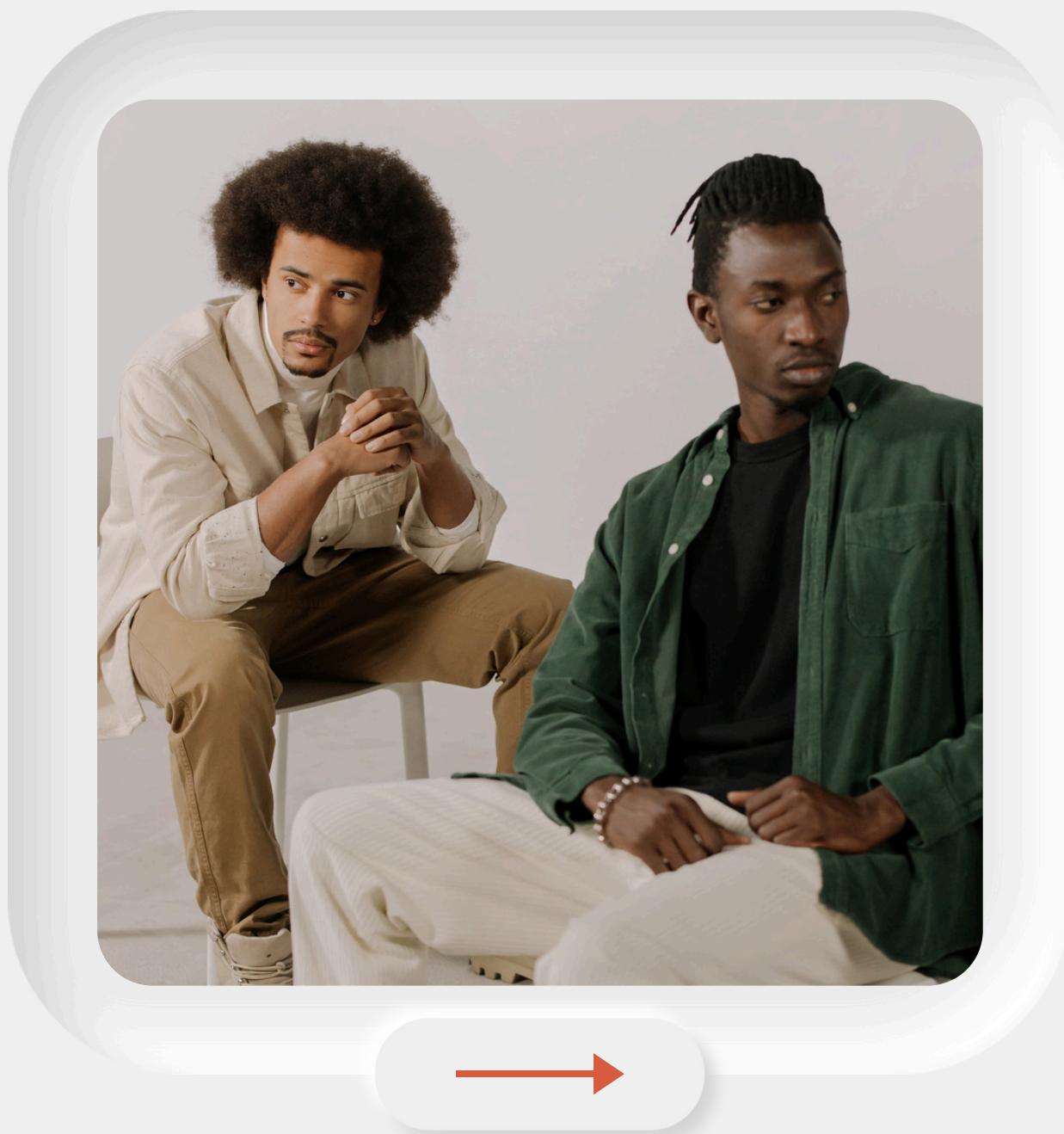


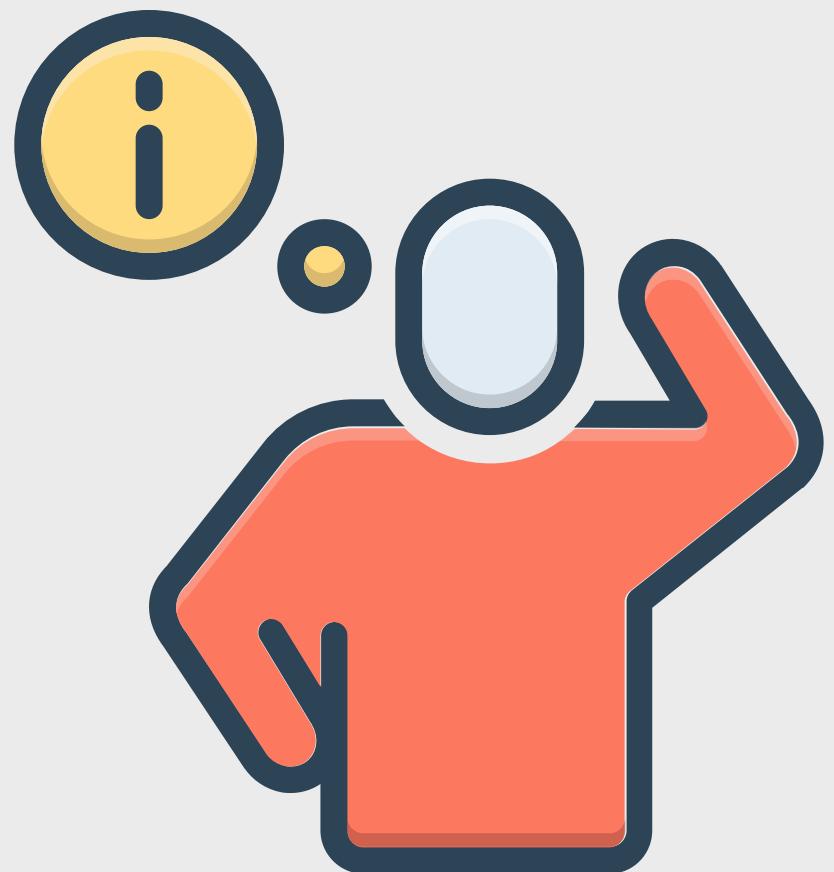


Semantik HTML



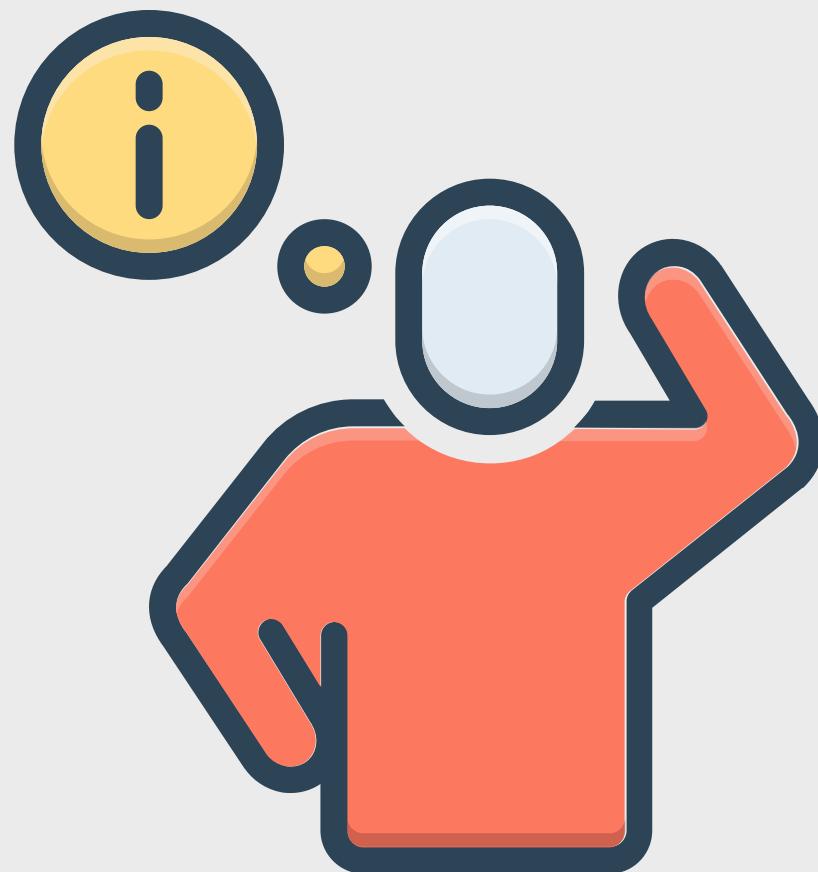
“Relating to meaning in language or logic”

