

## TOPIC

- What is HTML, in modern way?
- Structure
- Template
- Template Engines

# FRONT END 101

# HTML

Jun 2018

[www.asiantech.vn](http://www.asiantech.vn)

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**WHAT IS**

**HTML**

in



way...

# / hypertext markup language / html



*Tim Berners-Lee*



## **standard markup language**

"Markup" means something slightly different: a language with specific syntax that instructs a Web browser how to display a page.



## **web pages**

- Texts
- Images, clips, background music
- Dropdown menu, search boxes, links
- Moving boxes



## **web applications**

#interactions #functionalities

#single-page

#desktop-like #native-like

#office software #project management

/ versioning

# 1991 ... future

CERN document listing  
18 HTML tags, was first  
mentioned in public

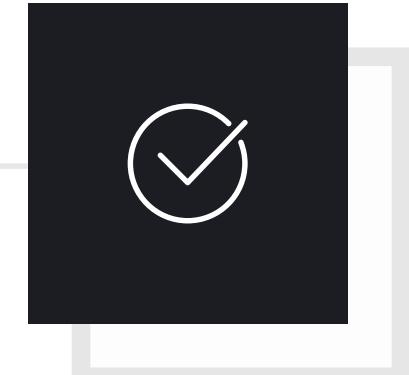
## HTML 4

### HTML TAGS

It offers three variations:  
strict, transitional,  
frameset.

Modern version of  
HTML, break-out the  
limitations.

## HTML 5



# HTML document

/ html document

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>Document</title>
</head>
<body>
  <p>Hello world, I am <abbr title="Hyper Text Markup Language">HTML</abbr>. </p>
</body>
</html>
```

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---

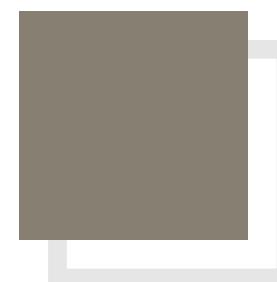
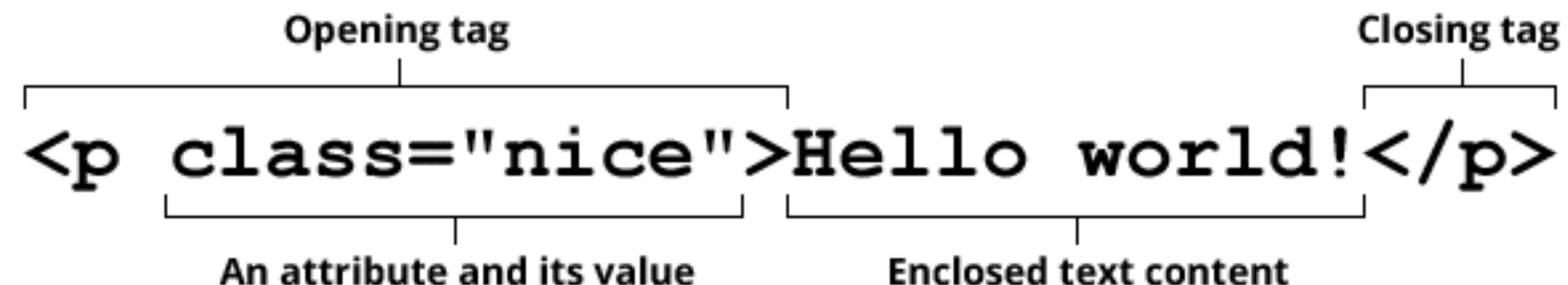
# STRUCTURE

---

/ html

# ELEMENT

*Anatomy of an HTML element*



## BLOCK-LEVEL ELEMENTS

A block-level element occupies the entire space of its parent element (container), thereby creating a "block".

#stack of box

## INLINE ELEMENTS

A block-level element occupies the entire space of its parent element (container), thereby creating a "block".

#in a line

## EMPTY ELEMENTS

HTML elements with no content are called empty elements.

#

<>

TAG

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<open>...

...tag is simple like that

then...

...</close>

and



<></>

nested properly

<p>

You have to  
close

<span>your  
nested tag</  
span>

before close  
its outer tag.

</p>

/ tag

<but>

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Empty  
element has its  
tag  
self-closed

<open> ===  
<close>

```
<p class="foo-bar">Normal attribute</p>
```

- On all element.

## Boolean attribute

```
<input required="required">  
<input required="">  
<input required>
```

- On interactive elements (!?)

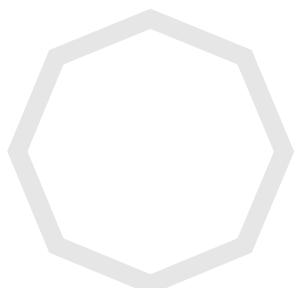
## Attribute

*Attribute* provides additional information about HTML elements.

- *All elements.*
- *Open tag only.*

/ html

# doctype



## NOT A HTML TAG

HTML document **must** contain a **doctype** declaration as **the first line**.

**One and only doctype for HTML5**

`<!DOCTYPE html>`



## DECLARE DOCUMENT TYPE

**doctype** tells the browser which version of HTML the page is written in.

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# TEMPLATE

---

