

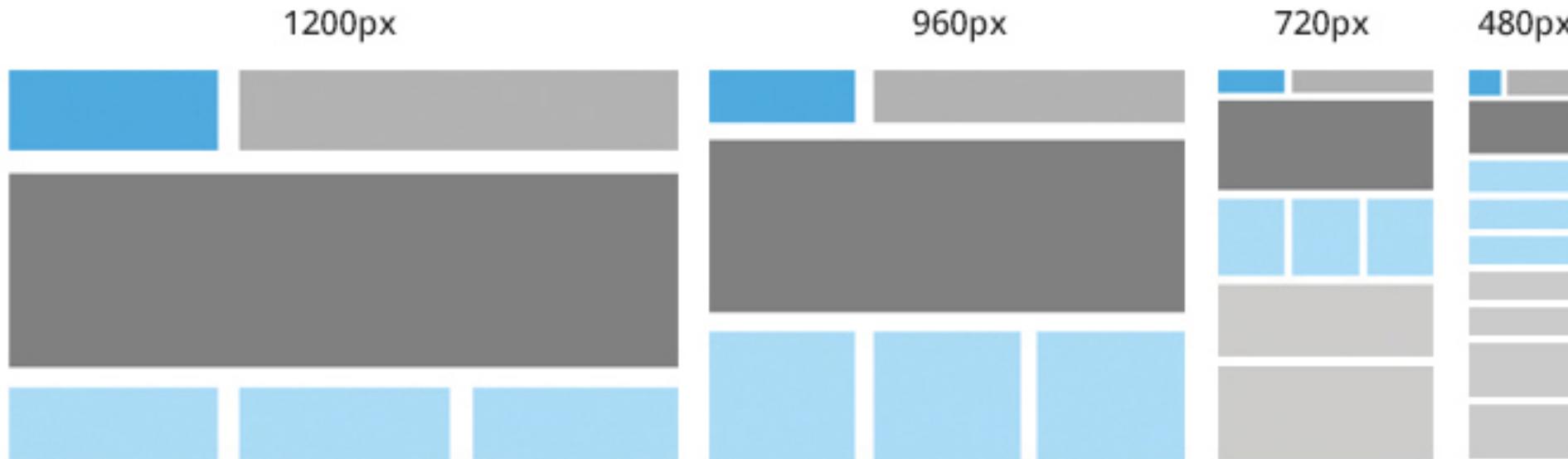
Responsive Web Design

반응형 웹

Responsive Web Design

Mobilizing Your Website with RWD Project Key Point Gude, HTML5, CSS3

데스크탑에서 모바일 기기까지 각각 다른 다양한 해상도의 디바이스에 맞춰 웹사이트의 레이아웃이 동적으로 변환되면서 텍스트, 이미지 및 UI가 최적화되어 보여지도록 하는 기법



- ▶ nmc-fleetfeet-ecommerce-home-mobile
- ▶ nmc-fleetfeet-ecommerce-ipad
- ▶ nmc-fleetfeet-ecommerce-home

