Black & White Series

Separation Content-Style

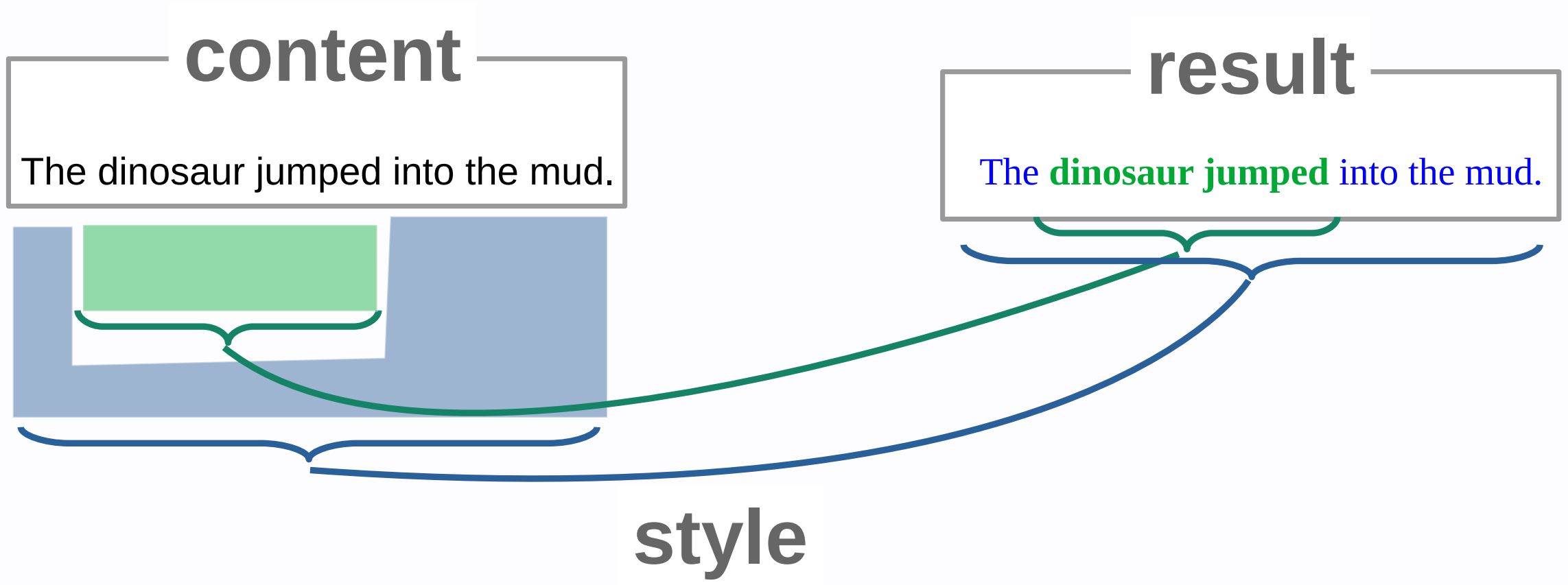## CSS - Cascading Style Sheet

CSS

Cascading Style Sheets

- Styling language
- First release by W3C in 1996
- Describes presentation of HTML and XML documents

Last Styling Example

```html
<html>
  <body>
    <h1 style="font-family:Arial">Dinosaur Story</h1>
    <p style="color:blue">
      The <b style="color:green">dinosaur jumped</b> into the mud.
    </p>
  </body>
</html>
```
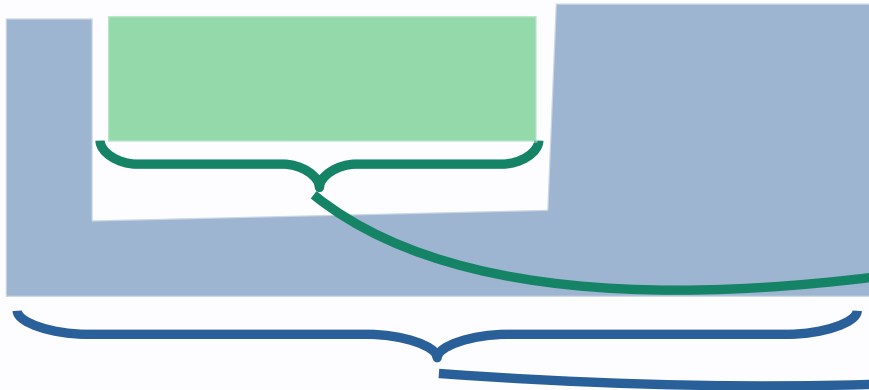
Separation Content-Style

content

The dinosaur jumped into the mud.

result

The **dinosaur jumped** into the mud.

style

HTML & CSS

HTML

The dinosaur jumped into the mud.

result

The **dinosaur jumped** into the mud.