```
untitled

1 <!DOCTYPE html>
2 <html lang="en">
3   <head>
4     <meta charset="utf-8">
5     <meta http-equiv="X-UA-Compatible" content="IE=edge">
6     <meta name="viewport" content="width=device-width, initial-scale=1">
7
8   <title>HTML · 101 · Template</title>
9
10  <!-- Stylesheet -->
11  <link href="path/to/style.css" rel="stylesheet">
12  </head>
13  <body>
14    <h1>Hello, world!</h1>
15
16  <!-- Scripts -->
17  <script src="https://path.to/some/external/script.js"></script>
18  <script src="path/to/script.js"></script>
19  </body>
20 </html>
```

```
<html>
```

```
  <head>
```

```
    <title>Page title</title>
```

```
  </head>
```

```
<body>
```

```
  <h1>This is a heading</h1>
```

```
  <p>This is a paragraph.</p>
```

```
  <p>This is another paragraph.</p>
```

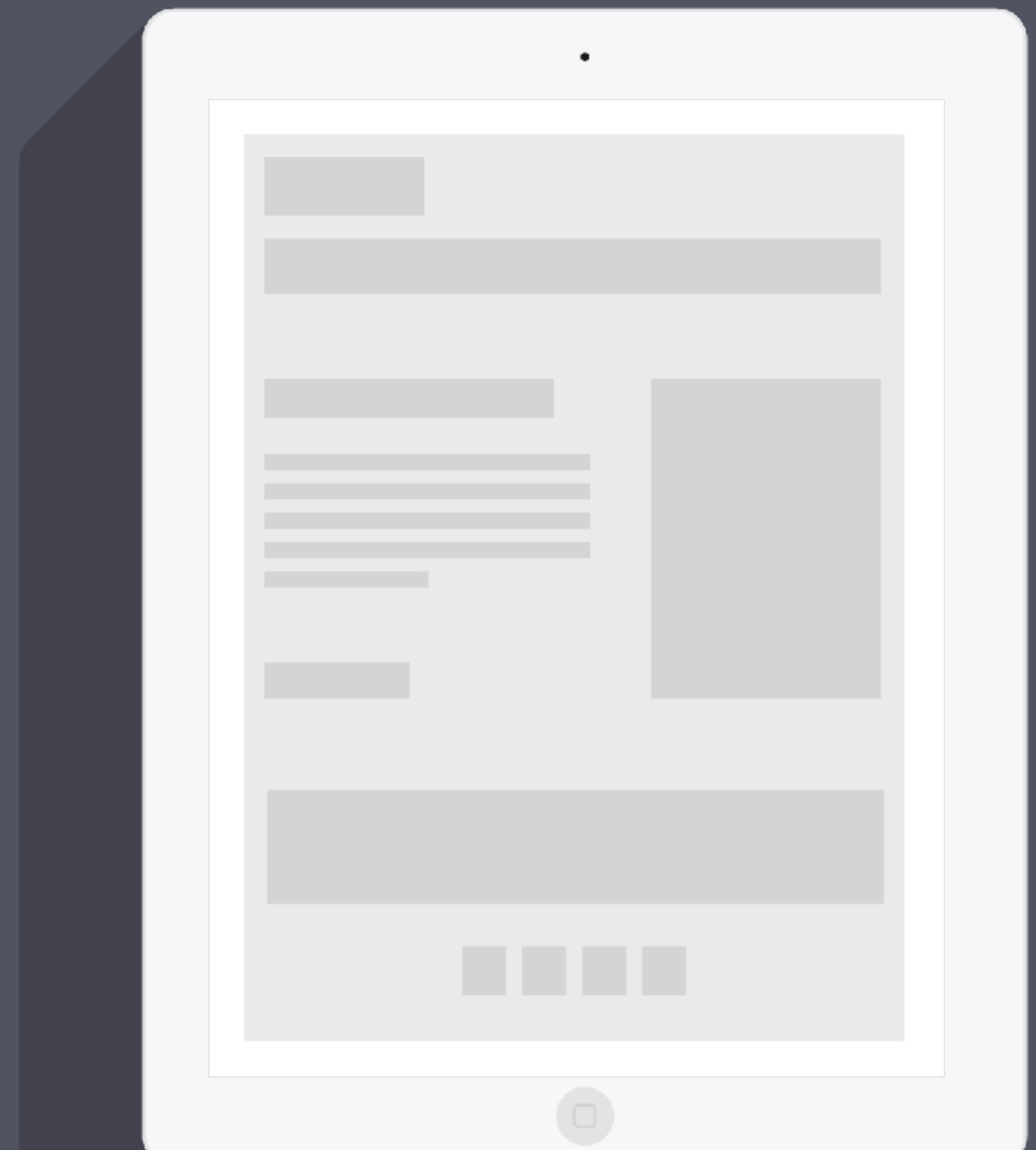
