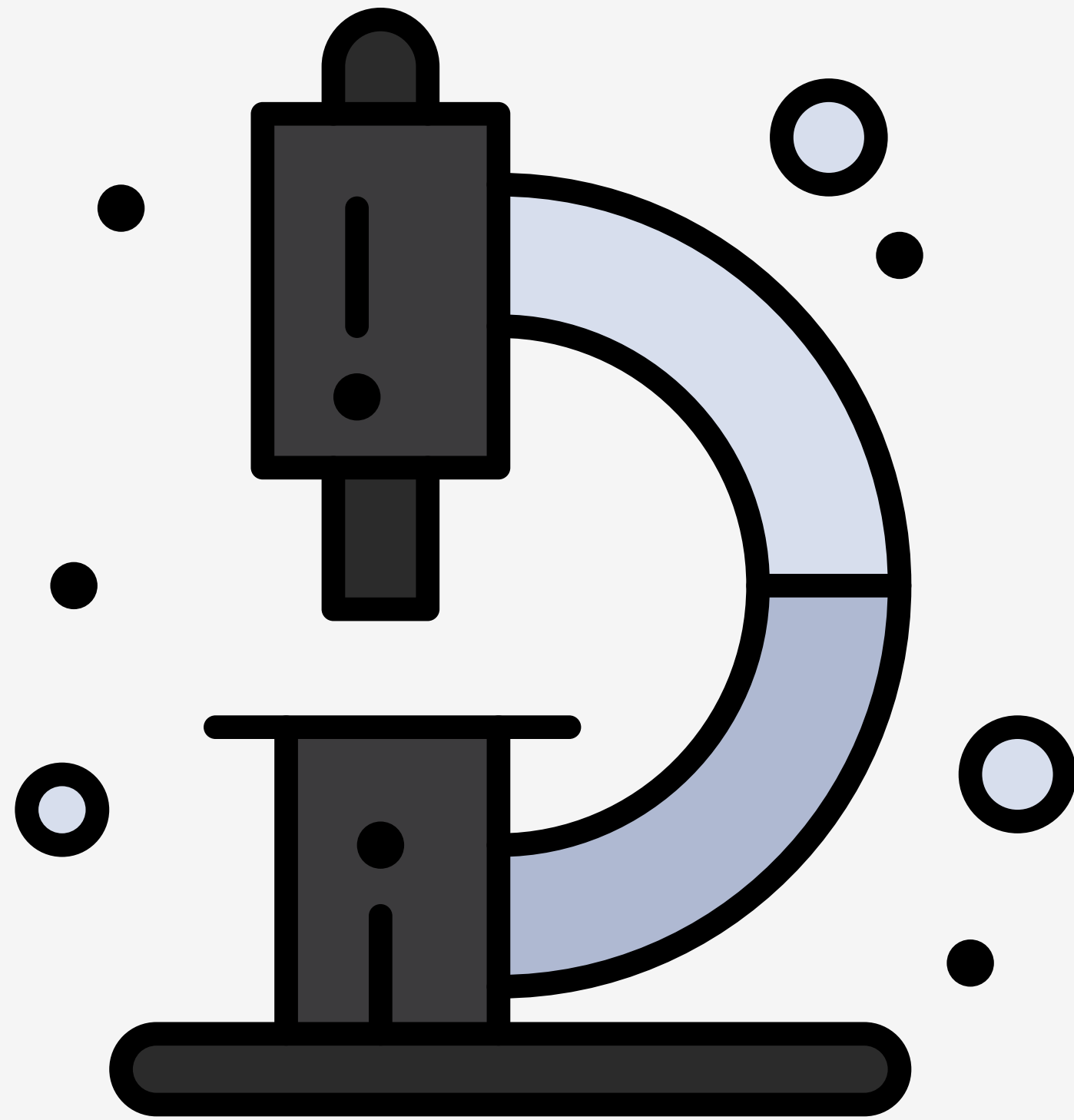
- Sign-in Sheet



QUESTIONS

SASS MIXINS

SASS MIXINS



- **Mixins** are like functions that return CSS styles
- **Mixins** are defined using `@mixin` rule and take arguments
- **Mixins** are "called" using the `@include` rule

```
/* Sass */
@mixin backgroundImage ($image) {
    background-image: url($image);
    background-repeat: no-repeat;
    background-position: center center;
    background-size: cover;
}

.jumbotron {