- **se•man•tik, Oxford Dictionary**



**“Berhubungan dengan
makna / arti kata”**

- se•man•tik, Oxford Dictionary





Semantik dalam
pemrograman?



```
int nilai1 = 10;  
int nilai2 = 20;  
  
nilai1 = nilai2;  
nilai2 = nilai1;
```



```
int nilai1 = 10;  
int nilai2 = 20;  
  
nilai1 = nilai2;  
nilai2 = nilai1;
```

Ada yang salah?



```
int nilai1 = 10;  
int nilai2 = 20;  
  
nilai1 = nilai2;  
nilai2 = nilai1;
```

Ada yang salah? Tidak ada.



```
6 // Tukar nilai  
7 int nilai1 = 10;  
8 int nilai2 = 20;  
9  
10 nilai1 = nilai2;  
11 nilai2 = nilai1;
```

Ada yang salah?



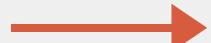
```
6 // Tukar nilai  
7 int nilai1 = 10;  
8 int nilai2 = 20;  
9  
10 nilai1 = nilai2;  
11 nilai2 = nilai1;
```

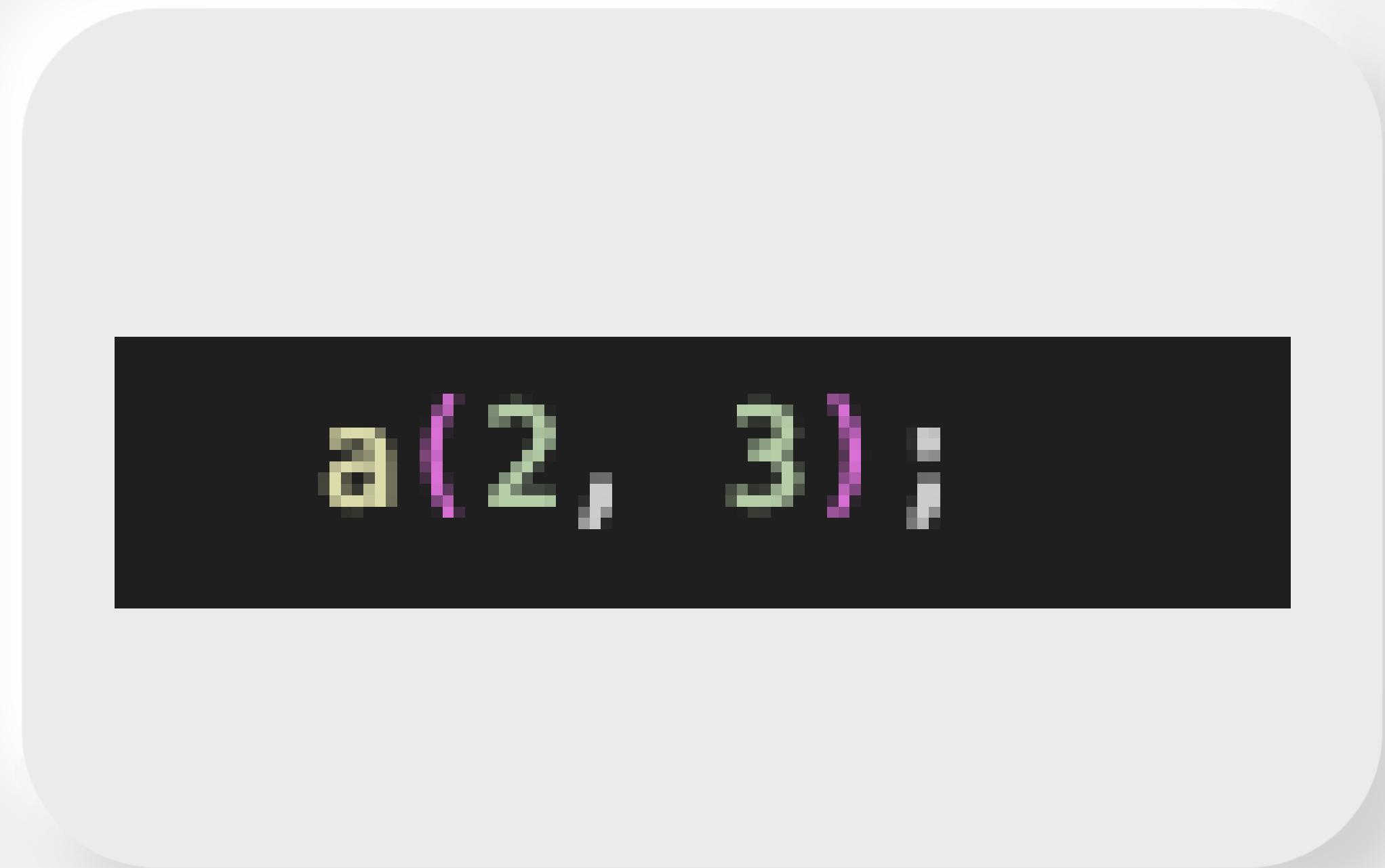
Ada yang salah? Ada.





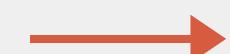
```
int a (int b, int c) {  
    |  
    return b + c;  
}
```





mean deviation
absolute value
and their mean
meaning (n)
sense or significance
language. 3. An
cance. ■■■■■ adj. 1
tended in a spec
meaning cousin

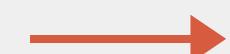
```
int penjumlahanDuaNilai(int nilai1, int nilai2)
{
    return nilai1 + nilai2;
}
```



mean deviation
absolute value
and their mean
meaning (in
sense or signifi-
language. 3. An
cance. ■■■■■ adj. 1
tended in a spec-
meaning cousin

```
int penjumlahanDuaNilai(int nilai1, int nilai2)
{
    |
}
return nilai1 + nilai2;
```

```
penjumlahanDuaNilai(2, 3);
```



Semantik pada HTML5?





Hello Afridho!

Hello Afridho!





Hello Afridho!

Hello Afridho!

```
<h1>Hello Afridho!</h1>
<p style="font-weight: bold; font-size: 32px; margin: 21px 0;">Hello Afridho!</p>
```





Hello Afridho!

Hello Afridho!

```
<h1>Hello Afridho!</h1>
<p style="font-weight: bold; font-size: 32px; margin: 21px 0;">Hello Afridho!</p>
```





Alasan menulis Semantik HTML?





Alasan menulis Semantik HTML?

- Accessibility





Alasan menulis Semantik HTML?

- Accessibility
- Maintainability





Alasan menulis Semantik HTML?

- Accessibility
- Maintainability
- SEO





Alasan menulis Semantik HTML?

- Accessibility (Mudah dibaca user)
- Maintainability
- SEO





Alasan menulis Semantik HTML?

- Accessibility (Mudah dibaca user)
- Maintainability (Mudah dibaca developer)
- SEO





Alasan menulis Semantik HTML?

- Accessibility (Mudah dibaca user)
- Maintainability (Mudah dibaca developer)
- SEO (Mudah dibaca mesin pencari)





Alasan menulis Semantik HTML?