nmc-fleetfeet-ecommerce-home

nmc-fleetfeet-ecommerce-ipad

nmc-fleetfeet-ecommerce-home-mobile

Position

X

Y

Size
Width

Height

Transform
Rotate

Flip

Opacity

Blending
 Normal

Fills

Borders

Shadows

Inner Shadows

Gaussian Blur

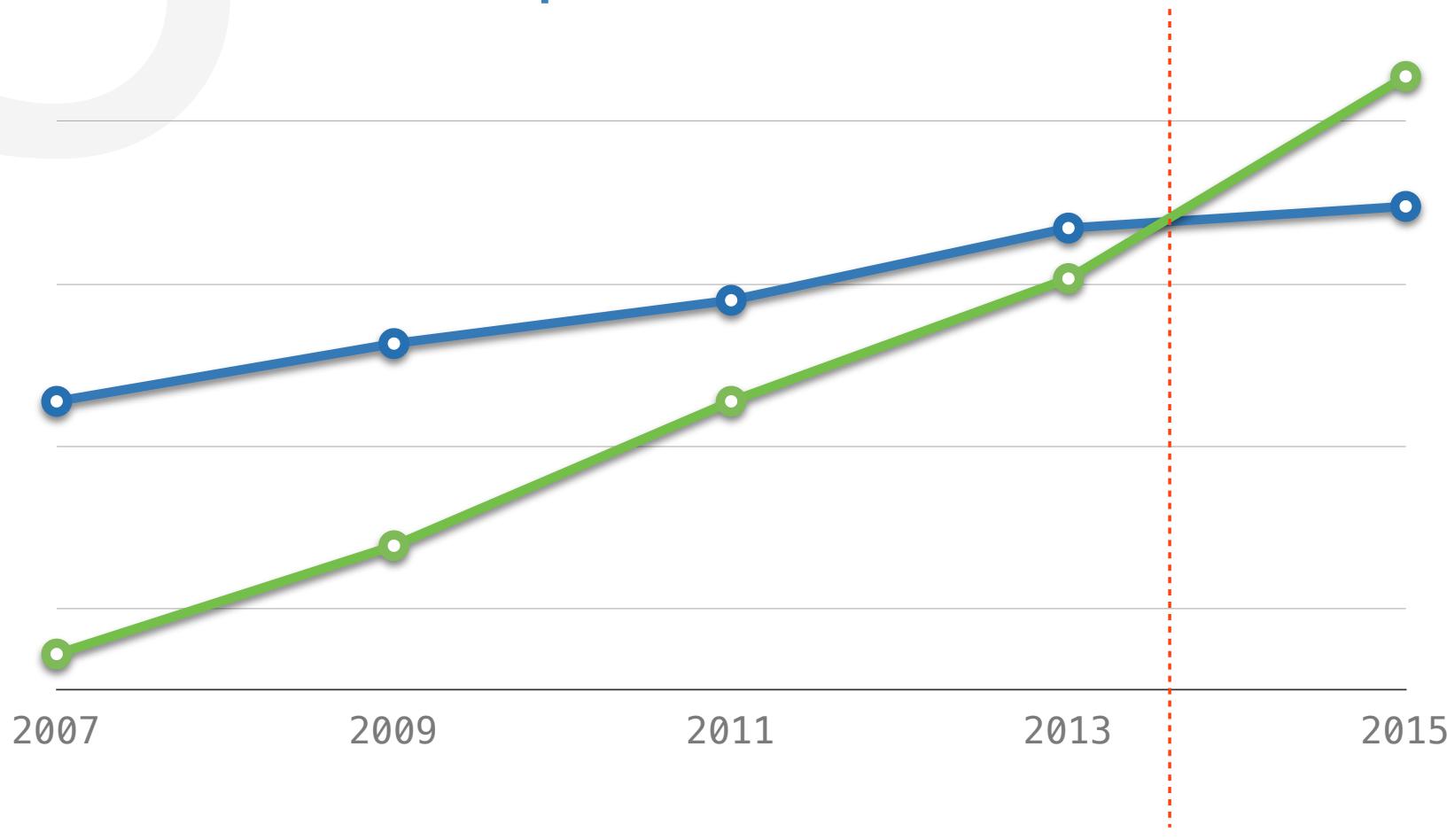
CURRENT

Desktop First



Mobile vs Desktop

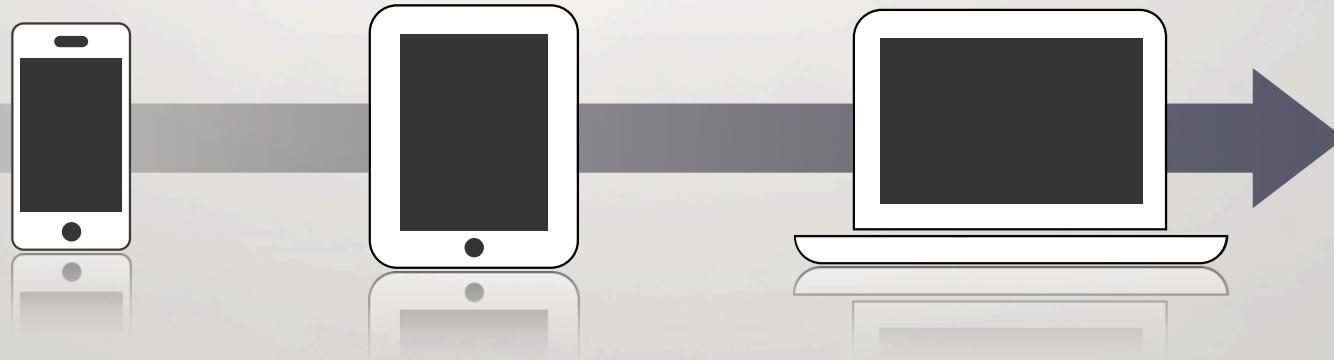
IDC
Analyst View



+

NEXT

Mobile First



Mobile site

iPad Apps

Website

480 x 320

320 x
480

768 x 1024

1024 x 768

1680 x 1050

Smart Phones

»

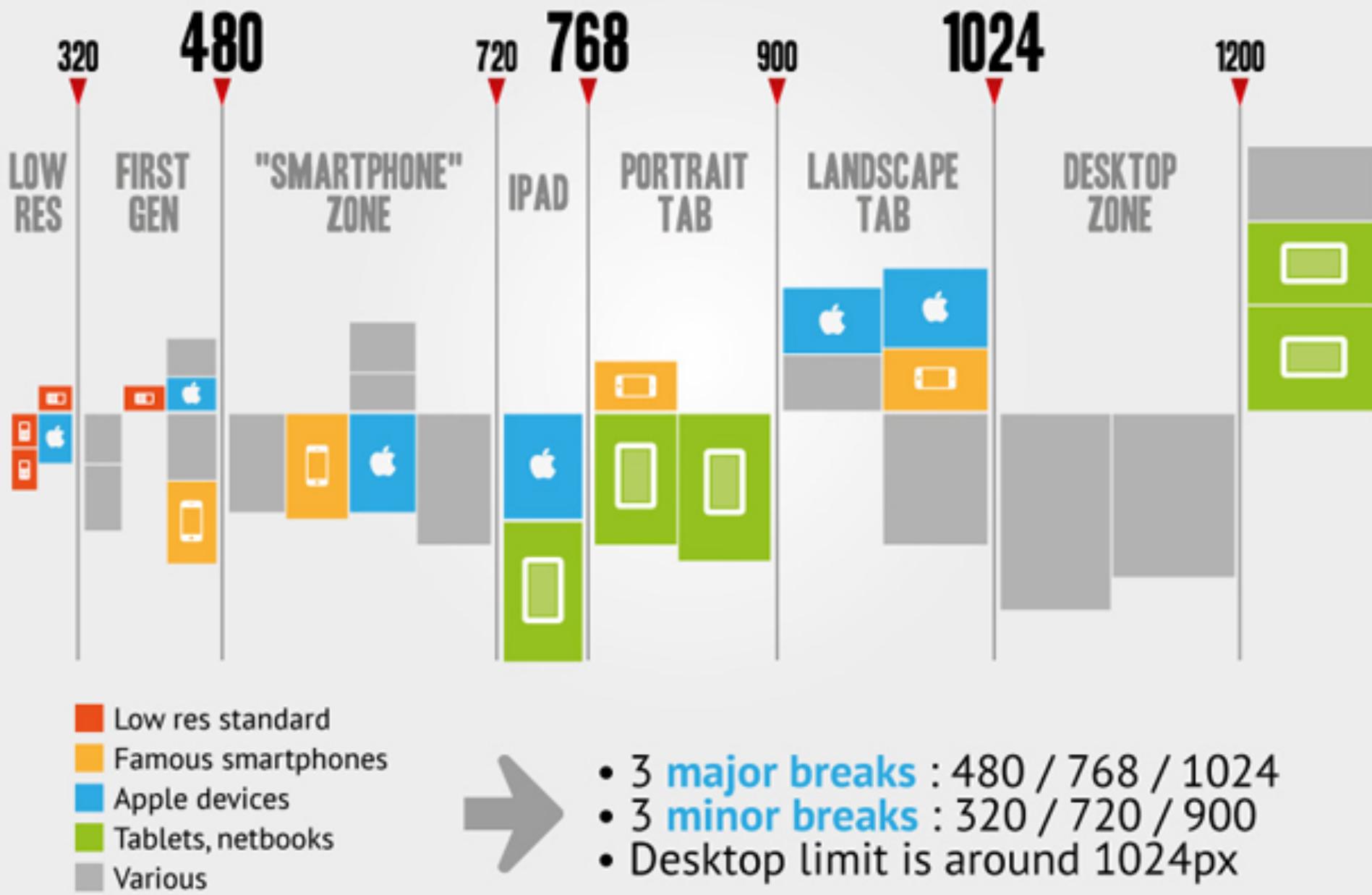
Tablets

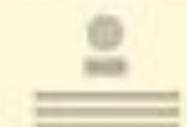
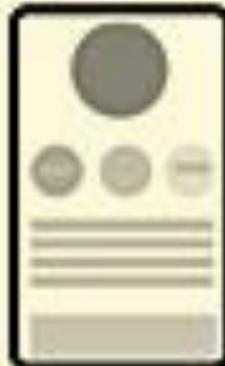
»

Netbooks

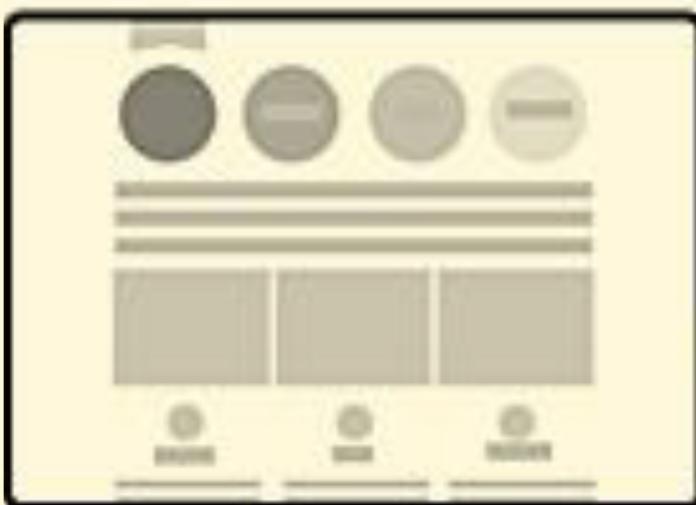
»

