

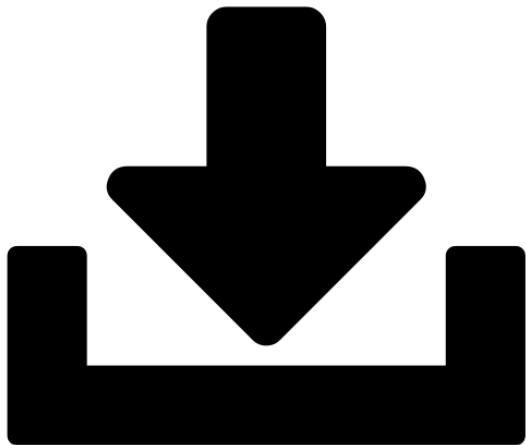
# ITP 104 Web Publishing



## Lecture 08 Meta Tags, Responsive Web Design

Sponsored by BATMAN LOREM IPSUM GENERATOR

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&



## <meta> tag

Specifies additional information about the document.

Metadata will not be displayed on the page.

**<meta>** tags must be within **<head>** tag!!!

```
<head>
```

```
<meta charset="UTF-8">
```

```
<meta name="description" content="ITP 104  
Rocks">
```

```
<meta name="keywords" content="HTML,CSS,ITP  
104">
```

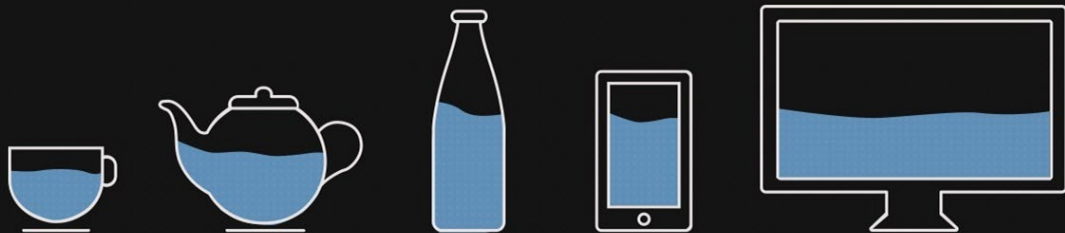
```
<meta name="author" content="Students">
```

```
<meta name="viewport" content="width=device-  
width, initial-scale=1.0">
```

```
</head>
```

# Responsive Web Design

## CONTENT IS LIKE WATER



“ You put water into a cup it becomes the cup.  
You put water into a bottle it becomes the bottle.  
You put it in a teapot, it becomes the teapot. ”

Josh Clark (originally Bruce Lee) - Seven deadly mobile myths

Illustration by Stéphanie Walter

# Example of a Responsive Web Site



## Video - Responsive Web Design - Introduction



[https://youtu.be/snQp757\\_Rr0](https://youtu.be/snQp757_Rr0)

# Video – Responsive Web Design – Made Simple



[https://youtu.be/t526Lt\\_O7zo](https://youtu.be/t526Lt_O7zo)

# Viewport <meta> tag

Specifies how viewport should behave.

Must be included in <head> tag of every responsive site.

The viewport is the user's visible area of a web page and varies with the device.

```
<head>
  <meta charset="UTF-8">
  <meta name="description" content="ITP 104 Rocks">
  <meta name="keywords" content="HTML,CSS,ITP 104">
  <meta name="author" content="Students">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
</head>
```

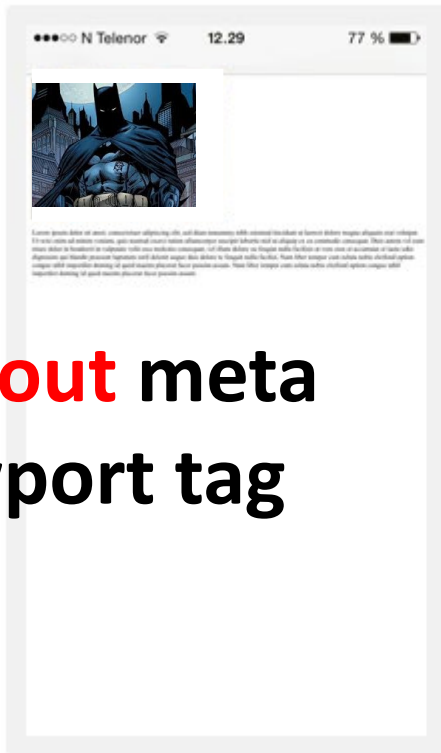
Initial zoom on the page.  
1 means no zoom.