- HTML harus ditulis dengan merepresentasikan apa yang akan ditampilkan, bukan berdasarkan bagaimana dia ditampilkan (Style)





Alasan menulis Semantik HTML?

- HTML harus ditulis dengan merepresentasikan apa yang akan ditampilkan, bukan berdasarkan bagaimana dia ditampilkan (Style)
- Memudahkan **aksesibilitas**, terutama saat menggunakan screen reader





Alasan menulis Semantik HTML?

- HTML harus ditulis dengan merepresentasikan apa yang akan ditampilkan, bukan berdasarkan bagaimana dia ditampilkan (Style)
- Memudahkan **aksesibilitas**, terutama saat menggunakan screen reader
- Lebih **mudah mencari & mengelola kode** yang memiliki makna

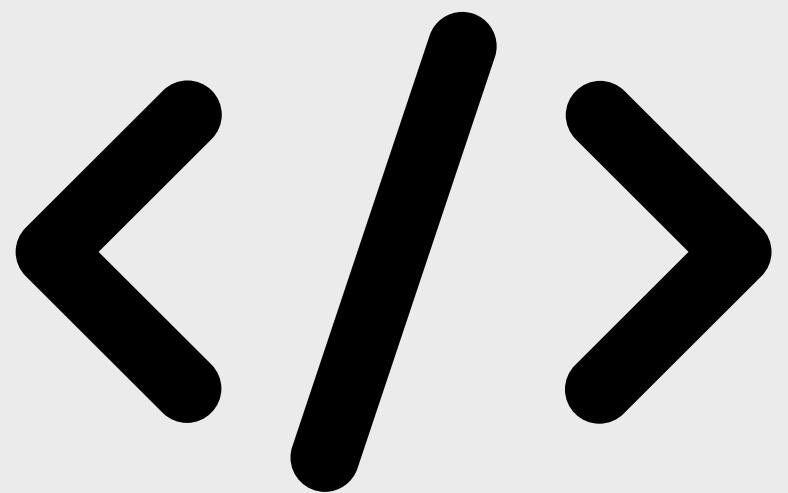




Alasan menulis Semantik HTML?

- HTML harus ditulis dengan merepresentasikan apa yang akan ditampilkan, bukan berdasarkan bagaimana dia ditampilkan (Style)
- Memudahkan **aksesibilitas**, terutama saat menggunakan screen reader
- Lebih **mudah mencari & mengelola kode** yang memiliki makna
- Berpengaruh pada **SEO**, karena semantik dianggap sebagai kata kunci yang penting bagi mesin pencari.





Element di HTML5?