Desk tops





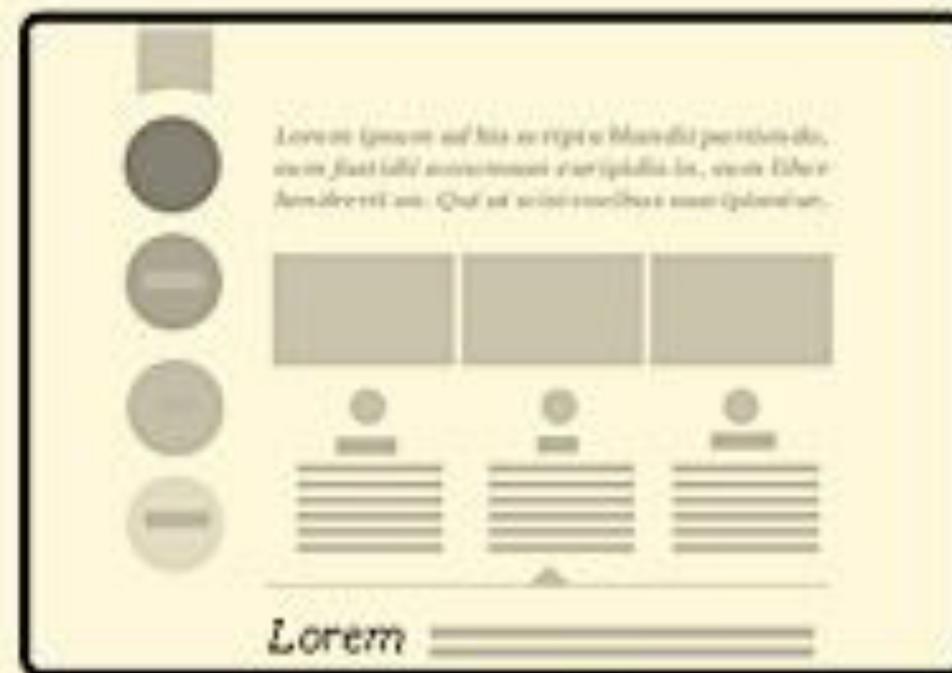
media



Lorem _____



Ipsum _____



Lorem _____



Ipsum _____



TIME
MAGAZINE

Barack Obama
Person of the Year

Barack Obama, Architect of the New America

Person of the Year: Barack Obama, Architect of the New America

MATT PORTERFIELD

TIME.COM

TIME
MAGAZINE

Barack Obama
Person of the Year

Barack Obama, Architect of the New America

Person of the Year: Barack Obama, Architect of the New America

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MAGAZINE

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Person of the Year: Barack Obama, Architect of the New America

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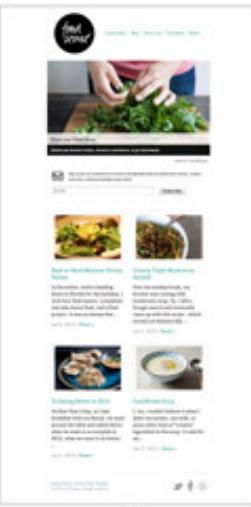
INTRODUCTION

MATT PORTERFIELD

320 wide



480 wide



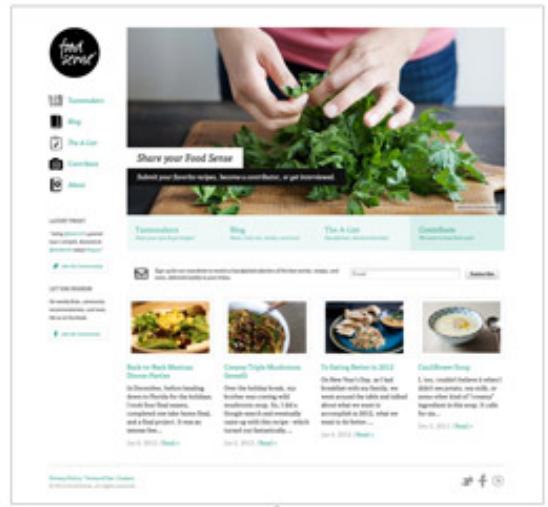
768 wide



1024 wide



1280 wide



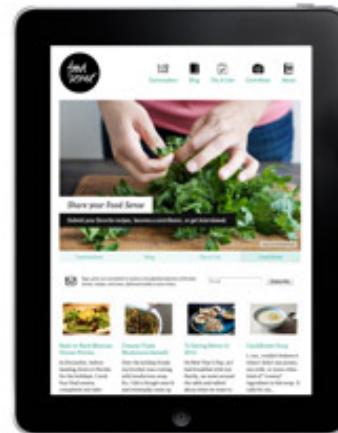
Responsive Web Design allows your site layout to adapt to multiple screen sizes.



iPhone
(portrait)



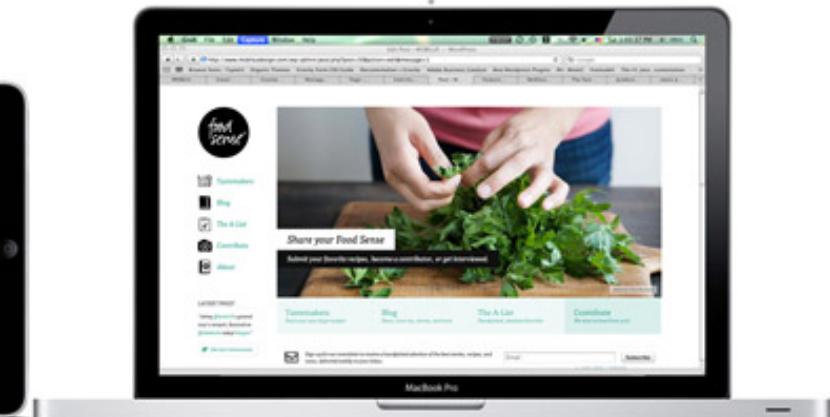
iPhone
(landscape)



iPad
(portrait)



iPad
(landscape)



Laptop Computer
(typical size)

<http://troy.labs.daum.net/>

모바일 기기 크기파악

<https://mediaqueri.es/>

반응형 웹페이지 제작 예시 페이지

<https://blisk.io/>

모바일, pc 페이지 비교확인

Phones 4-6"
Phablets 5-7"

Tablets:
Hybrid Tablet/Desktops

Desktops

Small
320-479px

Medium
480-639px

Large
640-1239px

X-Large
1024-1965px

XXL-X Large
1966-3939px

XXX-Large
1920-2559px

iPhone 5c, 5s
720x1280



4"

Nokia Lumia 1020
3840x2040



4.5"

Nokia Lumia 830
560x940



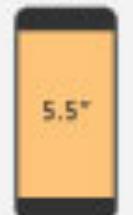
5"

Samsung Galaxy S5
360x640



5.1"

iPhone 6 Plus
454x736



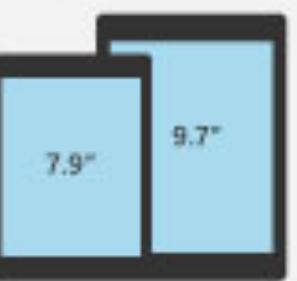
5.5"

Samsung Galaxy Note 4
424x744 (approx)



5.7"

iPad Mini
768x1024
0.8% smaller
than iPad



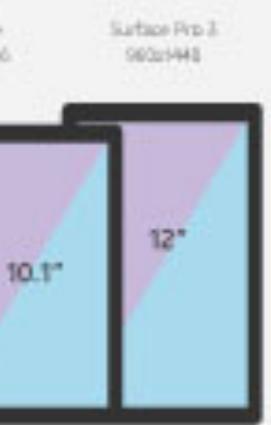
7.9"

iPad
768x1024



9.7"

