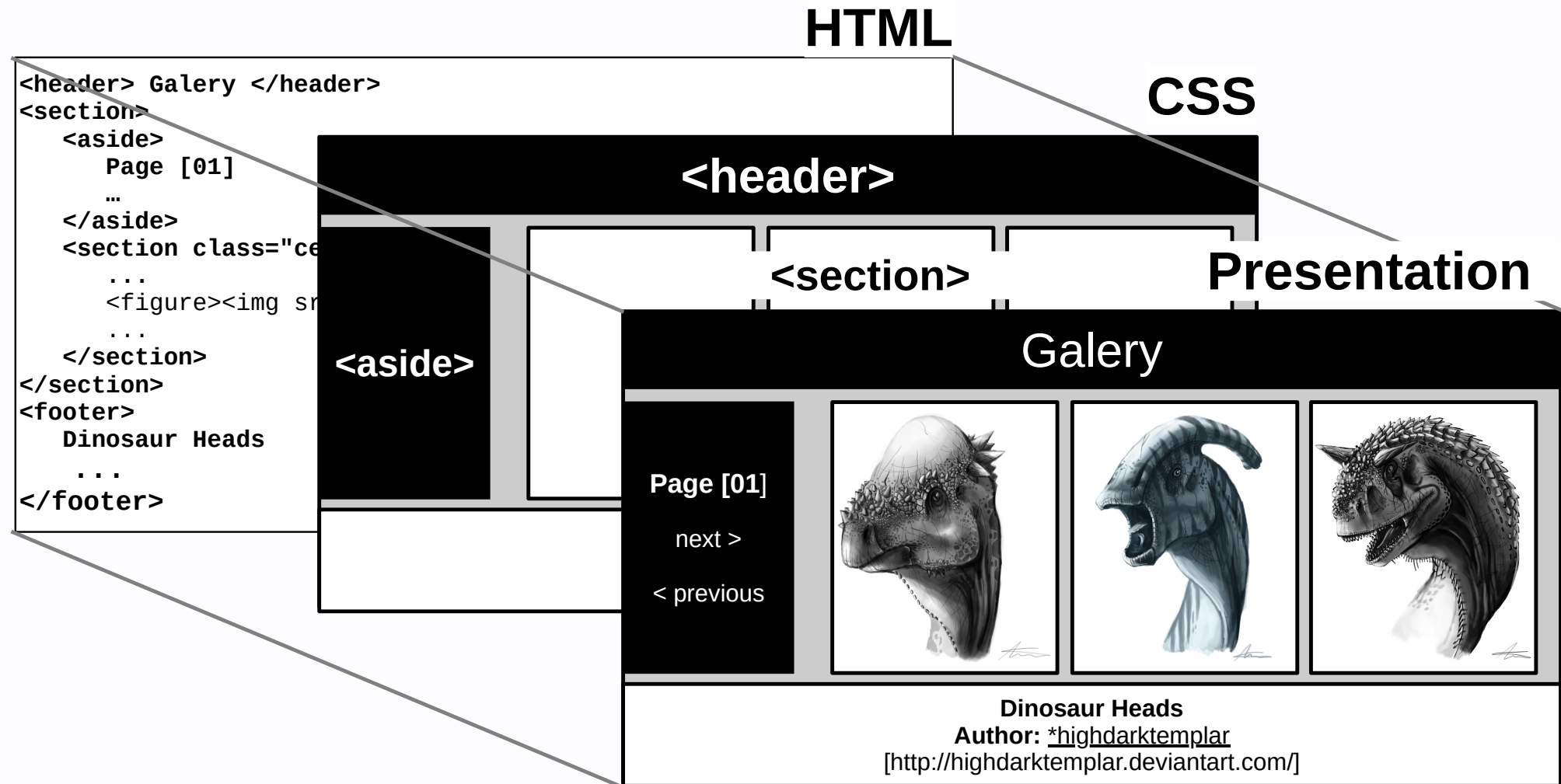


Black & White Series

**DOM**

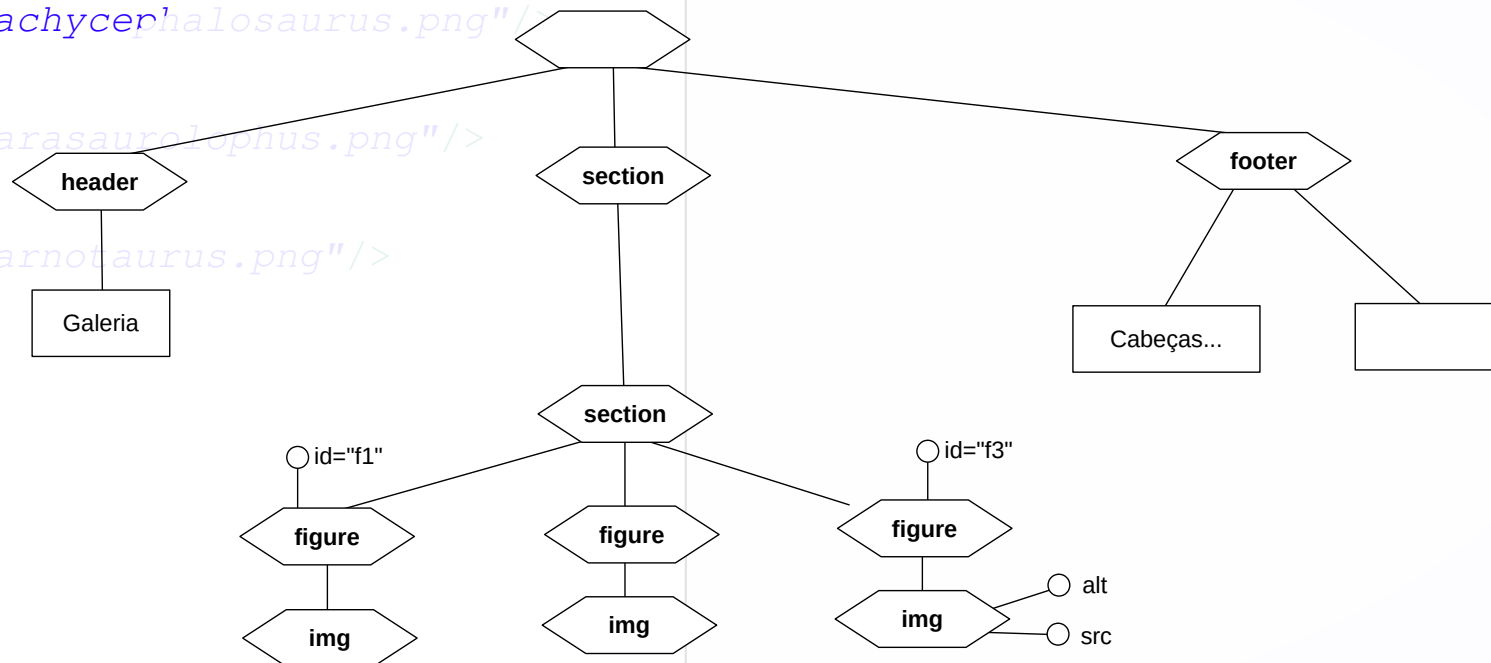
**Document Object Model**

# Web Layers

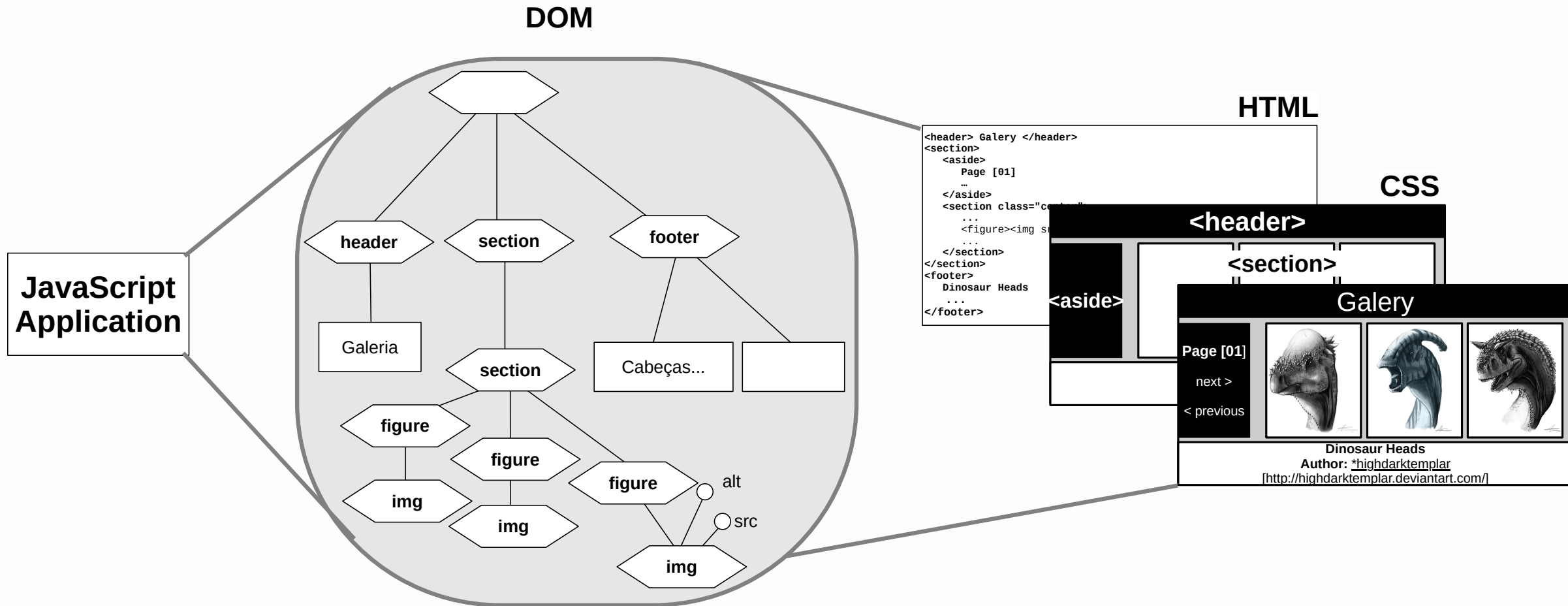


# DOM Tree

```
<html>
...
<body>
<header>
  Galeria
</header>
<section class="main">
  ...
  <section class="center">
    <figure id="f1">
      
    </figure>
    <figure id="f2">
      
    </figure>
    <figure id="f3">
      
    </figure>
  </section>
</section>
<footer>