    @include backgroundImage('water.jpg');
}

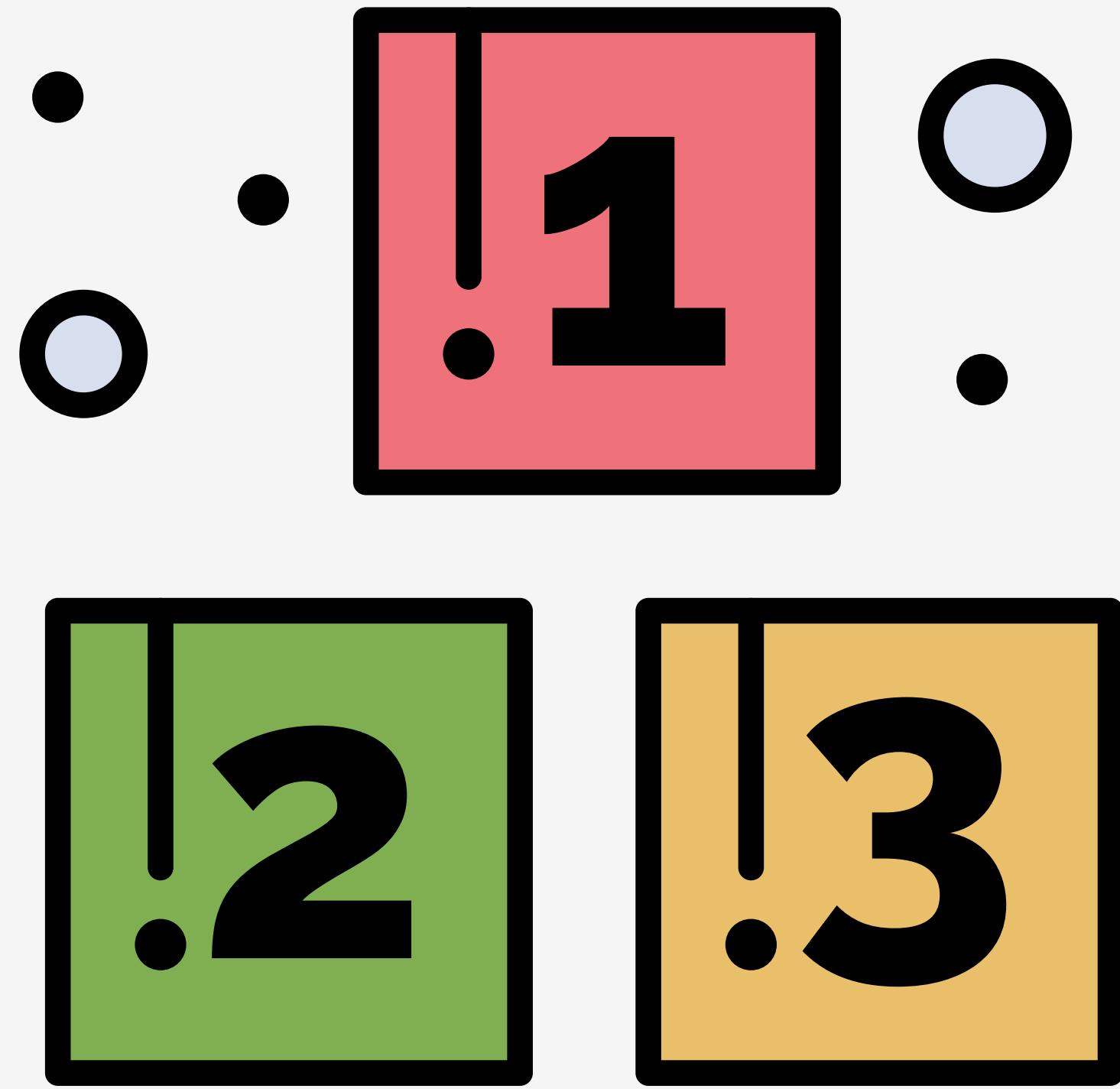
.bridge {
    @include backgroundImage('bridge.jpg');
}
```

```
/* CSS */
.jumbotron {
    background-image: url("water.jpg");
    background-repeat: no-repeat;
    background-position: center center;
    background-size: cover;
}

.bridge {
    background-image: url("bridge.jpg");
    background-repeat: no-repeat;
    background-position: center center;
    background-size: cover;
}
```