Element HTML5 dibagi berdasarkan beberapa kategori





Element HTML5 dibagi berdasarkan beberapa kategori

- Metadata





Element HTML5 dibagi berdasarkan beberapa kategori

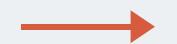
- Metadata
- Flow





Element HTML5 dibagi berdasarkan beberapa kategori

- Metadata
- Flow
- Sectioning





Element HTML5 dibagi berdasarkan beberapa kategori

- Metadata
- Flow
- Sectioning
- Heading





Element HTML5 dibagi berdasarkan beberapa kategori

- Metadata
- Flow
- Sectioning
- Heading
- Phrasing





Element HTML5 dibagi berdasarkan beberapa kategori

- Metadata
- Flow
- Sectioning
- Heading
- Phrasing
- Embedded

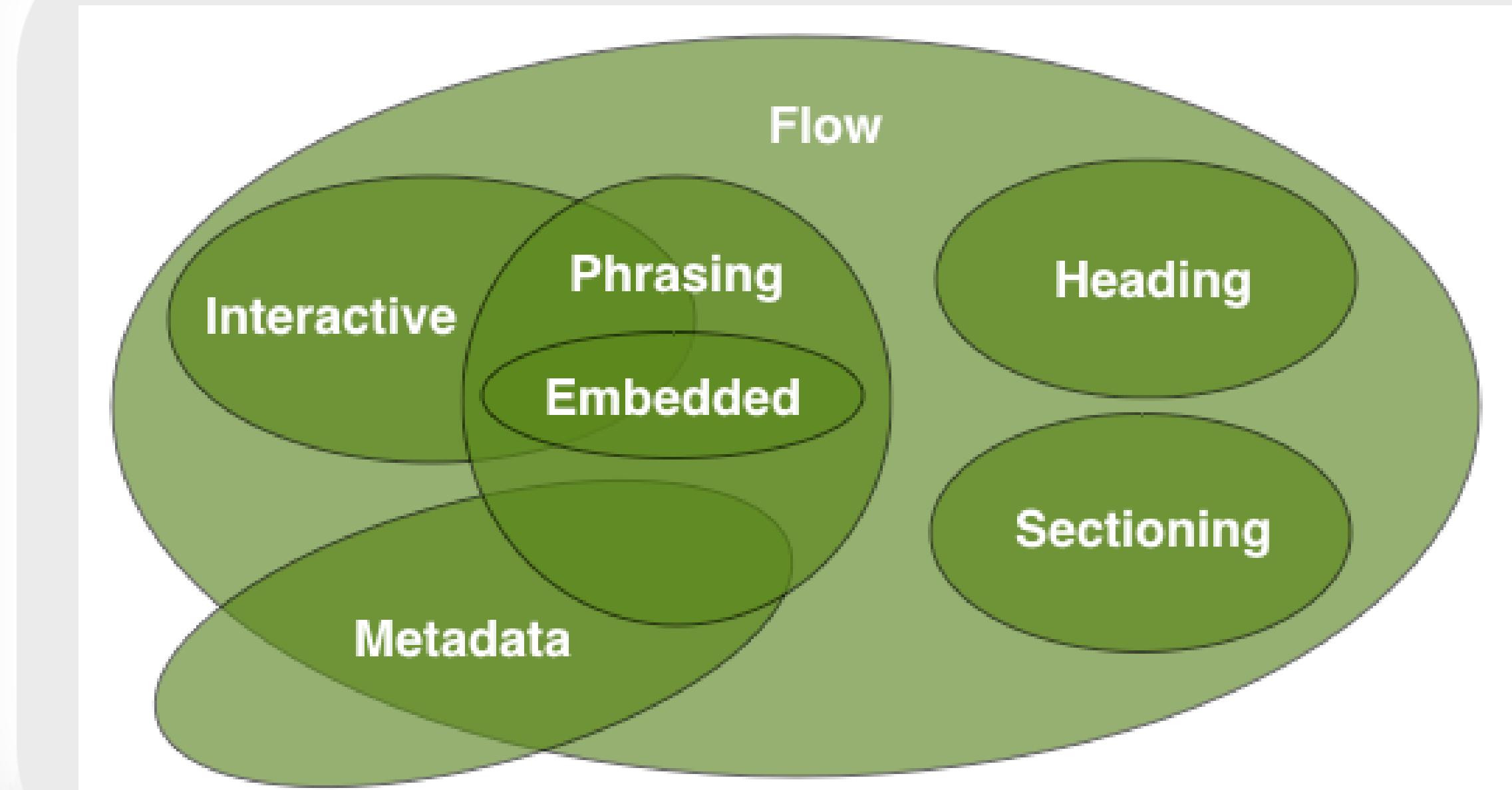




Element HTML5 dibagi berdasarkan beberapa kategori

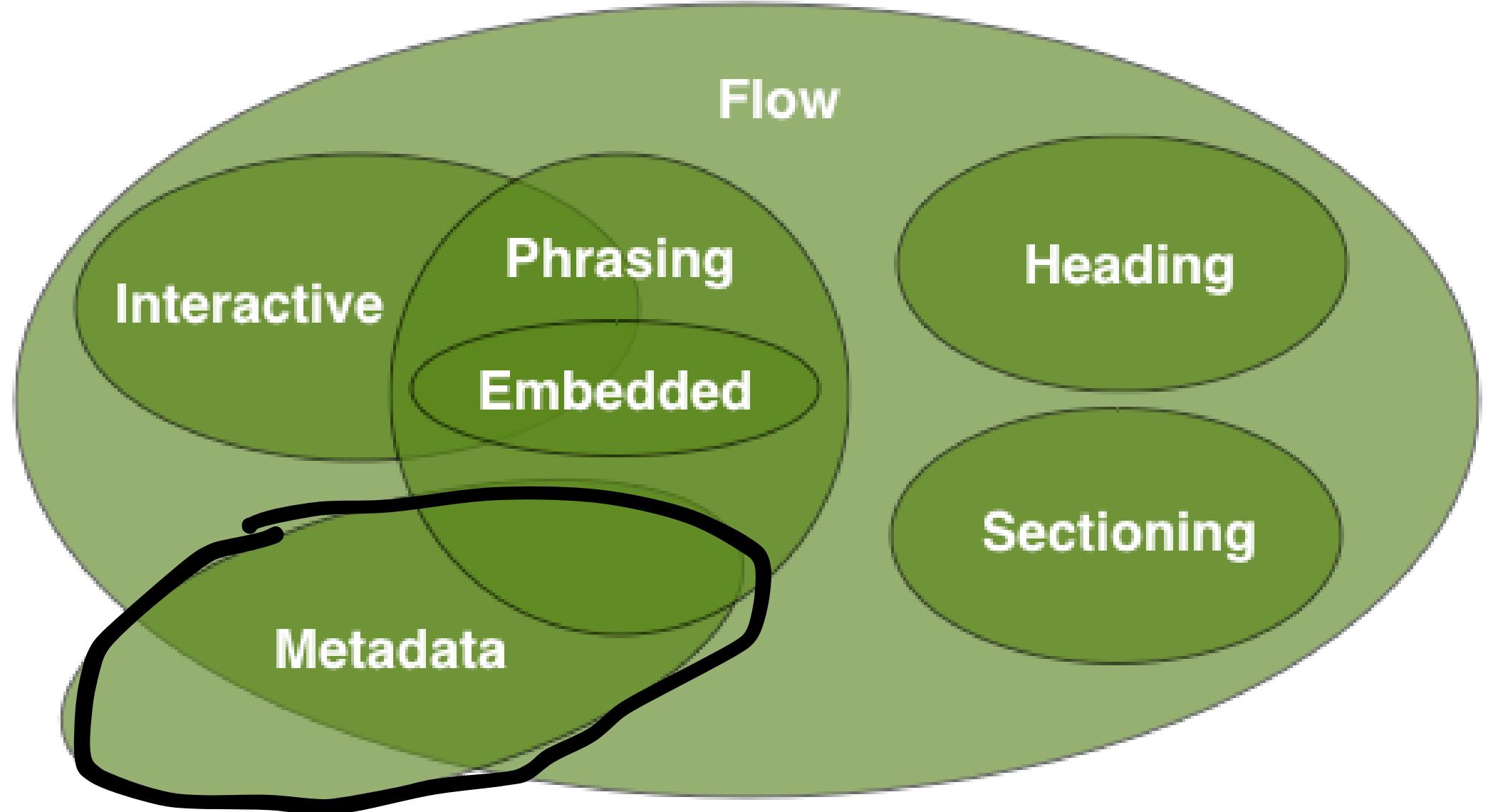
- Metadata
- Flow
- Sectioning
- Heading
- Phrasing
- Embedded
- Interactive