Surface
768x1024



10.1"

Surface Pro 3
960x1440



12"

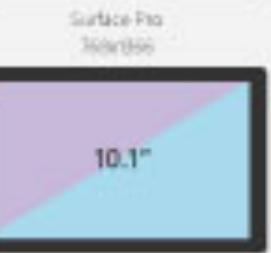
iPad Mini
924x1200 (80% smaller than iPad)



7.9"



9.7"

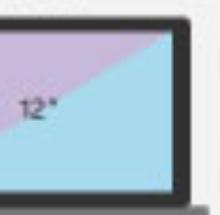


10.1"



13"

Surface Pro 3
1440x960



12"

ThinkPad X240 Ultrabook Laptop
1260x768



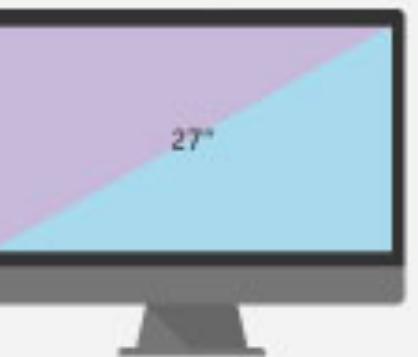
12.5"

LG Flatron E2350W
1920x1080



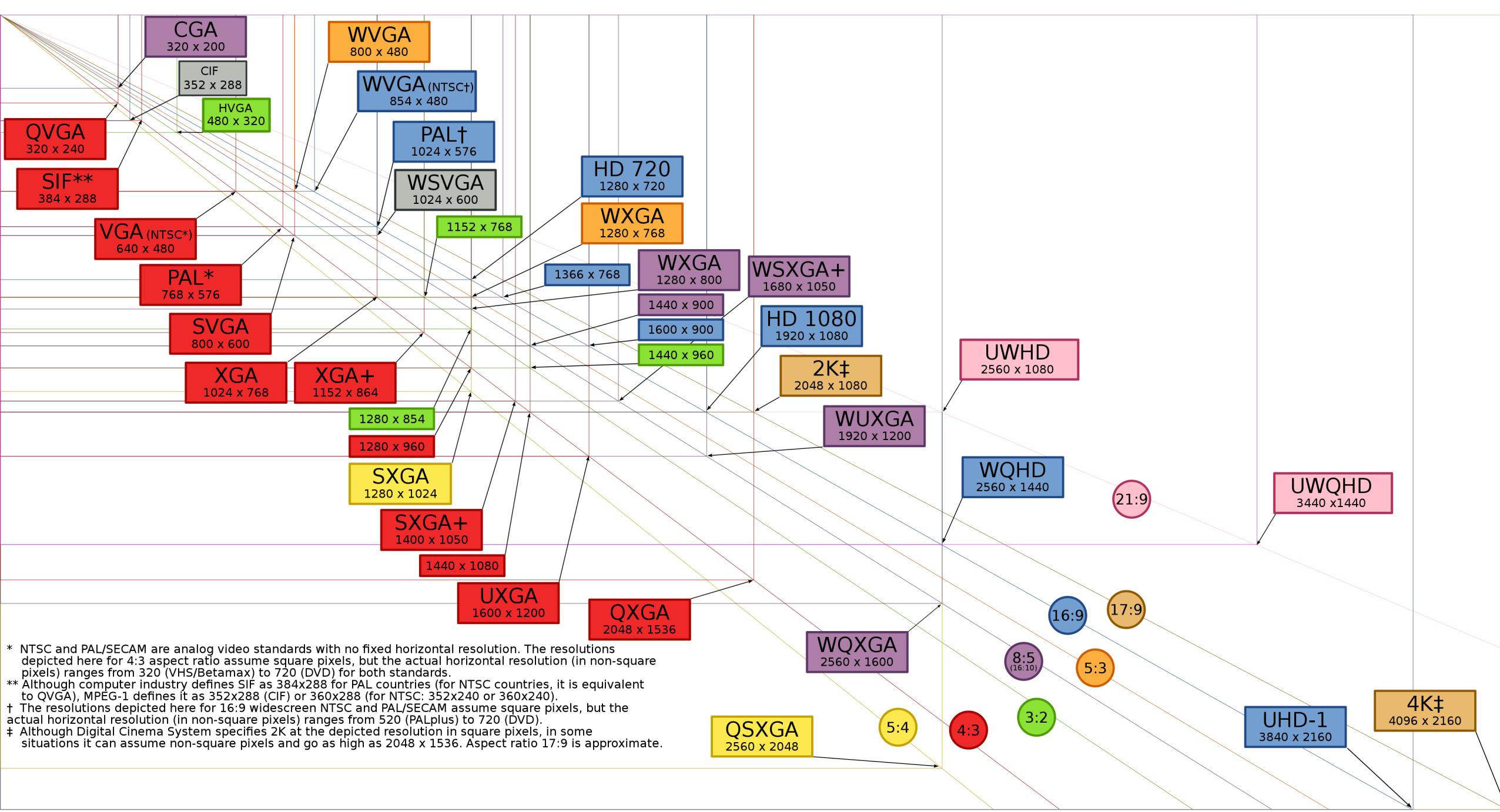
23"

XXXL-X Large
2560x1440+



27"

HP Z G2
2560x1440



Getting started

An overview of Bootstrap, how to download and use, basic templates and examples, and more.



Become an engineer - join MakerSquare's 12-week immersive JavaScript classes.

ads via Carbon

9 Columns

Download

Bootstrap (currently v3.3.5) has a few easy ways to quickly get started, each one appealing to a different skill level and use case. Read through to see what suits your particular needs.

Bootstrap

Compiled and minified CSS, JavaScript, and fonts. No docs or original source files are included.

[Download Bootstrap](#)

Source code

Source Less, JavaScript, and font files, along with our docs. Requires a Less compiler and some setup.

[Download source](#)

Sass

Bootstrap ported from Less to Sass for easy inclusion in Rails, Compass, or Sass-only projects.

[Download Sass](#)

3 Columns

Bootstrap CDN

The folks over at MaxCDN graciously provide CDN support for Bootstrap's CSS and JavaScript. Just use these Bootstrap CDN links.

```
<!-- Latest compiled and minified CSS -->
<link rel="stylesheet"
      href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.5/css/bootstrap.min.css">

<!-- Optional theme -->
<link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.5/css/bootstrap-theme.min.css">
```