```
</body>
```

Root element

Meta information elements

Visible page content

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/ layout

## SKETCH-UP A PAGE



ITS GAMING TIME!!!

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/ layout

## Step 1

**HIGHLIGHT  
BLOCK AREA /  
SECTION AREA**



Q<sub>t</sub>

/ layout

## Step 2

### UNDERSTAND THE DESIGN



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/ layout

## Step 3

### BUILD FUNCTIONAL MODULES



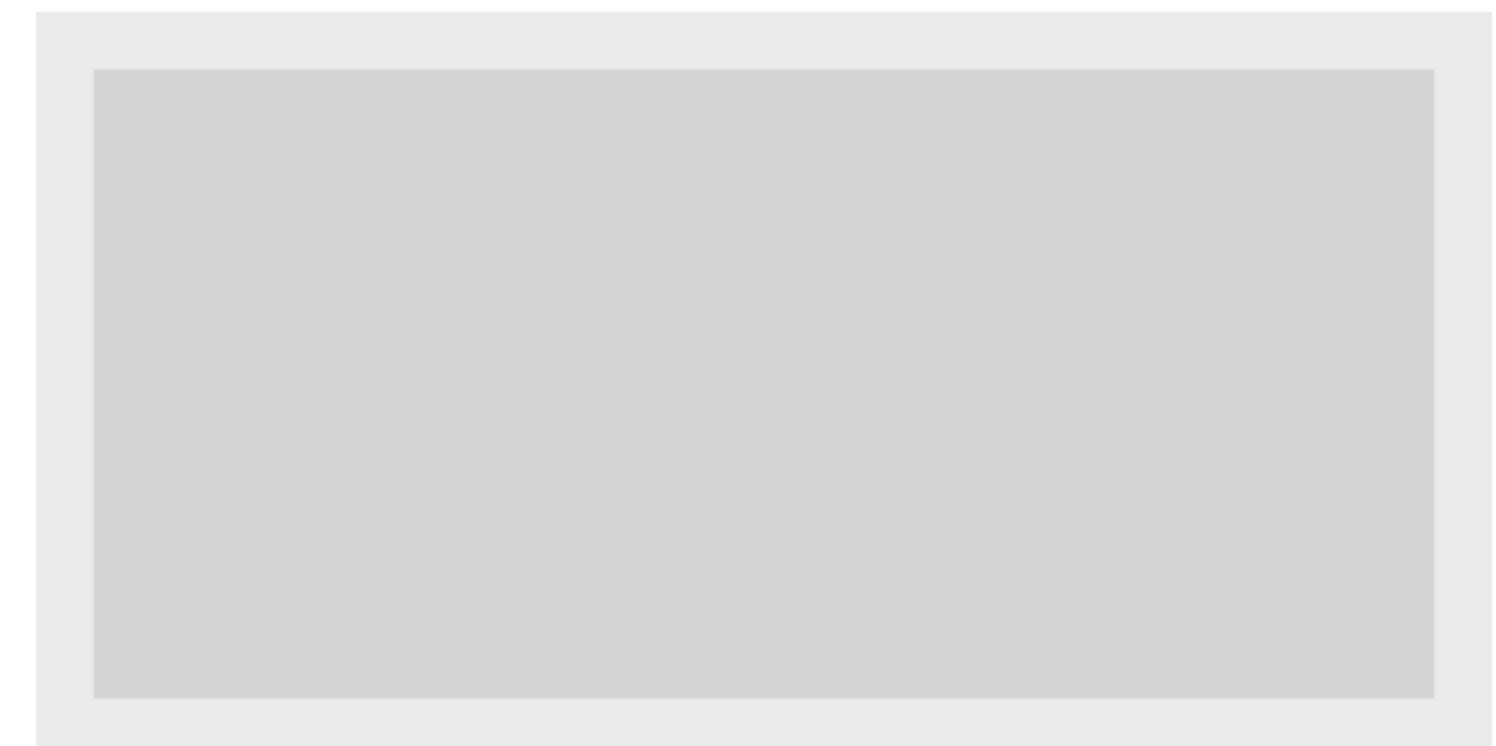
Featured Story A



Featured Story B



General Content Block



Responsive Image

/ html

# ALL ABOUT ORGANIZING



## LAYOUT

Structural elements:

<header>, <section>, <article>, <nav>,  
<aside>, <footer>



## CONTENT CATEGORIES

Elements that provide content