CSS

style element - head

```html
<!DOCTYPE html>
<html>
  <head>
    <style>
      h1 {
        font-family: Arial;
      }
      p {
        color: blue;
      }
      b {
        color: green;
      }
    </style>
  </head>
  <body>
    <h1>Dinosaur Story</h1>
    <p>The <b>dinosaur jumped</b> into the mud.</p>
  </body>
</html>
```

Styling Elements

Three strategies based on:

- element tags
- classes
- unique identifiers

Styling Elements by Tag

- Styles all elements with the same tag

```
<style>
  h1 {
    font-family: Arial;
  }
  p {
    color: blue;
  }
</style>
...
<p>Author: Asdrubal</p>
<h1>Dinosaur Story</h1>
<p>The dinosaur jumped into the mud.</p>
```

Styling Elements by Tag

Author: Asdrubal

Dinosaur Story

The dinosaur jumped into the mud.

Styling Elements by Class

- Styles all elements with the same class
  - a class is prefixed by a dot

```
<style>
  .story {
    color: blue;
  }
</style>
...
<p>Author: Asdrubal</p>
<h1 class="story">Dinosaur Story</h1>
<p class="story">The dinosaur jumped into the mud.</p>
```

Styling Elements by Class

Author: Asdrubal

Dinosaur Story

The dinosaur jumped into the mud.

Styling Elements by Id

- Styles an element identified by an id
  - the id attribute value is unique

```
<style>
  #author {
    color: blue;
  }
</style>
...
<p id="author">Author: Asdrubal</p>
<h1>Dinosaur Story</h1>
<p>The dinosaur jumped into the mud.</p>
```

Styling Elements by Id

Author: Asdrubal

Dinosaur Story

The dinosaur jumped into the mud.

External CSS File

05-5-css-external.html

```html
<!DOCTYPE html>
<html>
  <head>
    <title>Dinosaur Story</title>
    <link rel="stylesheet" href="css/general-style.css">
  </head>
  <body>
    <p id="author">Author: Asdrubal</p>
    <h1>Dinosaur Story</h1>
    <p class="story">The dinosaur jumped into the mud.</p>
  </body>
</html>
```

general-style.css

```css
h1 {
  font-family: Arial;
}

p {
  font-size: 16pt;
}

.story {
  color: gray;
}

#author {
  color: blue;
}
```

css

Author: Asdrubal

Dinosaur Story

The dinosaur jumped into the mud.

Central CSS for Pages

```html
<!DOCTYPE html>
<html>
  <head>
    <title>Dinosaur Story</title>
    <link rel="stylesheet" href="css/general-style.css">
  </head>
  <body>
    <p id="author">Author: Asdrubal</p>
    <h1>Dinosaur Story</h1>
    <p class="story">The dinosaur jumped into the mud.</p>
  </body>
</html>
```
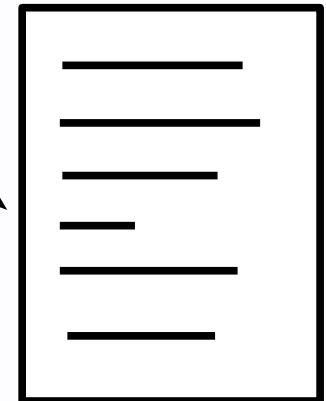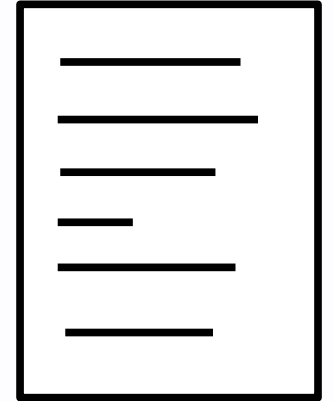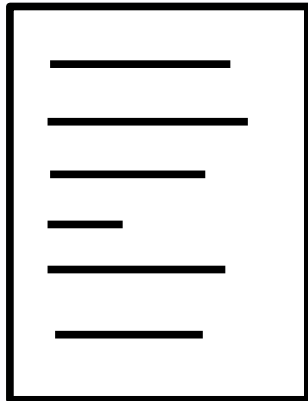
CSS

```css
h1 {
    font-family: Arial;
}

p {
    font-size: 16pt;
}

.story {
    color: gray;
}

#author {
    color: blue;
}
```

Videos / Tutorials

W3Schools HTML Tutorial

https://www.w3schools.com/html/

Web and Semantic Web 2015 Playlist

https://youtube.com/playlist?list=PL3JRjVnXiTBZpnuD7ZtJ3fdNsCcR5Oy7B

André Santanchè

www.ic.unicamp.br/~santanch/

Web2Learn

santanche.github.io/web2learn/