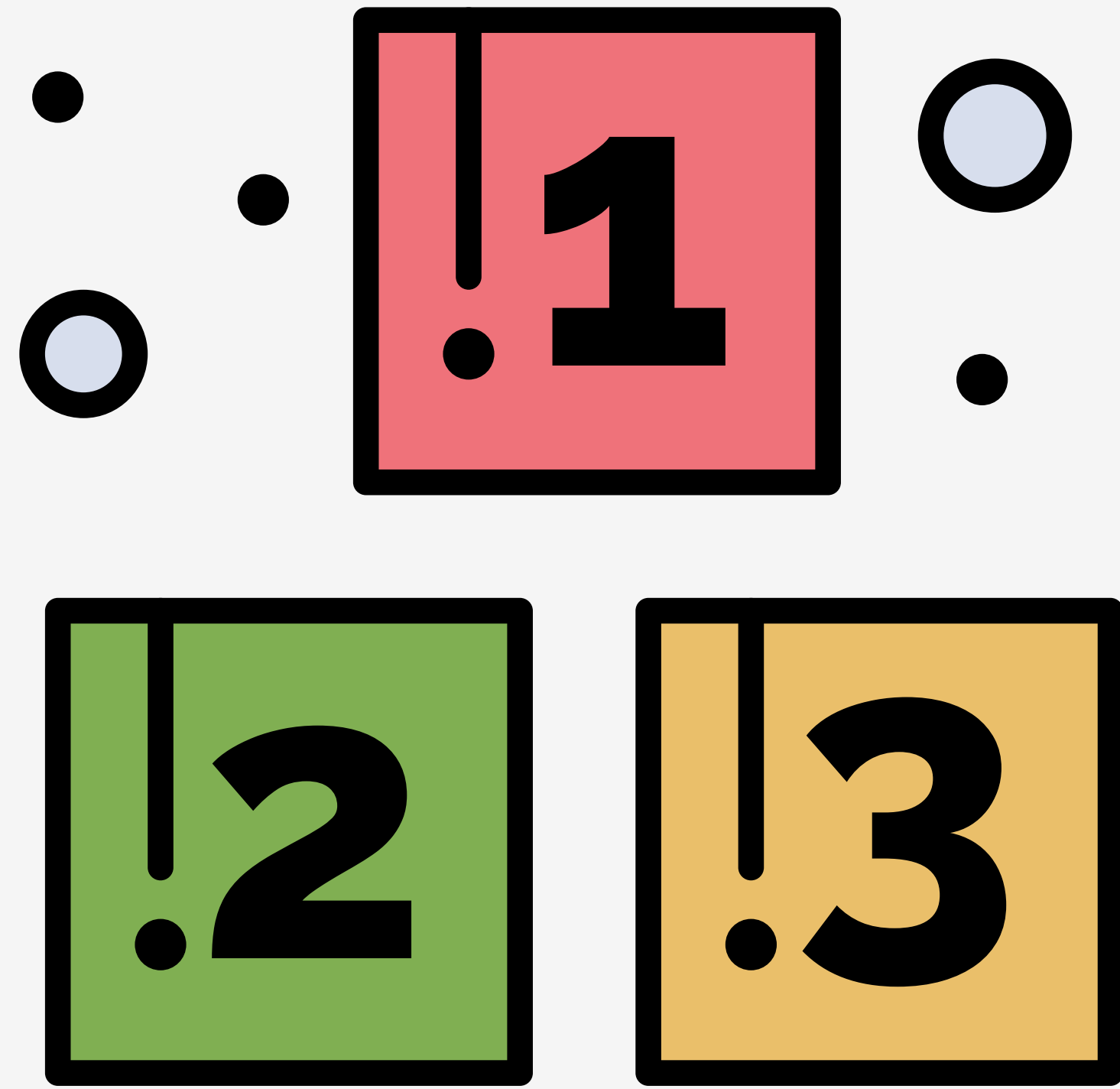
SASS @EXTEND

SASS @EXTEND



- The `@extend` rule allows for one selector to inherit the styles of another
- The "child" selector can then override any inherited styles.