## SECTION AND OUTLINE

Provide meaningful block of content

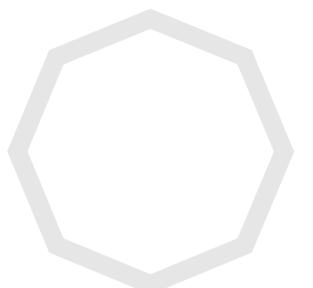


## FORM

Basic interaction group of elements

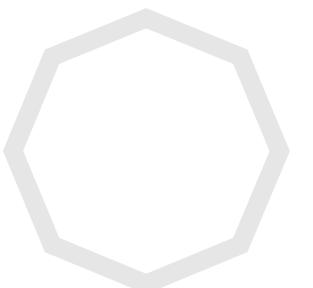
/ html

# Layout



## `<header>`

HTML Header Element defines a page header.

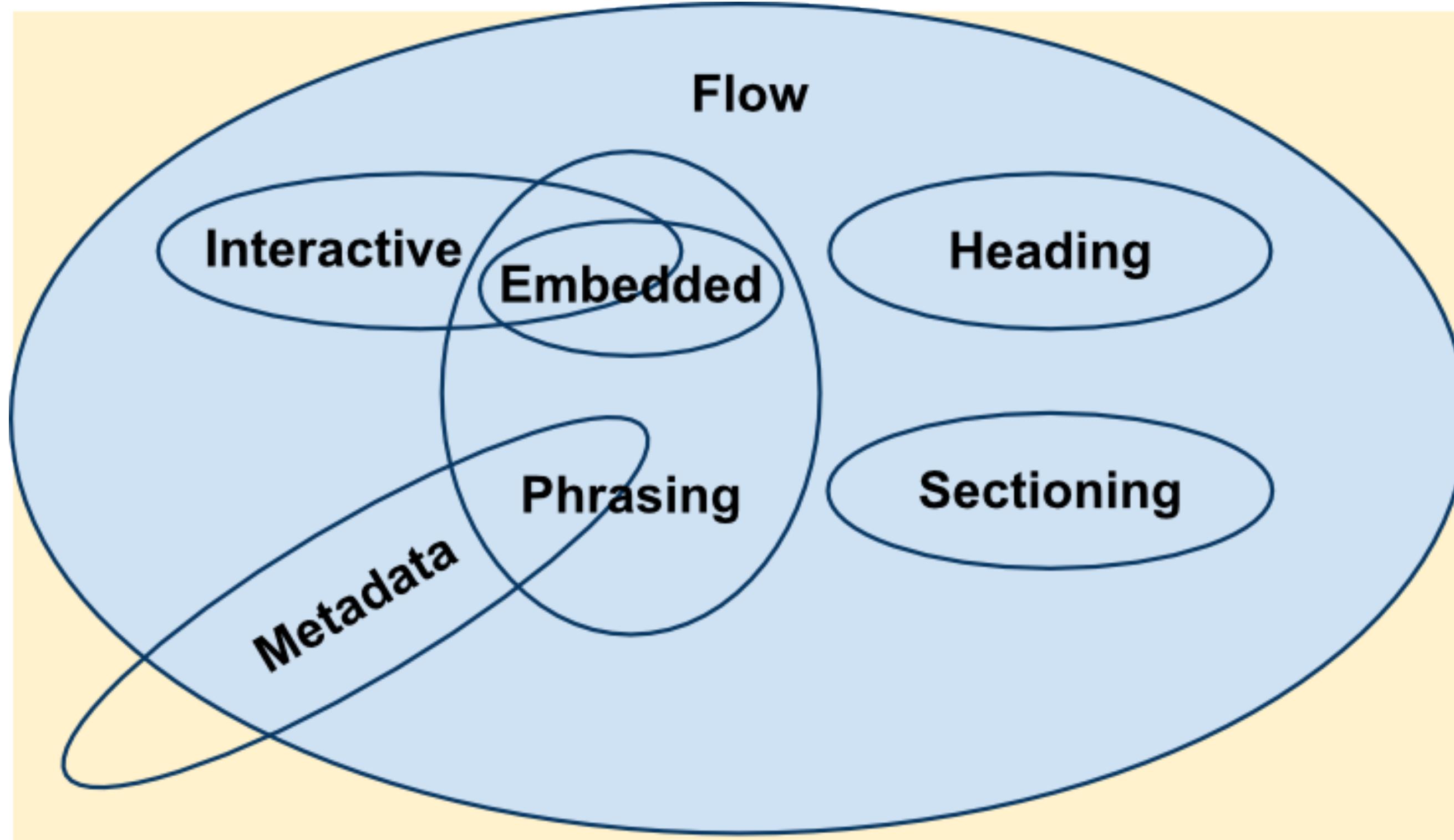


## `<footer>`

HTML Footer Element defines a page footer.

/ html

# Content Categories



[https://developer.mozilla.org/en-US/docs/Web/Guide/HTML/Content\\_categories](https://developer.mozilla.org/en-US/docs/Web/Guide/HTML/Content_categories)

2018

/ html

# SECTION AND OUTLINE

 **<body> is the main section**

 **Sections can be nested**

 **Each section has its own heading hierarchy**

 **Sections outside the outline (aside, nav)**

 ...

Q<sub>t</sub>

# FORM structure

/ form

## FUNDAMENTAL FORM: WIDGET(S)



TEXT FIELDS