<https://www.w3.org/TR/2017/REC-html52-20171214/images/content-venn.png>

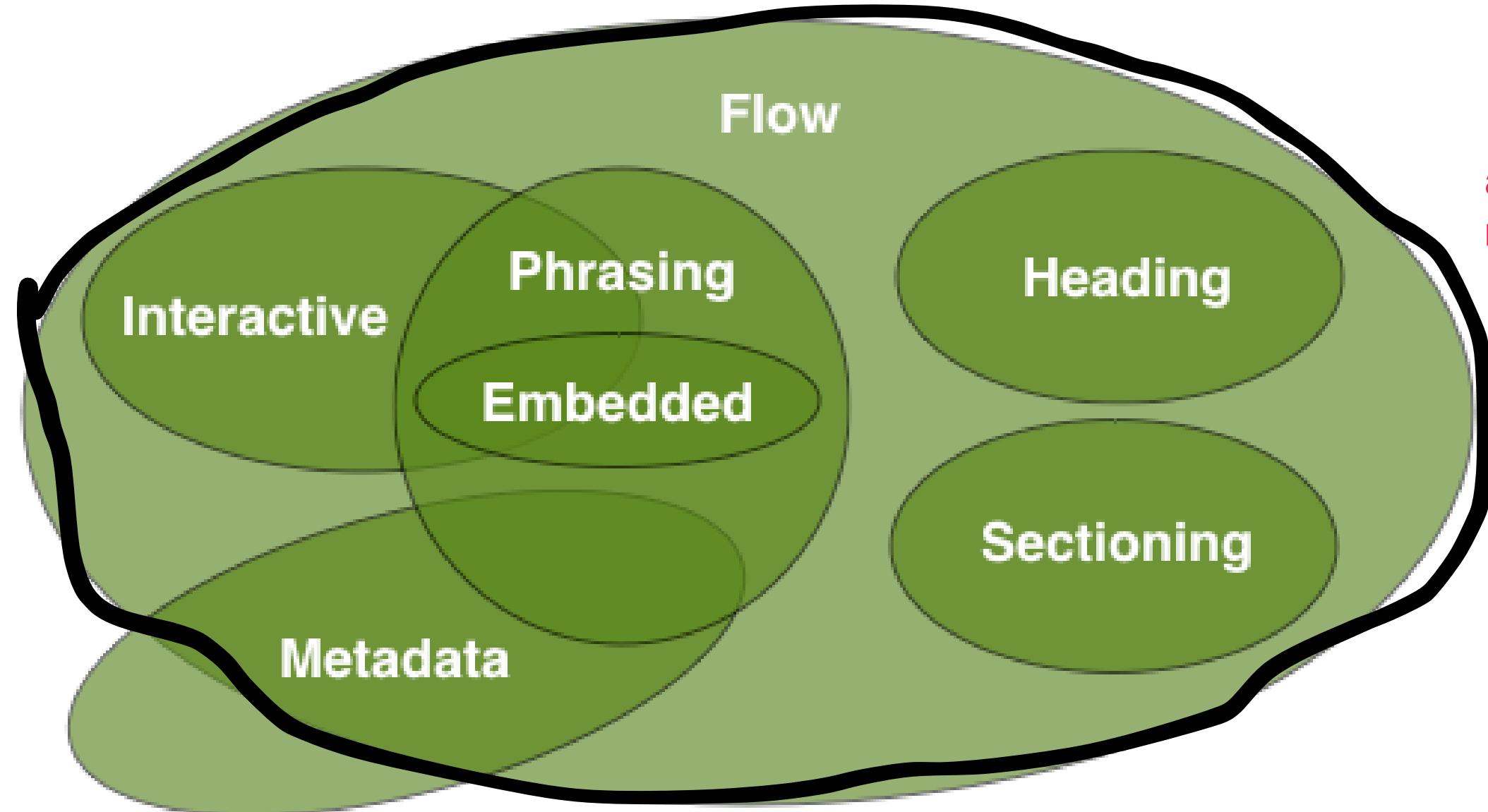




Metadata Content

base, link, meta, noscript, script, style, template, title

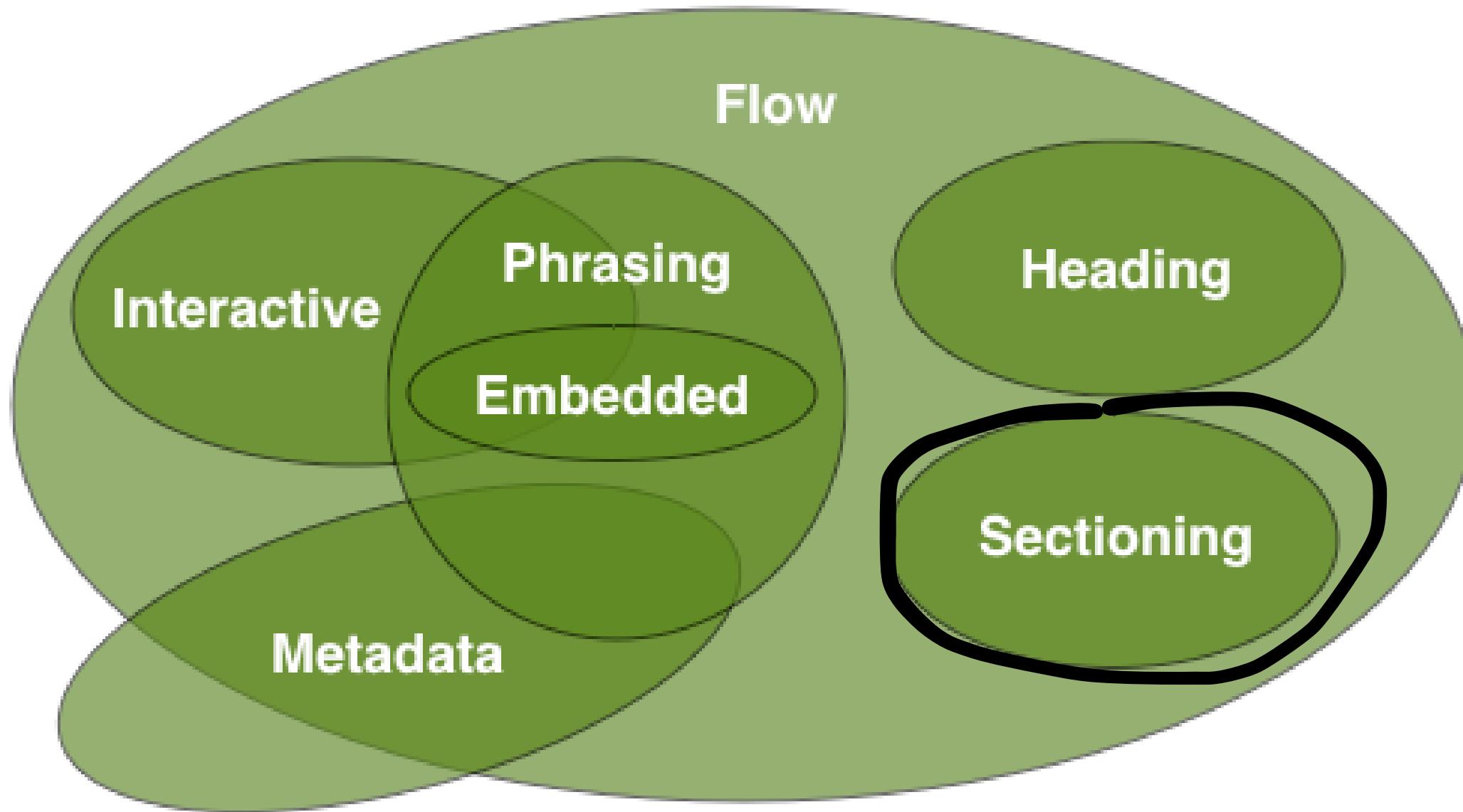




Flow Content

a, h1, h2, h3, h4, h5, h6, form, img, div, nav, hr, ul, li, main, dsb...