Copy

Back to top

Download

What's included

Compiling CSS and JavaScript

Basic template

Examples

Tools

Community

Disabling responsiveness

Migrating from 2.x to 3.0

Browser and device support

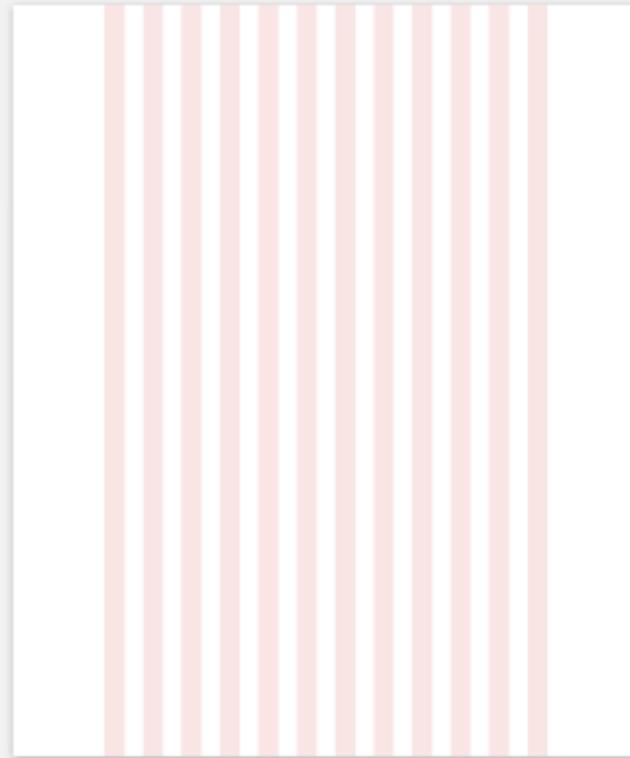
Third party support

Accessibility

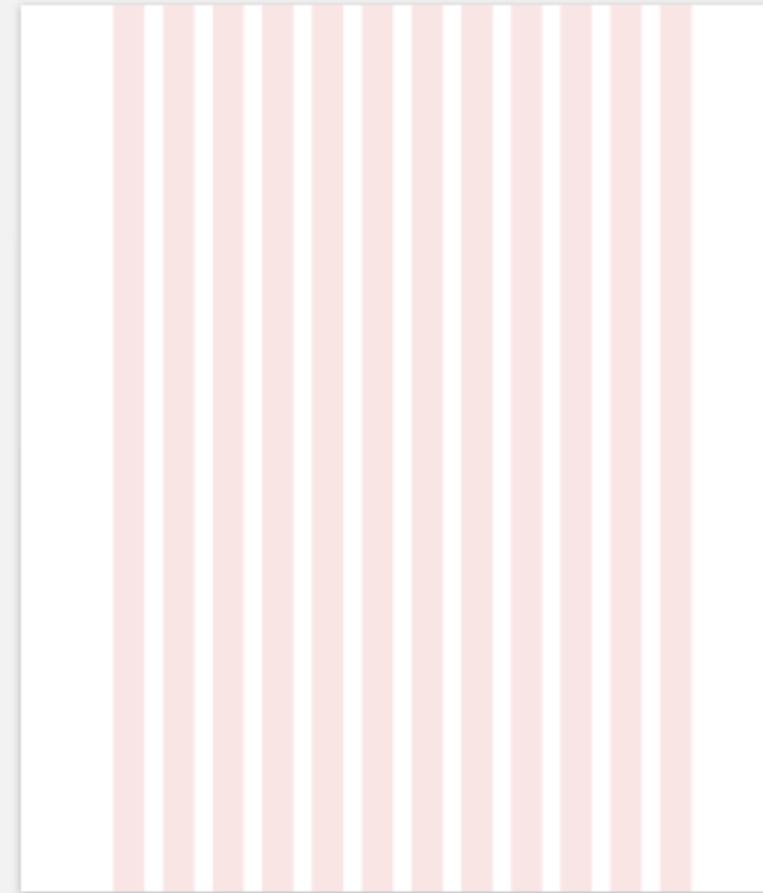
License FAQs

Translations

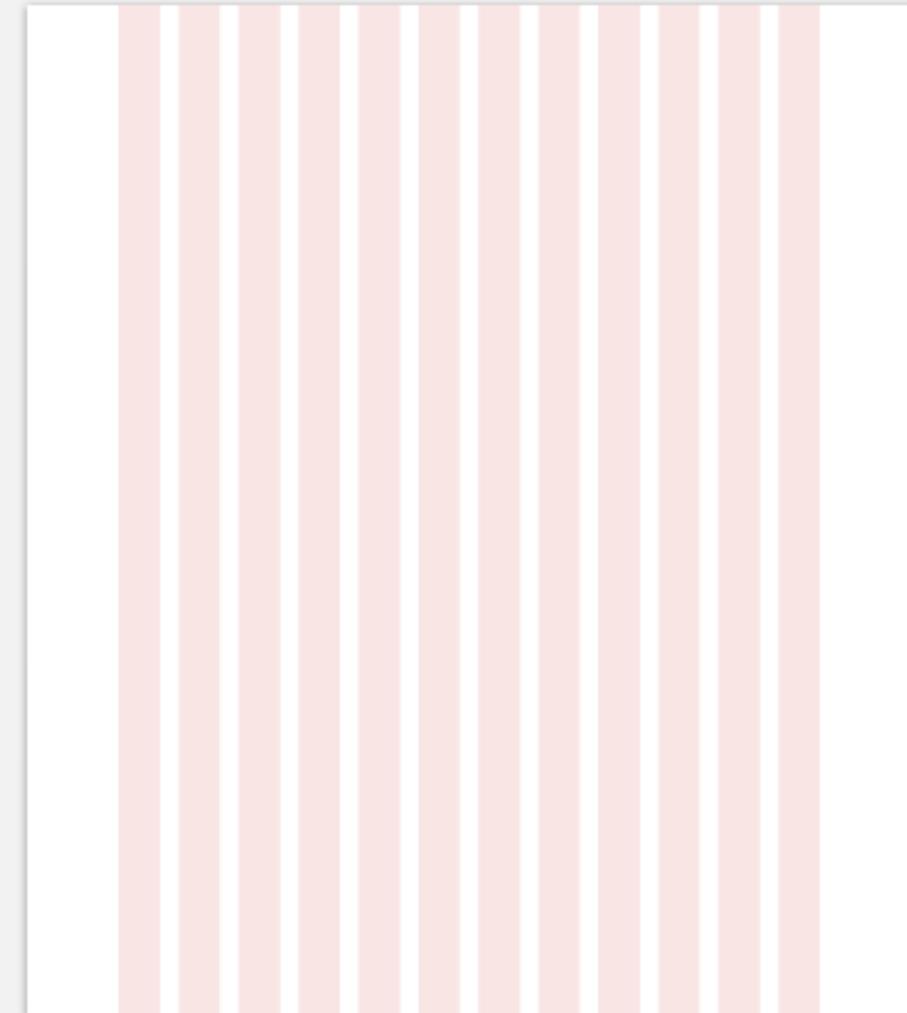
(Small Devices (≥ 768px)