CHECKBOXES



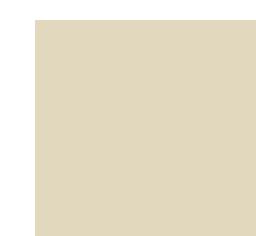
SELECT BOXES



RADIO BUTTONS



BUTTONS



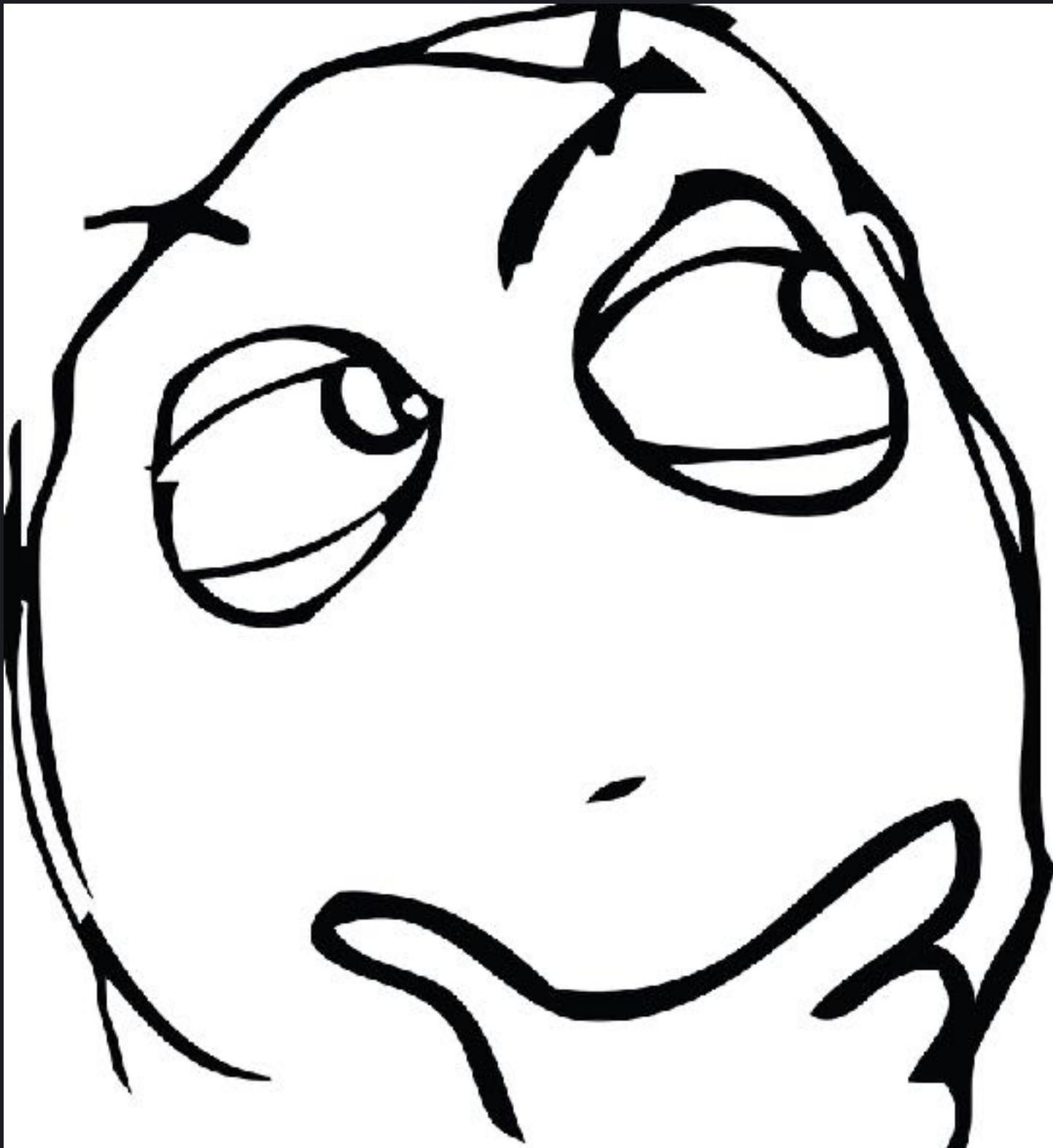
LABELS

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# Sketch-up

/ making form

no game lol



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```
1 <form action="/my-handling-form-page" method="post">
2   <div>
3     <label for="name">Name:</label>
4     <input type="text" id="name" name="user_name" >
5   </div>
6   <div>
7     <label for="mail">E-mail:</label>
8     <input type="email" id="mail" name="user_mail" >
9   </div>
10  <div>
11    <label for="msg">Message:</label>
12    <textarea id="msg" name="user_message"></textarea>
13  </div>
14
15  <div class="button">
16    <button type="submit">Send your message</button>
17  </div>
18 </form>
```