SASS PLACEHOLDER SELECTOR



- The **placeholder selector** starts with a % and it not include in the CSS output
- Any CSS contained in a **placeholder selector** will only appear if used in conjunction with the **@extend** rule

```
/* Sass */
```

```
%btn {
```

```
  display: inline-block;
```

```
  padding: 6px 12px;
```

```
  text-align: center;
```

```
  background-color: grey;
```

```
  color: #fff;
```

```
}
```

```
/* CSS */
```

```
/* Sass */
%btn {
  display: inline-block;
  padding: 6px 12px;
  text-align: center;
  background-color: grey;
  color: #fff;
}

.btn-hot {
  @extend %btn;
  background-color: #D14348;
}

.btn-cool {
  @extend %btn;
  background-color: #0076A3;
}
```

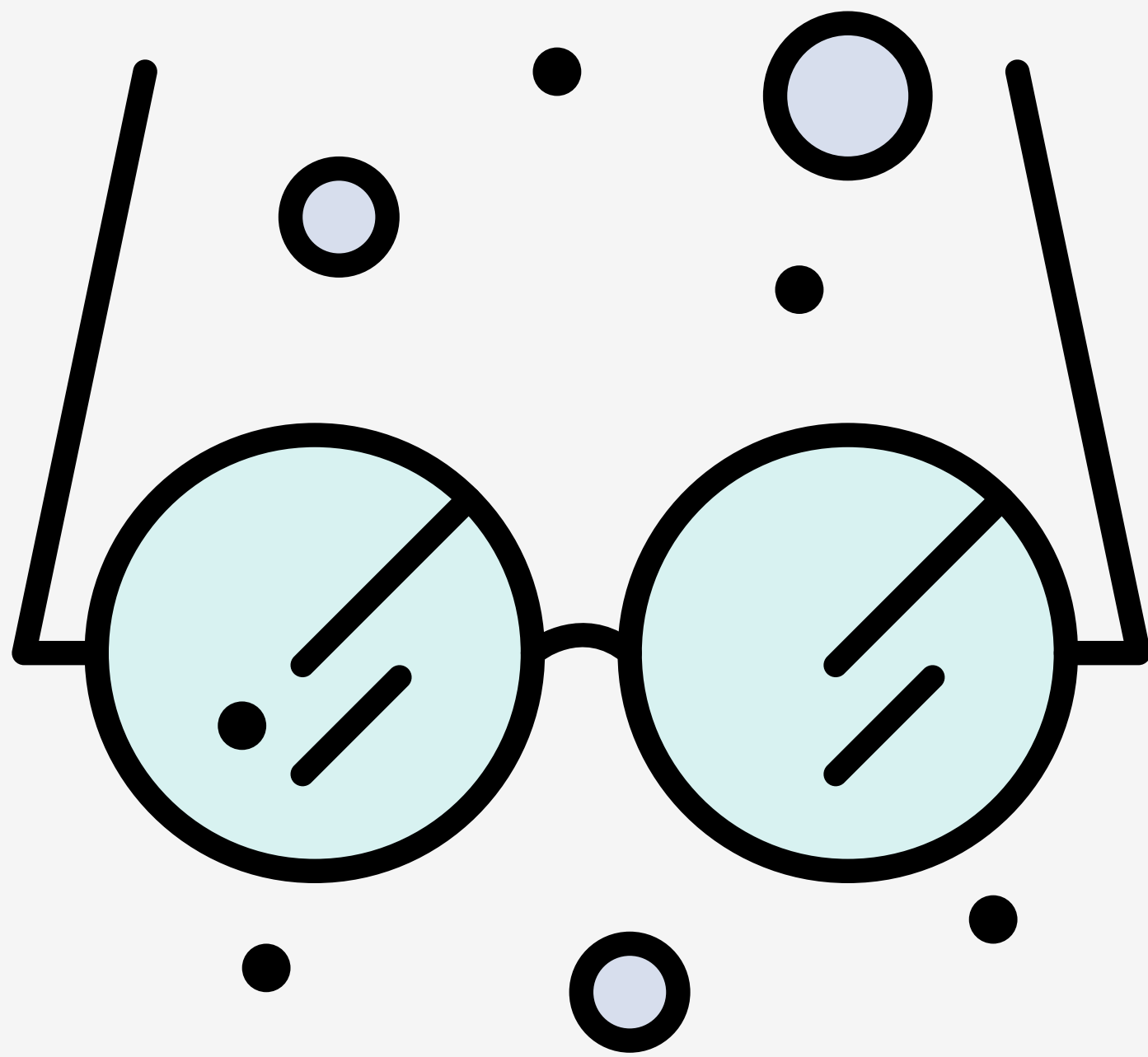
```
/* CSS */
.btn-hot, .btn-cool {
  display: inline-block;
  padding: 6px 12px;
  text-align: center;
  background-color: grey;
  color: #fff;
}

.btn-hot {
  background-color: #D14348;
}

.btn-cool {
  background-color: #0076A3;
}
```