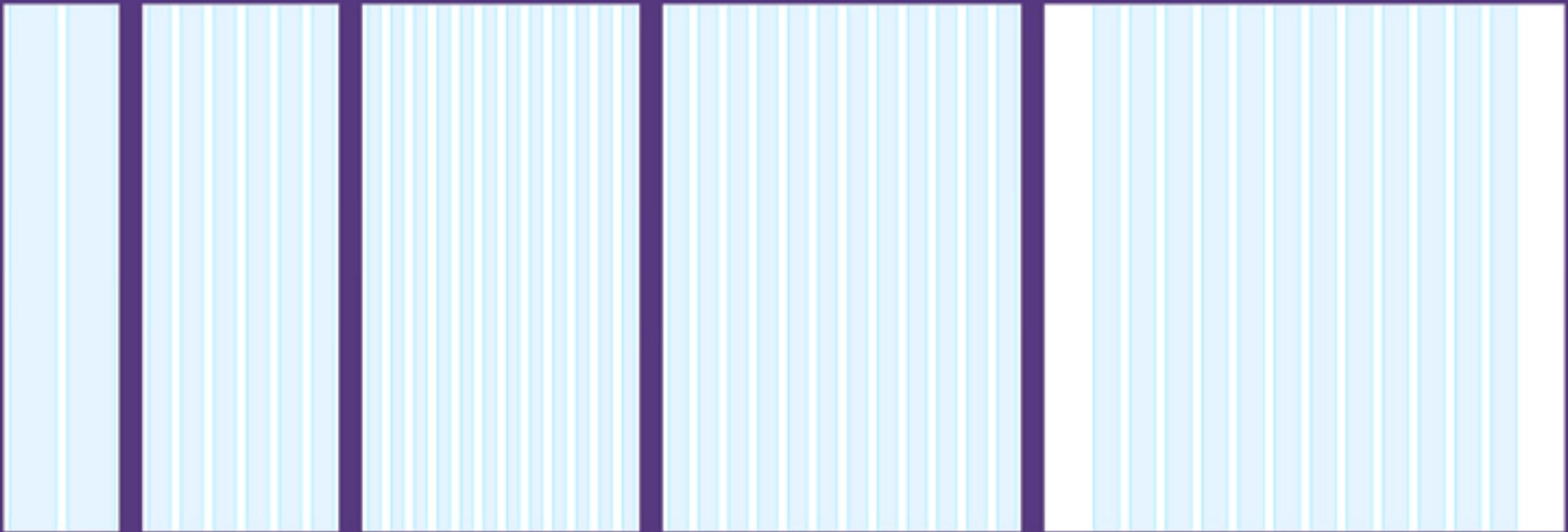


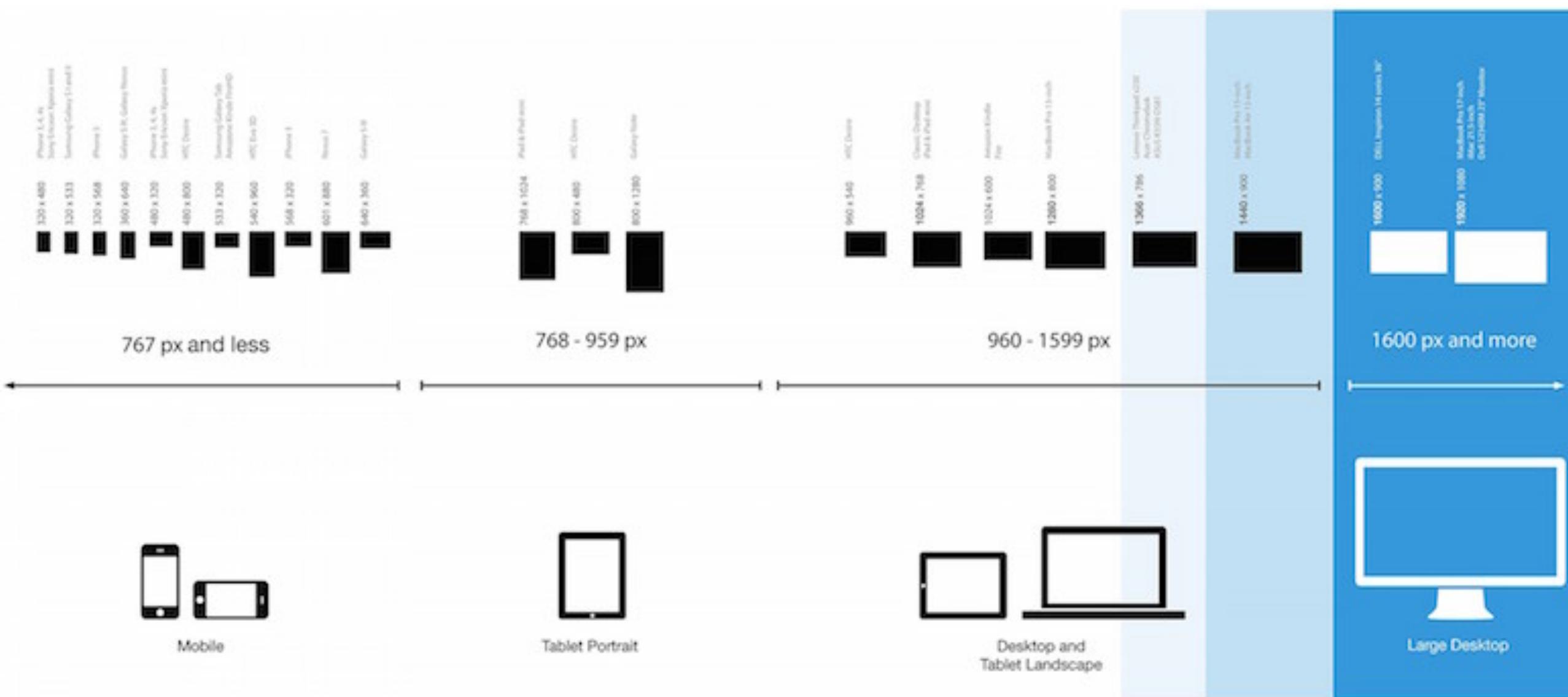
Medium Devices (≥ 970px)