Page width should be same  
as device/screen width.



# Viewport <meta> tag

**without meta  
viewport tag**



**with meta  
viewport tag**



# What is my Viewport

**Your viewport size is:**

**1280<sub>px</sub> × 860<sub>px</sub>**

<https://whatismyviewport.com/>

# CSS @media

Also called **media query**.

Specifies different CSS rules for different devices.

No set rules or standard breakpoints.

Example (used by Bootstrap):

$\geq 1200\text{px}$	Large Desktops
1199px - 992px	Desktops / Laptops
991px - 768px	Tablets
767px - 576px	Landscape Phones
$\leq 575\text{px}$	Portrait Phones

Viewports 800px or smaller

```
@media (max-width: 800px) {  
    /* CSS here */  
}
```

```
@media (min-width: 800px) {  
    /* CSS here */  
}
```

Viewports 800px or larger

## @media query

@media rule is used to define different CSS for different media types and devices, example below:

```
@media (max-width: 600px) {  
  body {  
    background-color: lightblue;  
  }  
}
```

## @media query

**@media** queries can be used to check many things, such as:

- width and height of the viewport
- width and height of the device
- orientation (landscape or portrait mode)
- resolution

## @media query types

Type	Description	Example
all	All devices.	@media <b>all</b>
print	Print preview mode & printing.	@media <b>print</b>
screen	Computer screens.	@media <b>screen</b>
speech	Speech synthesizers.	@media <b>speech</b>

# Common @media query breakpoints

## Desktops & Laptops:

min-width: 1224px

## iPhone X:

min-width: 375px and max-height: 812px and orientation : landscape

min--width: 375px and max-height: 812px and orientation : portrait

## Samsung Galaxy S5

min-width: 360px and max-height: 640px and orientation : landscape

min-width: 360px and max-height: 640px and orientation : portrait



<https://responsivedesign.is/develop/browser-feature-support/media-queries-for-common-device-breakpoints/>

# Desktop First

## Extra Large Devices

*(Large Desktops)*



Default CSS.  
No media query.

## Large Devices

*(Desktops/Laptops)*



```
@media (max-width: 1223px) {  
  /* CSS Here */  
}
```

## Medium Devices

*(Tablets)*



```
@media (max-width: 1023px) {  
  /* CSS Here */  
}
```

## Small Devices

*(Mobile Phones)*



```
@media (max-width: 767px) {  
  /* CSS Here */  
}
```



# Mobile First

## Small Devices

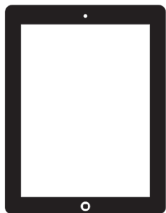
*(Mobile Phones)*



Default CSS.  
No media query.

## Medium Devices

*(Tablets)*



```
@media (min-width: 768px) {  
  /* CSS Here */  
}
```

## Large Devices

*(Desktops/Laptops)*



```
@media (min-width: 1024px) {  
  /* CSS Here */  
}
```

## Extra Large Devices

*(Large Desktops)*



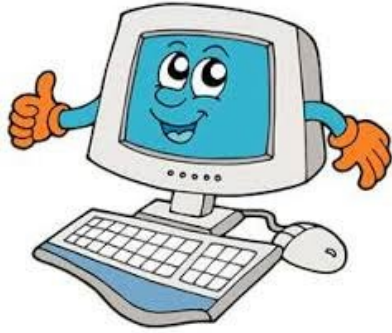
```
@media (min-width: 1224px) {  
  /* CSS Here */  
}
```

## @media query vs. meta viewport

### Both are necessary....

**Media queries** are used to have different css for different devices its like the if condition for different devices.

**Viewport** meta tag is to set tell the device to take the width according to this tag. Its like a reset for devices if its not used device will adjust the layout according to its default settings.



## **Lab 8:** Responsive Student Page

- Make your student page responsive
- Upload completed lab to server to *lab08* folder
- Link it on your Student Page