SASS PARENT SELECTOR

SASS PARENT SELECTOR



- The **parent selector** (**&**) is used to refer to the outer selector when nesting
- The **parent selector** can be used to make complex selectors or structured class names

```
/* Sass */  
a {  
  color: blue;  
  
  &:hover {  
    text-decoration: underline  
  }  
  
  &.active {  
    font-weight: bold;  
  }  
  
  .upper {  
    text-transform: uppercase;  
  }  
}
```

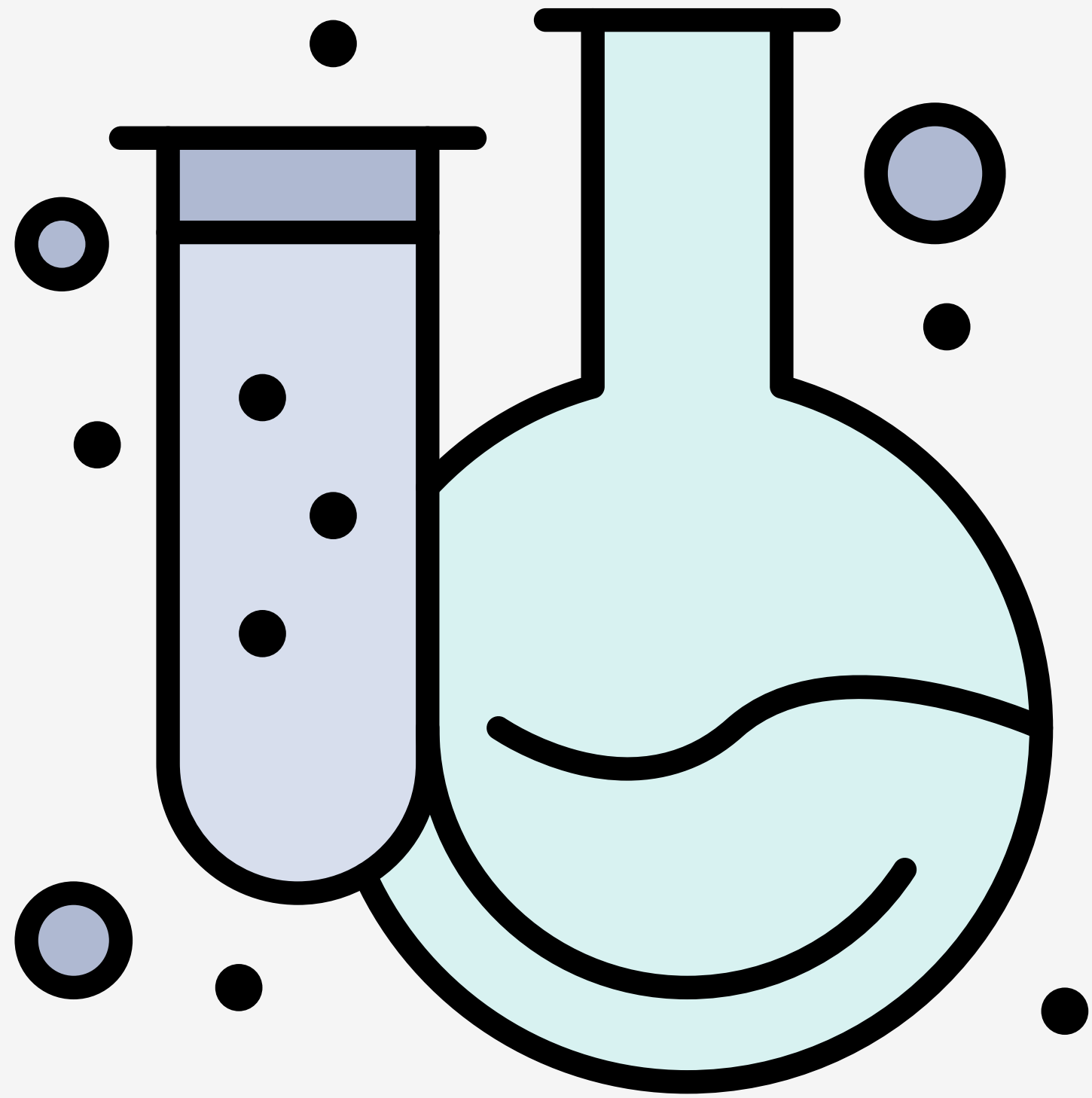
```
/* CSS */  
a {  
  color: blue;  
}  
  
a:hover {  
  text-decoration: underline;  
}  
  
a.active {  
  font-weight: bold;  
}  
  
a .upper {  
  text-transform: uppercase;  
}
```

```
/* Sass */  
.nav {  
  display: flex;  
  
  &-link {  
    padding: 10px;  
  }  
}
```

```
/* CSS */  
.nav {  
  display: flex;  
}  
  
.nav-link {  
  padding: 10px;  
}
```