Name:

E-mail:

Message:

**Send your message**

Windows 7

Mac OSX

Name:

E-mail:

Message:

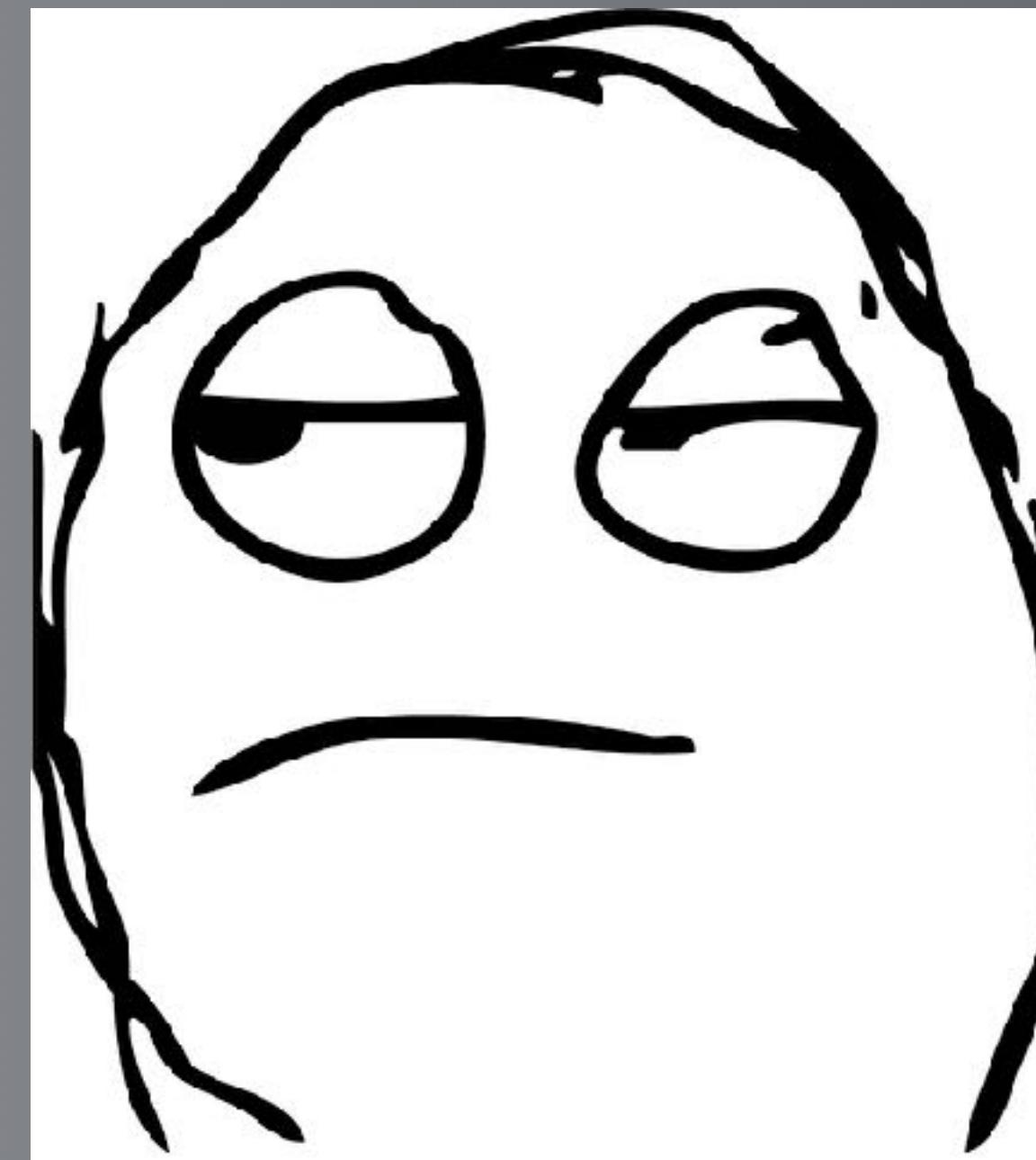
**Send your message**

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IS THAT ALL???

...

NOPE



Qt

	Default	Focus	Disabled
Firefox (Win7)	I'm a multi-lines text field	I'm a multi-lines text field	I'm a multi-lines text field
Chrome (Win7)	I'm a multi-lines text field	I'm a multi-lines text field	I'm a multi-lines text field
IE (Win7)	I'm a multi-lines text field	I'm a multi-lines text field	I'm a multi-lines text field
Firefox (Mac OSX)	I'm a multi-lines text field	I'm a multi-lines text field	I'm a multi-lines text field
Chrome (Mac OSX)	I'm a multi-lines text field	I'm a multi-lines text field	I'm a multi-lines text field