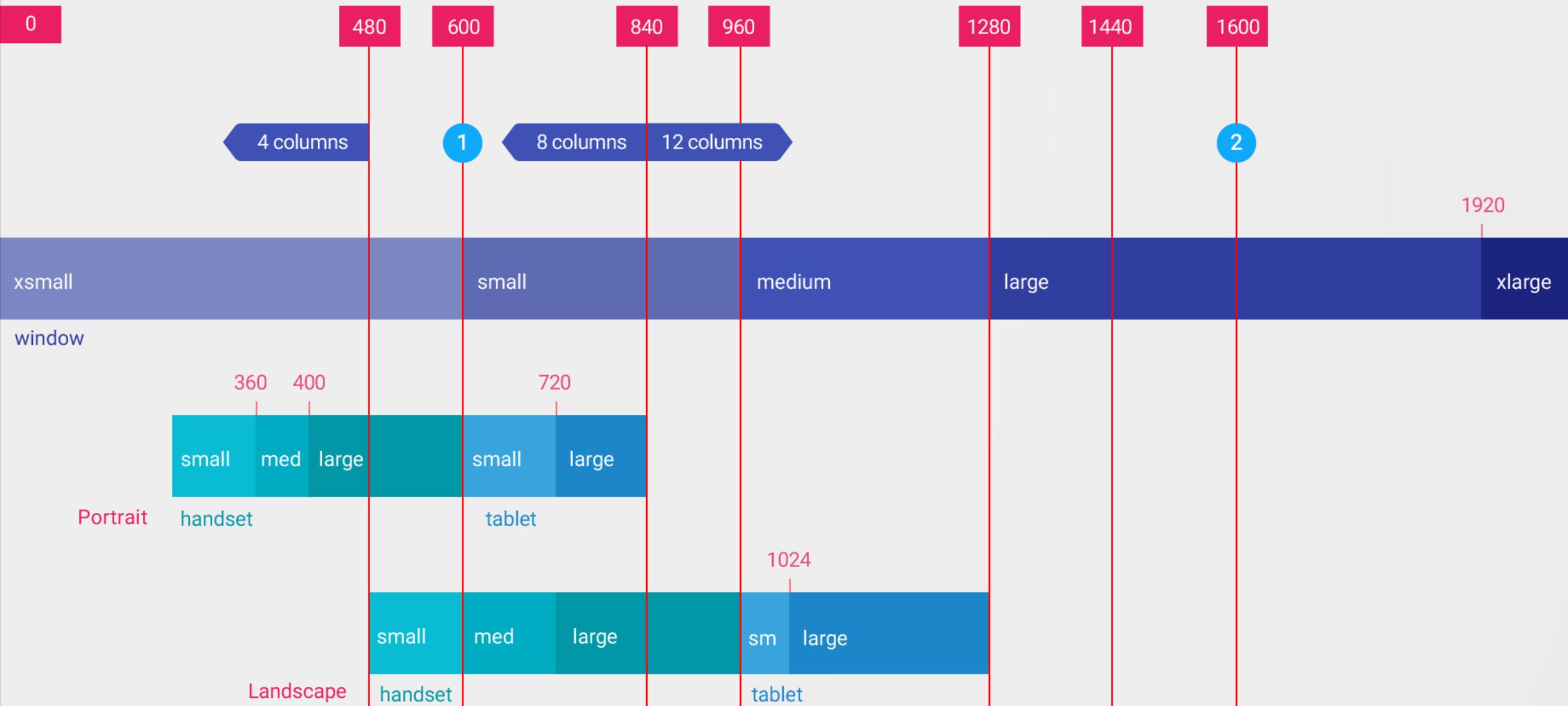


Large Devices (≥ 1200px)









RESPONSIVE BREAKING POINTS

A VISUAL GUIDE FOR RESPONSIBLE DESIGNERS



DEVICES

come in many shapes and sizes—with new ones hitting the market every day. Instead of attempting to code a media query for each one, streamline to 4 base standard breaking points.

```
/* LANDSCAPE PHONES AND SMALLER */  
@MEDIA  
(MAX-WIDTH: 480PX) { ... }
```



```
/* PORTRAIT TABLETS AND MINI'S TOO */
```

```
@MEDIA
```

```
(MAX-WIDTH: 767PX) { ... }
```



`/* LANDSCAPE TABLETS */`

`@MEDIA`

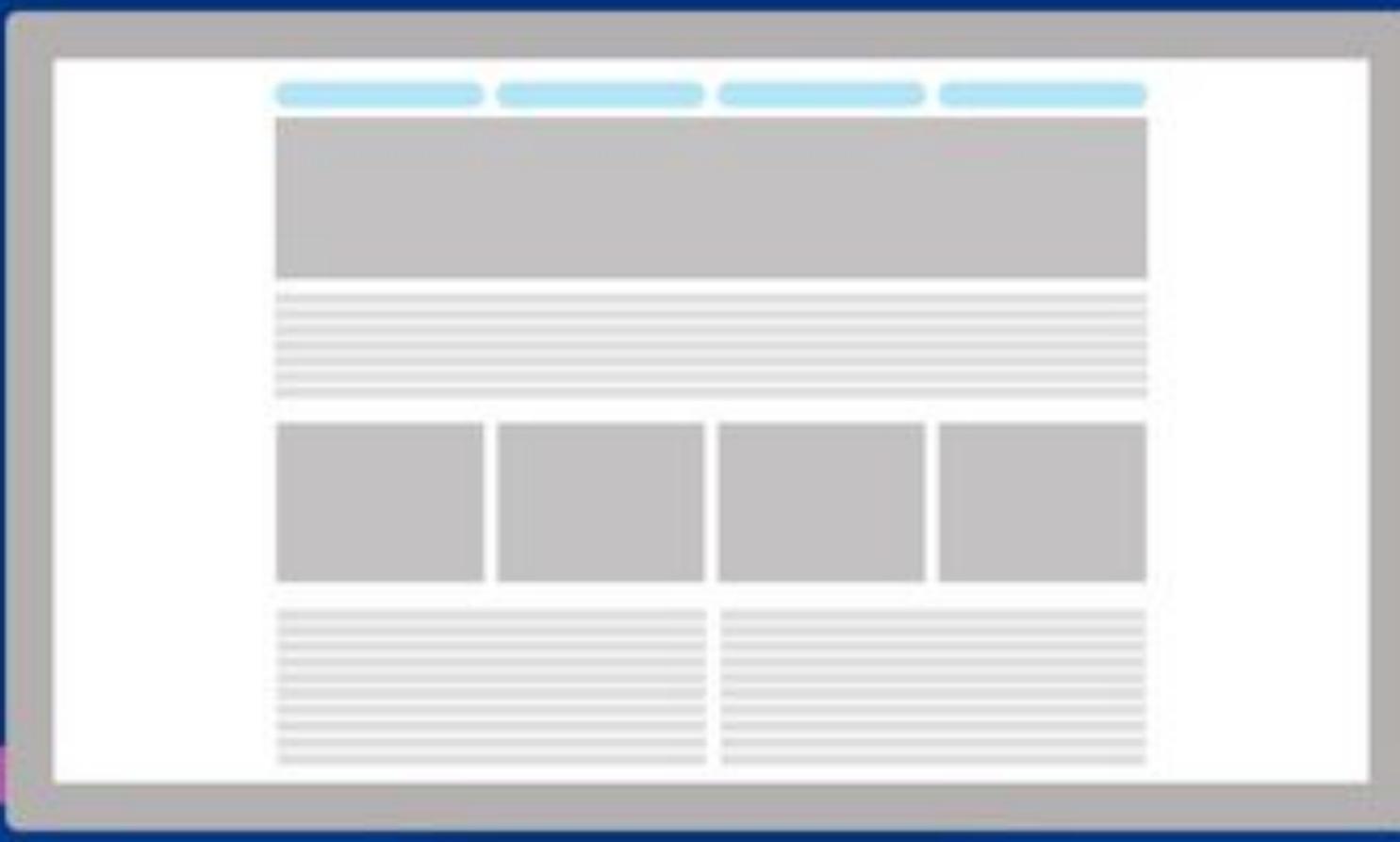
`(MIN-WIDTH: 768PX) AND (MAX-WIDTH: 979PX) { ... }`



YOUR BASE CSS WILL COVER THE
“DEFAULT”: 980PX AND UP



```
/* LARGE DESKTOP */  
@MEDIA  
(MIN-WIDTH: 1200PX) { ... }
```



320

480

600

640

768

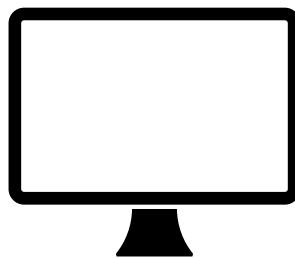
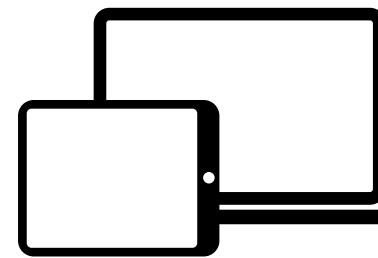
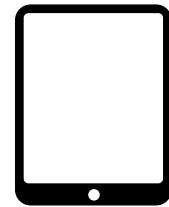
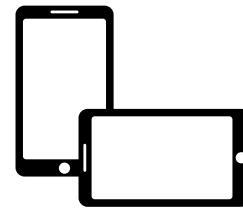
1024