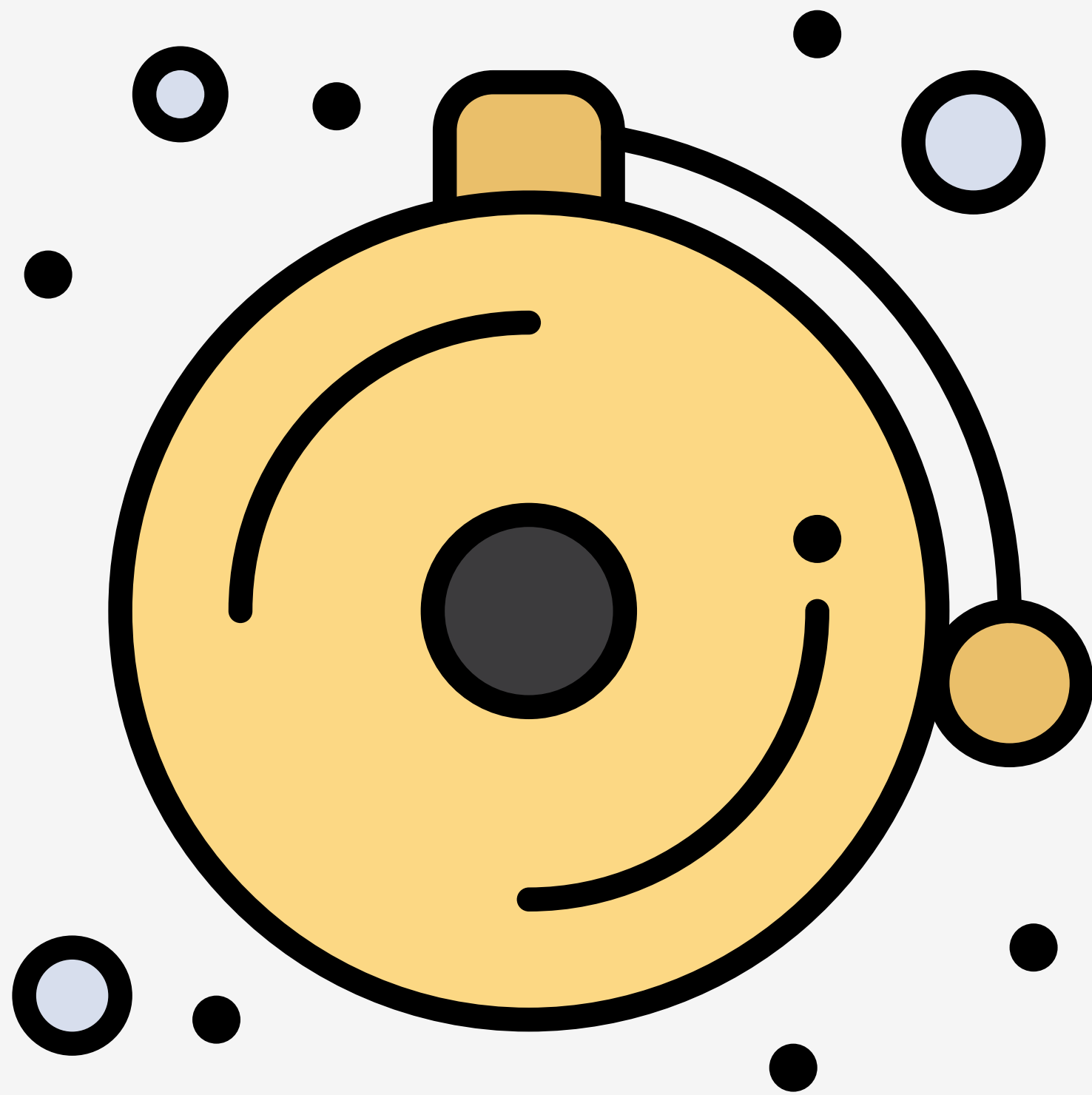

HANDS-ON

MIXIN MIXUP



- *FORK THE PEN!*
- Fix the errors in the SCSS code
- Submit the URL to your pen
- *DUE:* Thu. Mar 24 @ 11:59 PM

NEXT TIME...



- SassScript
- **Participation:** Sassy Cats
- **Exercise:** Sassy Shapes