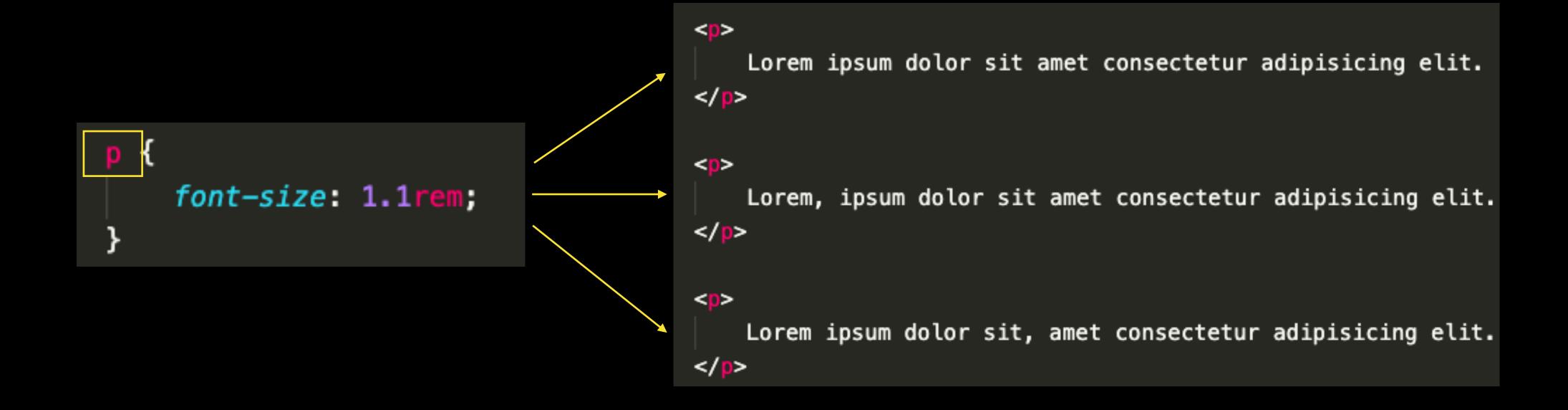
Web Design

CSS Selectors & Positioning

A rule is applied to all elements that meet the selector's criteria



Combinators

- Combinators can be used in selectors to add more specificity
- Examples:
 - "" (space): descendant
 - ">": child
 - "~": sibling
 - "+": adjacent sibling

Universal Selector

• The universal selector "*" (asterisk) can be used to style all elements at once

CSS Classes

 CSS classes allow us to create specific style cases that can be applied to specific elements

```
  Lorem ipsum dolor sit amet consectetur adipisicing elit.
```

```
.example {
    font-size: 1.5rem;
}

Or

p.example {
    font-size: 1.5rem;
}
```

Cascading

Cascading

- CSS rules are overwritten by rules with more specific selectors
- Selector specificity (decreasing order):
 - 1: inline (`style="property: value;"`)
 - 2: id (*#example*)
 - 3: class (`.example`)
 - 4: type (h1)
 - 5: definition order (later is stronger)

Cascading

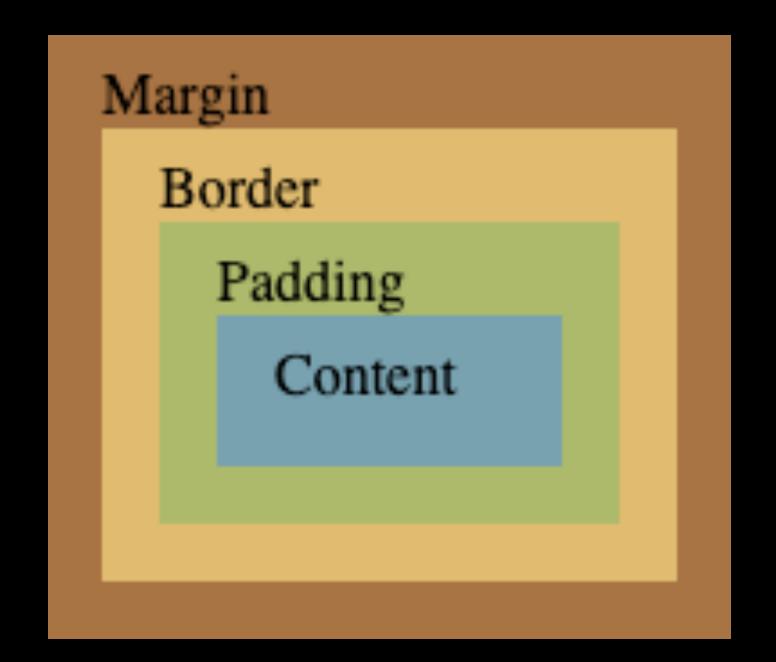
What color is the following paragraph?

```
#element-id {
   color: ■ red;
.element-class {
   color: blue;
   color: __yellow;
   color: ■green;
```

CSS Box Model

CSS Box Model

- HTML elements can be thought of as boxes. In CSS the box model refers to design and layout of HTML elements
- The amount of space an HTML element takes up is composed of four pieces:
 - Content: the text and sub-elements of the element
 - Padding: spacing between content and the border/edge (set with the padding attribute)
 - Border: line around the element (set with the border property)
 - Margin: spacing around the outside of the element (set with the margin property)



CSS Box Model (cont.)

- Check your understanding:
 - How much space horizontally does an element take up with the following CSS properties:
 - content width of 50px
 - padding of 5px
 - border of 1px
 - margin of 10px

Simplifying Box Sizing

- By default, HTML elements have the CSS box-sizing property set to contentbox, meaning that the width and height properties affect only the content box and any margin and borders are added on afterwards
- To make it easier to reason about the size of HTML elements we can set the box-sizing property to the border-box
 - This means that the width and height properties account for padding and border widths as well

```
* {
    box-sizing: border-box;
}
```

CSS Position

Position

- CSS uses position to decide where to place an element
- Default position is static, meaning after the element before and before the element after (in the HTML code)
- Other values:
 - absolute (stuck to a specified place in the document)
 - fixed (stuck to a specified place in the window)
 - sticky (static then fixed when scrolled to)
 - relative (descendants will use this element when deciding where to go with absolute/ fixed positioning)