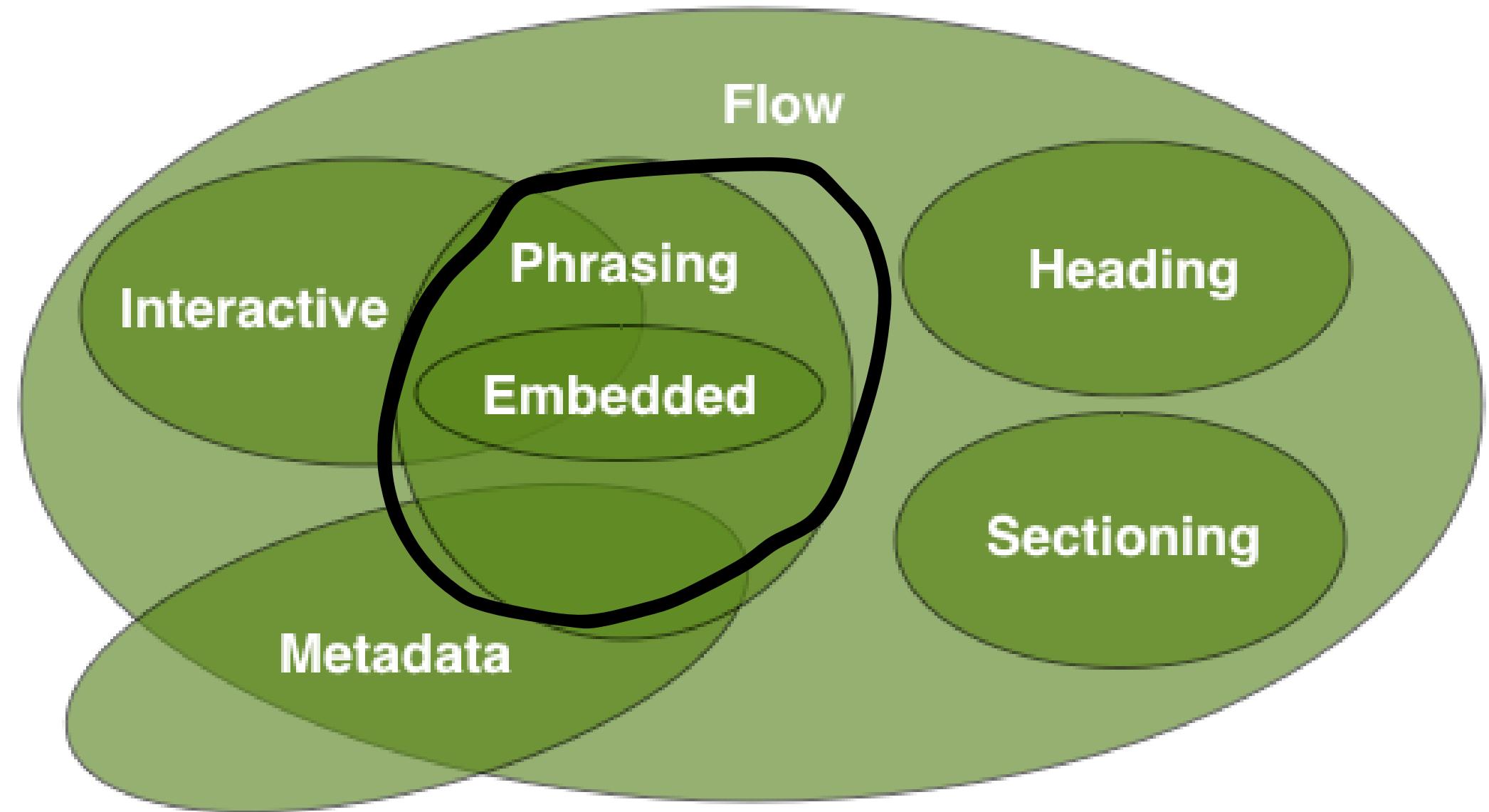




Sectioning Content

article, aside, nav, section, header, footer

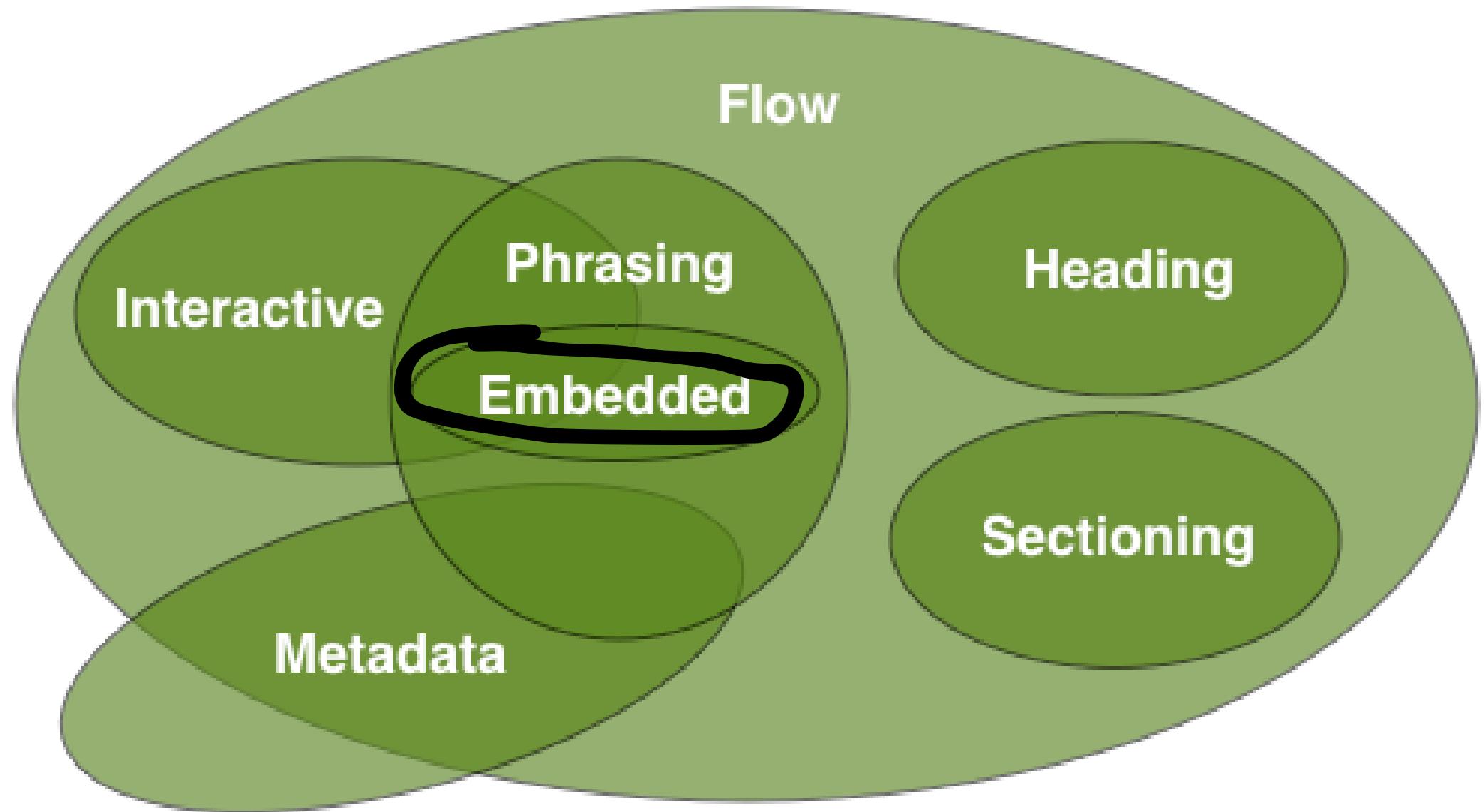




Phrasing Content

abbr, mark, label, cite, strong, time, sub, sup, dsb...

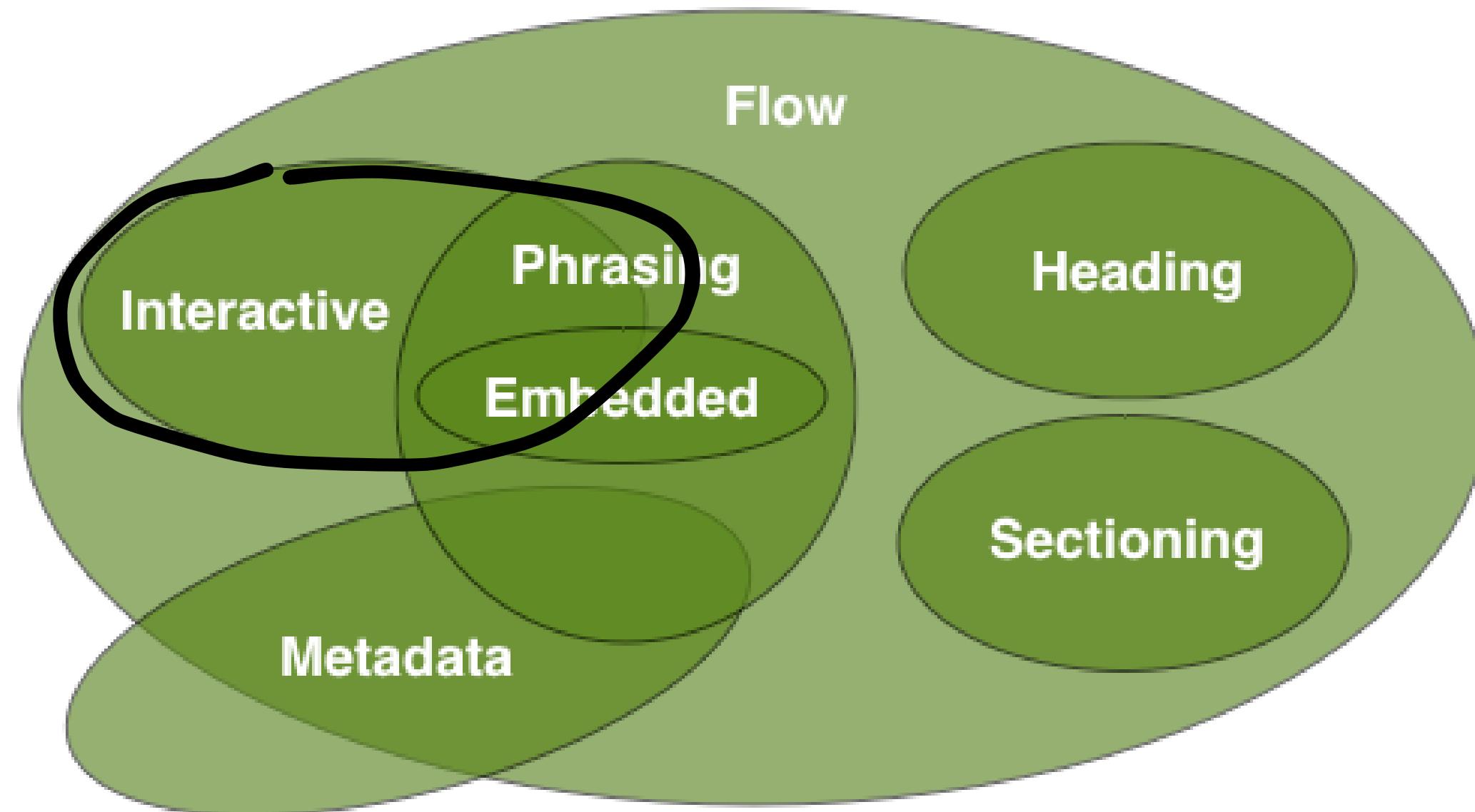




Embedded Content

audio, canvas, embed, iframe, img, object, picture, svg, video, dsb...