  Cabeças...
</footer>
</body>
</html>
```



# JavaScript DOM View



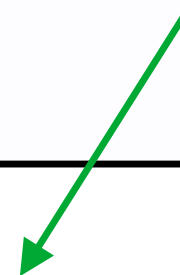
# Defining a **span** Target

04-1-dom.html

```
<html>
  <body>
    Weekday: <span id="show-wd"></span>
    <script type="text/javascript" src="js/04-1-dom.js">
    </script>
  </body>
</html>
```

Weekday: 

id="show-wd"



# Importing an External JS

04-1-dom.html

```
<html>
  <body>
    Weekday: <span id="show-wd"></span>
    <script type="text/javascript" src="js/04-1-dom.js">
    </script>
  </body>
</html>
```



04-1-dom.js

Weekday:



id="show-wd"

```
const daysOfWeek =
  ['Mon', 'Tue', 'Wed', 'Thu', 'Fri', 'Sat', 'Sun']
const day = Math.trunc(Math.random() * 7)

const spanObj = document.querySelector("#show-wd")
spanObj.innerHTML = daysOfWeek[day]
```

# Retrieving the **span** Object

04-1-dom.js

```
...  
const spanObj = document.querySelector("#show-wd")  
  
spanObj.innerHTML = daysOfWeek[day]
```

id="show-wd"

Weekday:

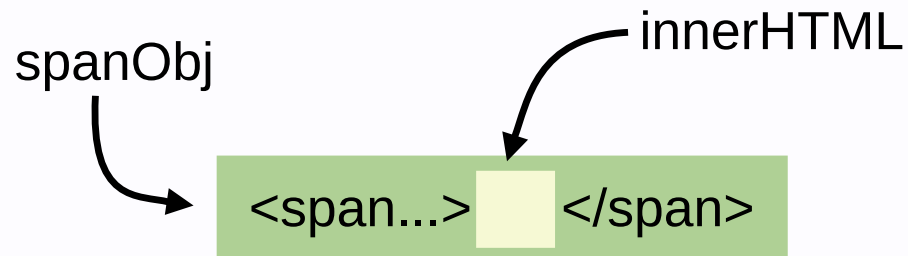


# Inserting HTML content

04-1-dom.js

```
...  
const spanObj = document.querySelector("#show-wd")  
  
spanObj.innerHTML = daysOfWeek[day]
```

id="show-wd"



Weekday:





# CSS Selectors

selector	syntax	examples
type	tag name	p , h1
classe	.classname	.story
identifier	#idname	#show-wd

**Reference:** [mdn CSS selectors](#)

# document.querySelector

```
querySelector(<selector>)
```

- Returns the first element within the document that matches the selector
- This element is a DOM object

**Reference:** [mdn Document.querySelector\(\)](#)

# Element.innerHTML

- JavaScript **property**
- Gets or Sets the HTML inside an element

# div Example

04-1-dom.html

```
<html>
  <body>
    <div id="show-wd"></div>
    <script type="text/javascript" src="js/04-2-dom.js">
    </script>
  </body>
</html>
```



04-2-dom.js

```
const daysOfWeek =
  ['Monday', 'Tuesday', 'Wednesday', 'Thursday', 'Friday', 'Saturday', 'Sunday']
const day = Math.trunc(Math.random() * 7)

const divObj = document.querySelector("#show-wd")
divObj.innerHTML = `<h1>Today is ${daysOfWeek[day]}</h1>`
```

id="show-wd"



# More Complex innerHTML

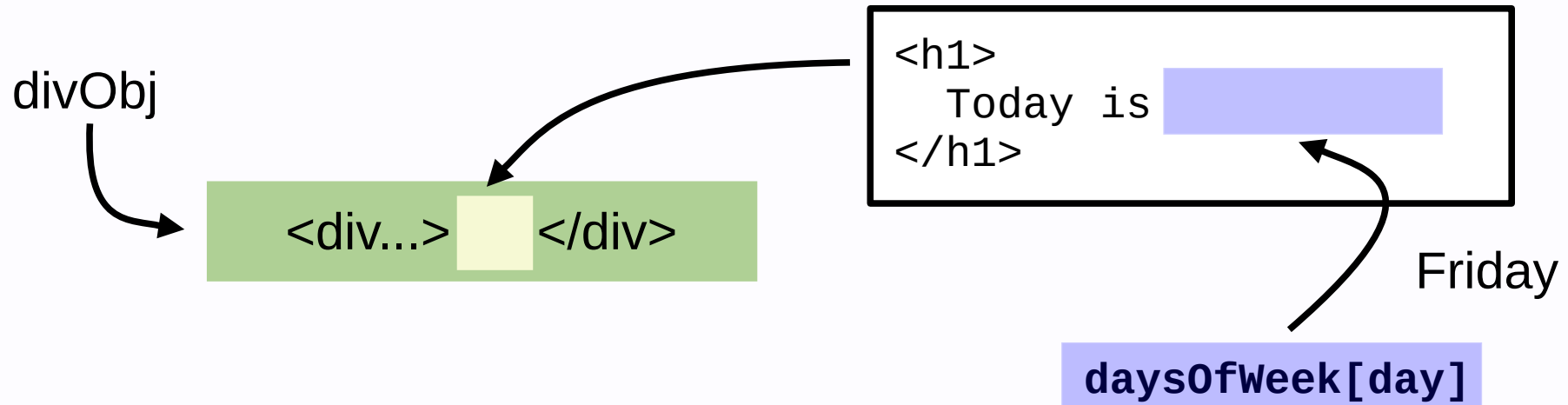
04-2-dom.js

```
...  
const divObj = document.querySelector("#show-wd")
```

```
divObj.innerHTML = `

# Today is ${daysOfWeek[day]}

`
```



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