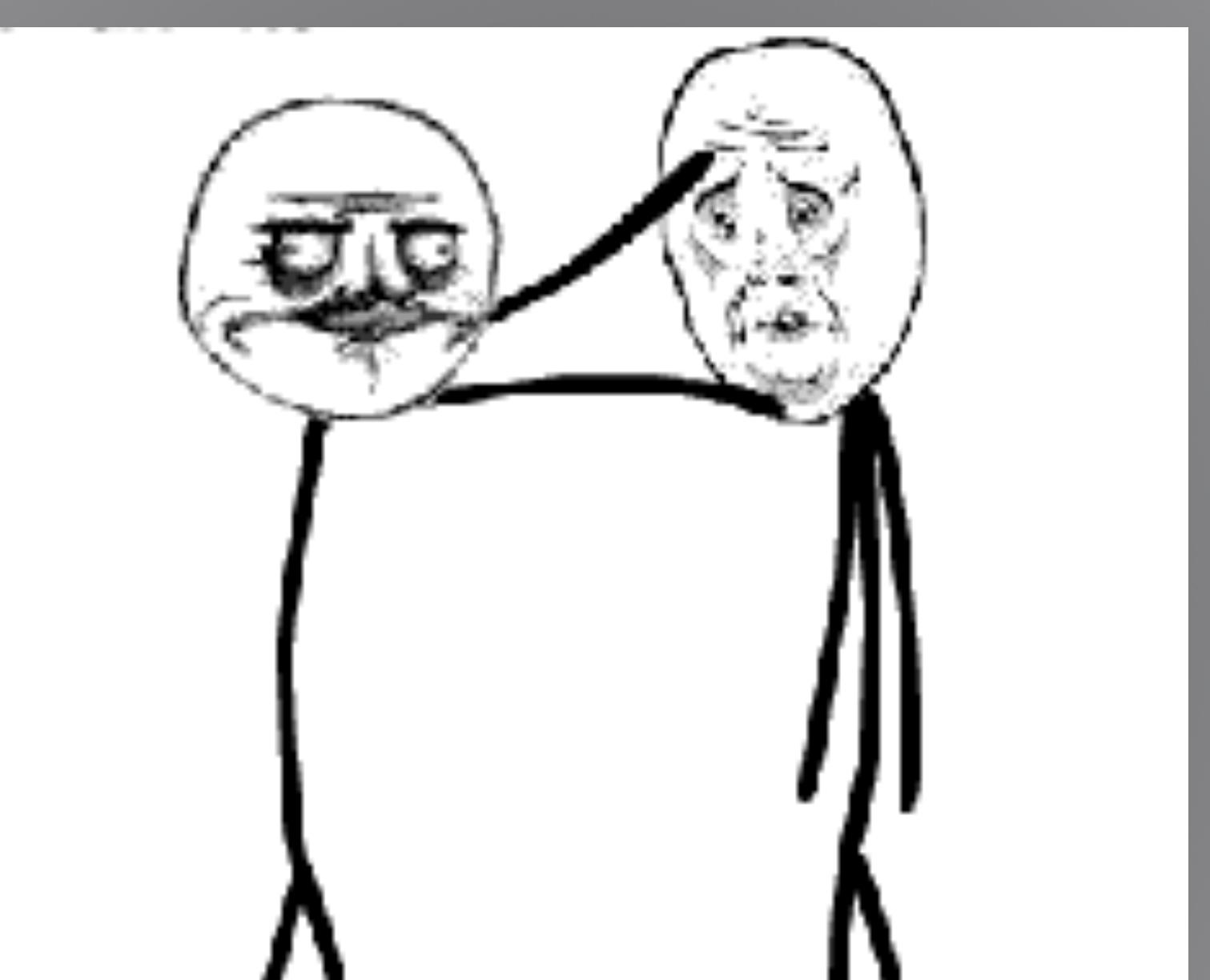
	Default	Focus	Disabled
Firefox (Win7)	I'm a button	I'm a button	I'm a button
Chrome (Win7)	I'm a button	I'm a button	I'm a button
IE (Win7)	I'm a button	I'm a button	I'm a button
Firefox (Mac OSX)	I'm a button	I'm a button	I'm a button
Chrome (Mac OSX)	I'm a button	I'm a button	I'm a button

	Default	Focus	Disabled
Firefox (Win7)	<input type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> <input checked="" type="checkbox"/>
Chrome (Win7)	<input type="checkbox"/> <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> <input checked="" type="checkbox"/>
IE (Win7)	<input type="checkbox"/> <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> <input checked="" type="checkbox"/>
Chrome (Mac OSX)	<input type="checkbox"/> <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> <input checked="" type="checkbox"/>

	Default	Focus	Disabled
Firefox (Win7)	I'm a text field	I'm a text field	I'm a text field
Chrome (Win7)	I'm a text field	I'm a text field	I'm a text field
IE (Win7)	I'm a text field	I'm a text field	I'm a text field
Firefox (Mac OSX)	I'm a text field	I'm a text field	I'm a text field
Chrome (Mac OSX)	I'm a text field	I'm a text field	I'm a text field

	Default	Focus	Disabled
Firefox (Win7)	I'm a button	I'm a button	I'm a button
Chrome (Win7)	I'm a button	I'm a button	I'm a button
IE (Win7)	I'm a button	I'm a button	I'm a button
Firefox (Mac OSX)	I'm a button	I'm a button	I'm a button
Chrome (Mac OSX)	I'm a button	I'm a button	I'm a button

	Default	Focus	Open	Disabled
Firefox (Win7)	I'm a select box	I'm a select box	I'm a select box	I'm a select box
Chrome (Win7)	I'm a select box	I'm a select box	I'm a select box	I'm a select box
IE (Win7)	I'm a select box	I'm a select box	I'm a select box	I'm a select box
Opera (Win7)	I'm a select box	I'm a select box	I'm a select box	I'm a select box
Firefox (Mac OSX)	I'm a select box	I'm a select box	I'm a select box	I'm a select box
Chrome (Mac OSX)	I'm a select box	I'm a select box	I'm a group of options	I'm a group of options



Roll'in in the deep...