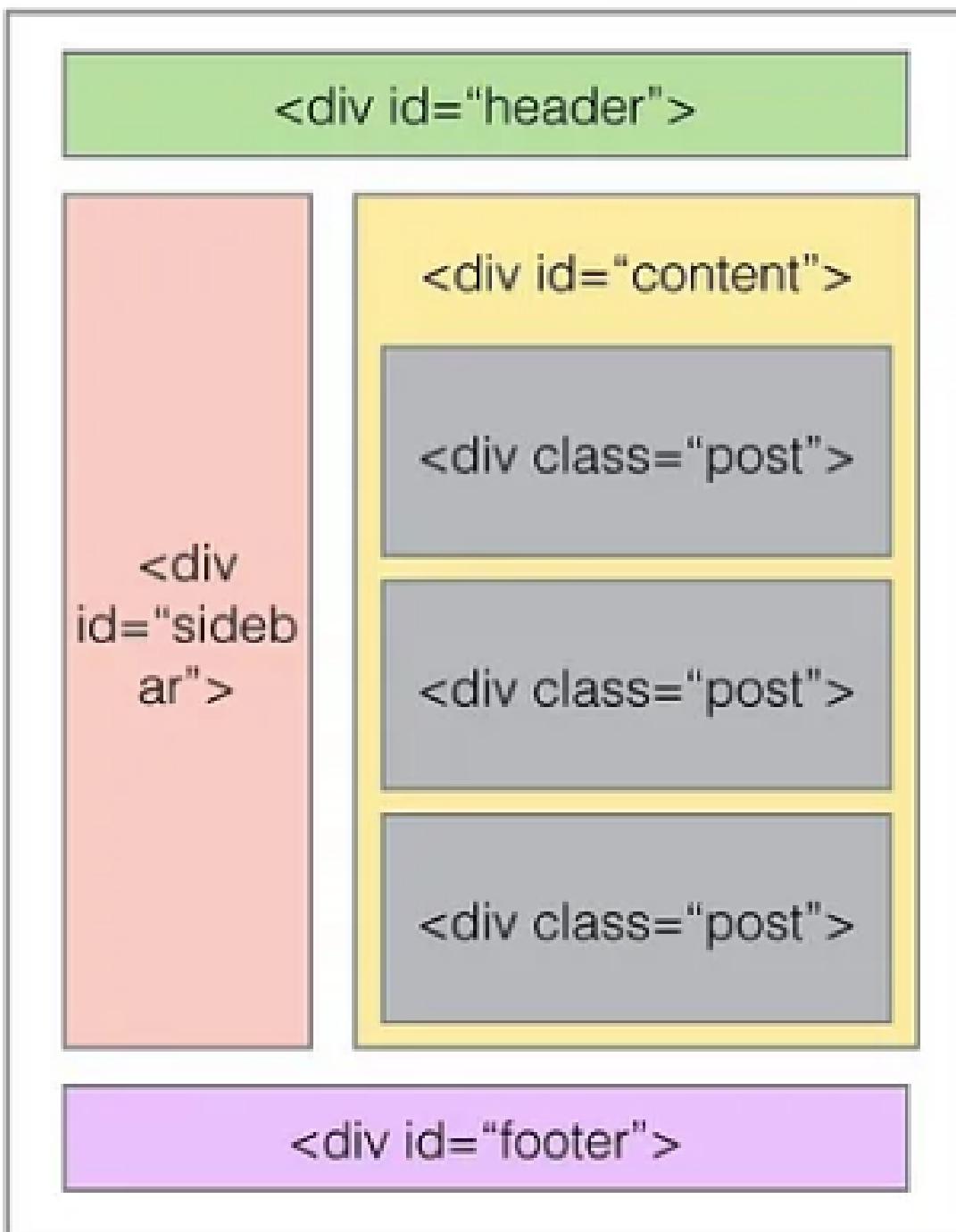
Interactive Content

button, details, embed, iframe, label, select, textarea





HTML4: Lots of Classes/IDs

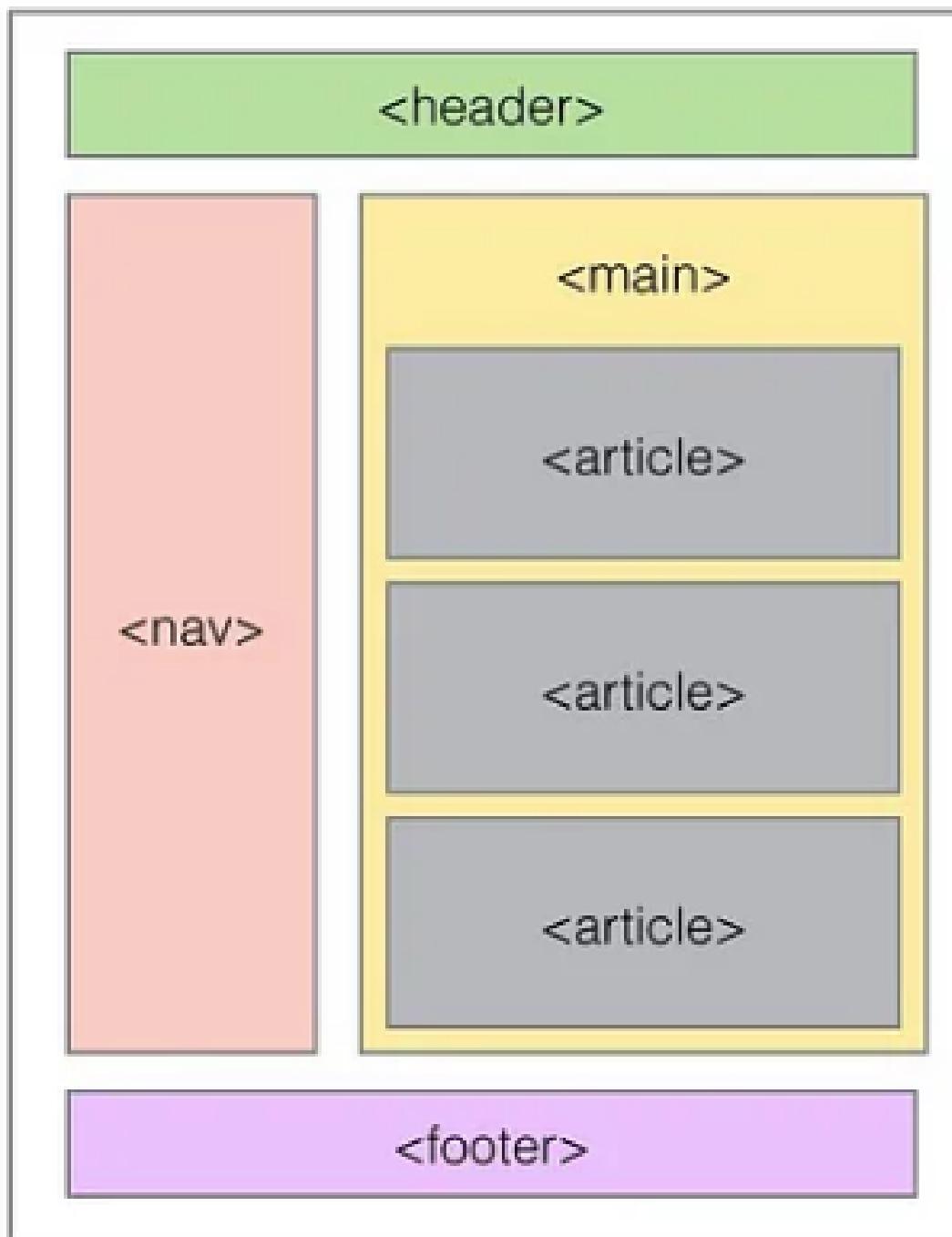


<https://www.w3.org/TR/2017/REC-html52-20171214/images/content-venn.png>





HTML5: Semantic Tags/Sections



<https://www.w3.org/TR/2017/REC-html52-20171214/images/content-venn.png>





HTML4

```
<div id="header"></div>
<div id="sidebar"></div>

<div id="main">
  <div id="section">
    <div id="article">
      <div id="figure">
        
        <div id="figcaption"></div>
      </div>
    </div>
  </div>
</div>

<div id="footer"></div>
```





