

# Meta Tag, Responsive Web Design

*ITP 104*  
*Fall 2018*

# <meta> Tag

Specifies additional information about the document.

<meta> tags must be within <head> tag.

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

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

```
<meta name="description" content="Lecture on Meta Tags in ITP 104.">
```

# 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



# Viewport Meta Tag

Specifies how viewport should behave.

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

```
<meta name="viewport" content="width=device-width, initial-scale=1">
```

Page width should be same as device/screen width.

Initial zoom on the page.  
1 means no zoom.

# CSS @media rule

Also called **media query**.

Specifies different CSS rules for different devices.

No set rules or standard breakpoints.

Breakpoints used by [Bootstrap](#):

≥ 1200px	Large Desktops
1199px - 992px	Desktops / Laptops
991px - 768px	Tablets
767px - 576px	Landscape Phones
≤ 575px	Portrait Phones

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

Viewports 800px or smaller.

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

Viewports 800px or larger.

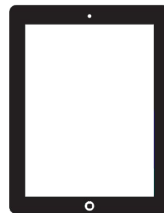
# Desktop First Responsive Design

Extra Large Devices  
*(Large Desktops)*

Large Devices  
*(Desktops/Laptops)*

Medium Devices  
*(Tablets)*

Small Devices  
*(Mobile Phones)*



Default CSS.  
No media query.

```
@media (max-width: 1199px) {  
  /* CSS Here */  
}
```

```
@media (max-width: 991px) {  
  /* CSS Here */  
}
```

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

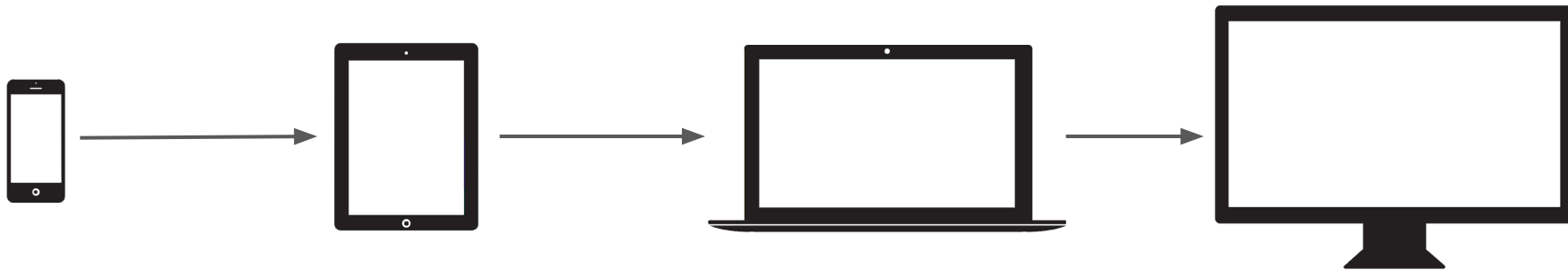
# Mobile First Responsive Design

Small Devices  
(Mobile Phones)

Medium Devices  
(Tablets)

Large Devices  
(Desktops/Laptops)

Extra Large Devices  
(Large Desktops)



Default CSS.  
No media query.

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

```
@media (min-width: 992px) {  
  /* CSS Here */  
}
```

```
@media (min-width: 1200px) {  
  /* CSS Here */  
}
```