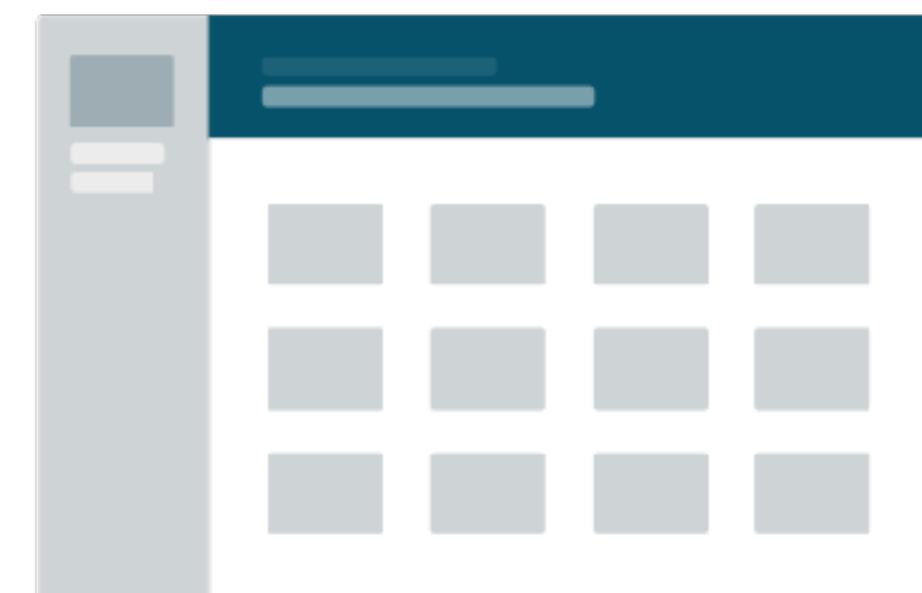
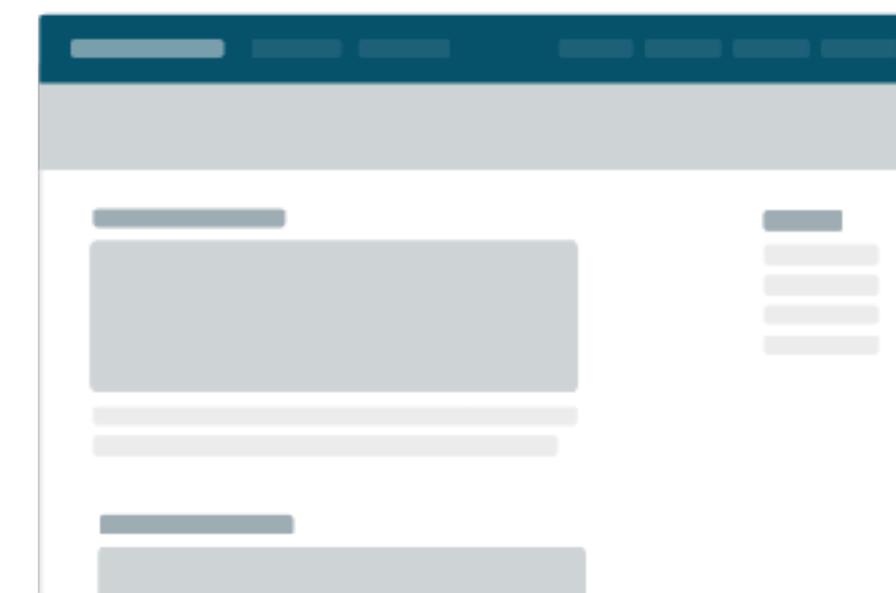
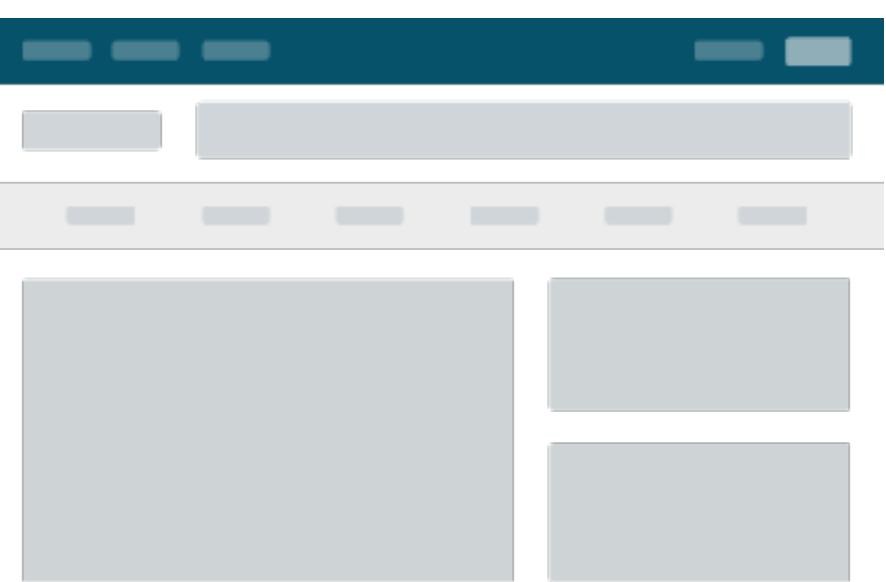
	Default	Focus	Disabled
Firefox (Win7)	I'm group of option	I'm group of option	I'm group of option
Chrome (Win7)	I'm group of option	I'm group of option	I'm group of option
Opera (Win7)	I'm group of option	I'm group of option	I'm group of option
IE (Win7)	I'm group of option	I'm group of option	I'm group of option
Firefox (Mac OSX)	I'm group of options	I'm group of options	I'm group of options
Chrome (Mac OSX)	I'm group of options	I'm group of options	I'm group of options

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/ html

# layout gallery

**PLAY GAME AND  
LEARN THE DIFFERENCES**



Q<sub>t</sub>

QUESTION TIME

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THANK YOU