HTML4

```
<div id="header"></div>
<div id="sidebar"></div>

<div id="main">
  <div id="section">
    <div id="article">
      <div id="figure">
        
        <div id="figcaption"></div>
      </div>
    </div>
  </div>
</div>

<div id="footer"></div>
```

HTML5

```
<header></header>
<aside></aside>

<main>
  <section>
    <article>
      <figure>
        
        <figcaption></figcaption>
      </figure>
    </article>
  </section>
</main>

<footer></footer>
```



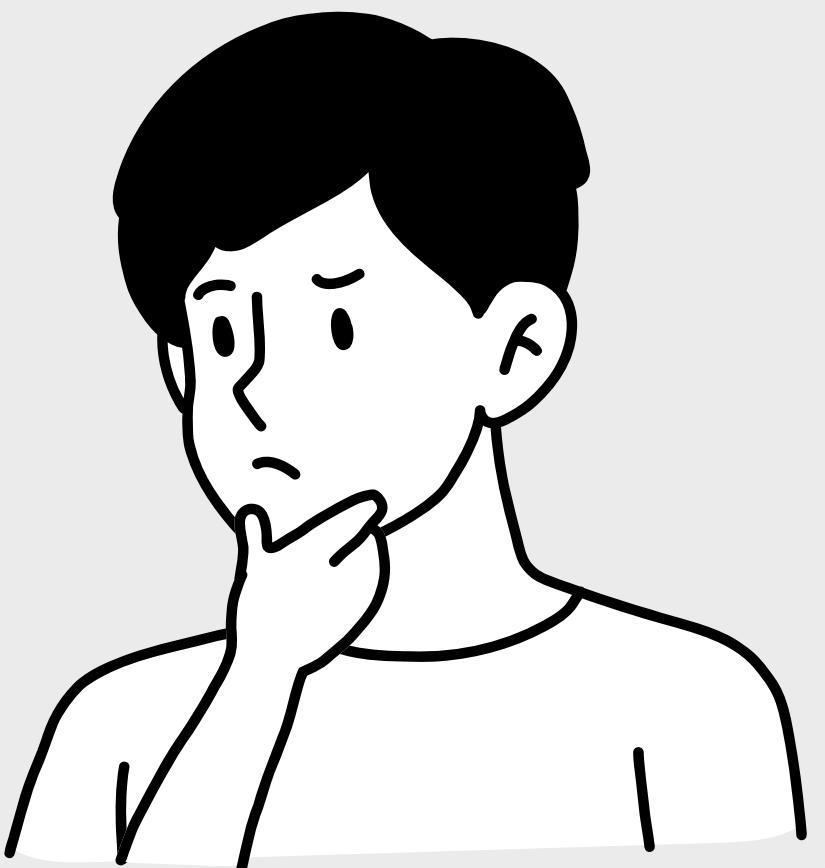
Dokumentasi Semantik HTML

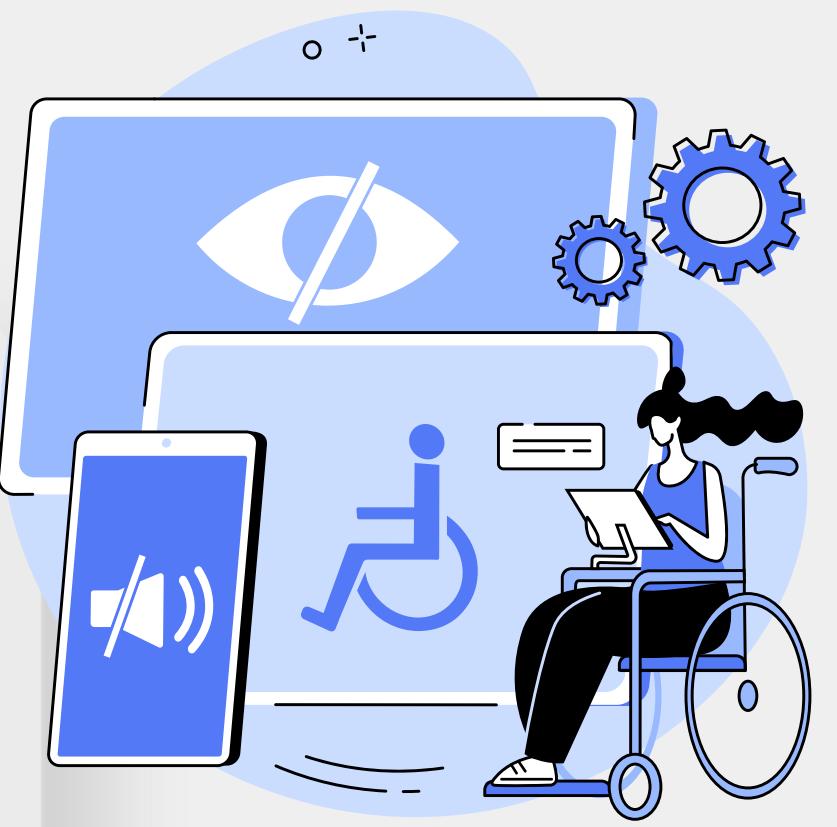
https://www.w3schools.com/html/html5_semantic_elements.asp





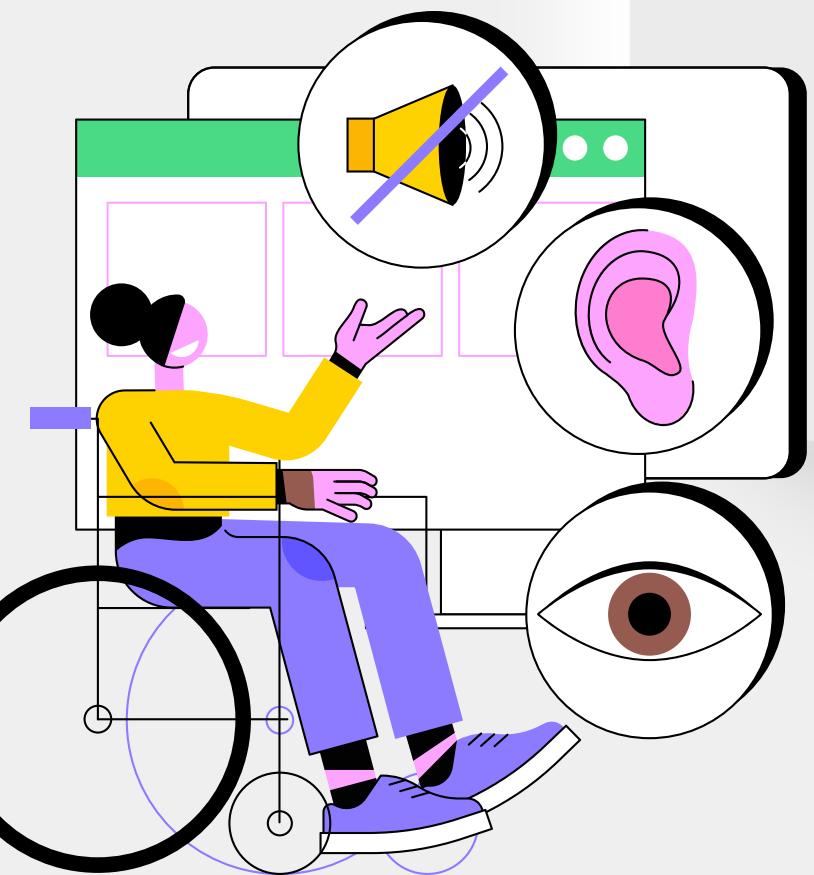
Bagaimana jika kita ingin menerapkan semantik pada elemen yang tidak ada elemen semantiknya?





WAI-ARIA

Web Accessibility Initiative - Accessible Rich Internet Applications



Contoh



Selesai.