1280

1366

1600

1920



320

480

600

640

768

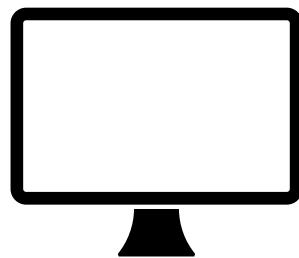
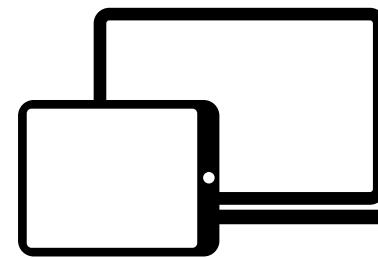
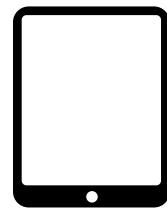
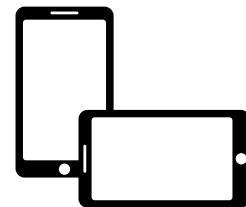
**1024
(960)**

1280

1366

1600

1920



320

480

600

640

768

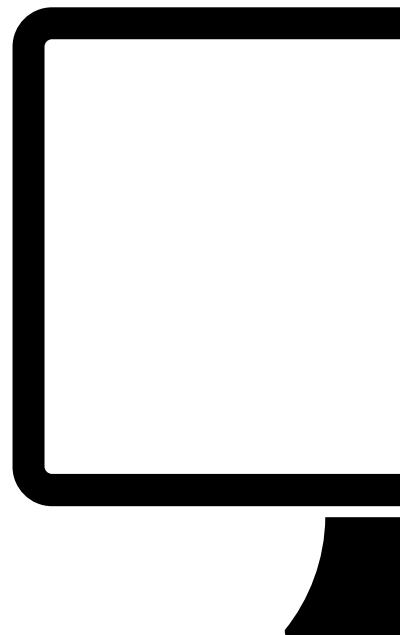
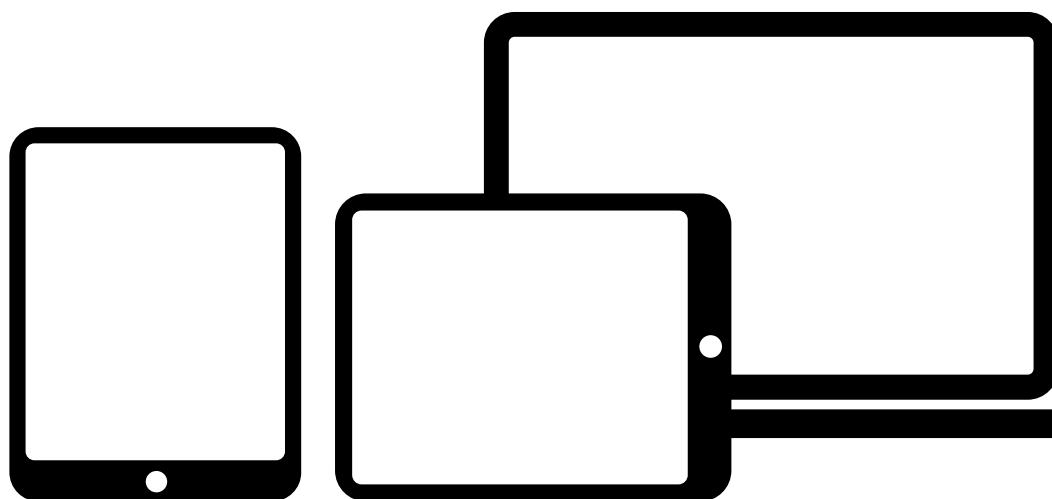
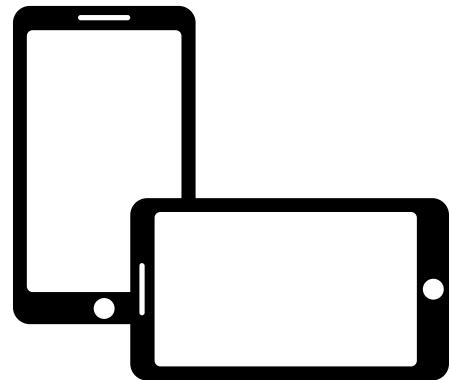
1024
(960)

1280

1366

1600

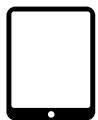
1920



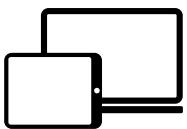
CSS



```
/* ~ 480 : mobile(v,h,android-V) */  
@media screen and (max-width: 480px) { }
```



```
/* 481 ~ (767) : tablet(v,h,pc-min) */  
@media screen and (min-width: 481px) and (max-width:767px) { }
```



```
/* 768 ~ (1366) : PC(19~), labtop */  
@media screen and (min-width: 768px) and (max-width:1366px) { }
```



```
/* 1367 ~ full : fullpage(pc full) */  
@media screen and (min-width: 1367px) { }
```

Javascript(jQuery)

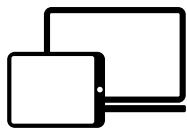
```
var $w = $(window).width();
```



```
if($w <= 480){  
    // ~ 640 기능 구하기
```



```
} else if( ($w > 480) && ($w <= 767) ){  
    // 480 ~ 767기능 구하기
```



```
} else if( ($w > 767) && ($w <= 1366) ){  
    // 768~ 1366 기능 구하기
```



```
} else {  
    // 1366 ~ 기능 구하기
```

```
}
```

Javascript(jQuery)2

```
// 스마트폰, 태블릿 등 모바일기기의 경우  
// 스크롤사용시 상단 컨트롤 및 메뉴창이 세로화면이 원활한 화면을 볼수 없기에  
// 가로화면만 변동되도록 처리한다.  
  
// 화면사이즈변경전 가로값  
var $w = $(window).width();  
  
// 브라우저의 사이즈 변경시  
$(window).on('resize', function( ) {  
  
    // 변경된 가로값을 판단(화면 변경시 가져오는 가로값)  
    var nowW = $(window).width();  
  
    // 가로값이 일치하지 않을경우 새로고침  
    if(nowW != $w ) {      location.reload(); }  
  
}); // resize,function  
  
// 모바일기기의 경우 세로 스크롤시 상단 주소창이 사라지는현상으로  
// 브라우저 크기가 변경됨(resize)을 인지하게 되므로 이를 방지하기위해 설정
```

CSS

```
@media screen and (max-width: 480px) { }
@media screen and (min-width: 481px) and (max-width:767px) { }
@media screen and (min-width: 768px) and (max-width:1366px) { }
@media screen and (min-width: 1367px) { }
```

js

```
var rwd = function () {
    var $w = $(window).width();
    if ($w <= 480) { }
    else if ( ($w > 480) && ($w <= 767) ) { }
    else if ( ($w > 767) && ($w <= 1366) ) { }
    else { }
};

var $w = $(window).width();
$(window).on('resize', function() {
    var nowW = $(window).width();
    if ( nowW != $w ) {
        location.reload();
        rwd();
    }
});
```

```
var $w = $(window).width();

if($w <= 640){
    // ~ 640 기능 구하기

} else if( ($w > 640) && ($w <= 1024) ){
    // 641 ~ 1024 기능 구하기

} else if( ($w > 1025) && ($w <= 1366) ){
    // 1025 ~ 1366 기능 구하기

} else {
    // 1366 ~ 기능 구하기

}
```

```
var $w = $(window).width();

// 브라우저의 사이즈 변경시
$(window).on('resize', function(){

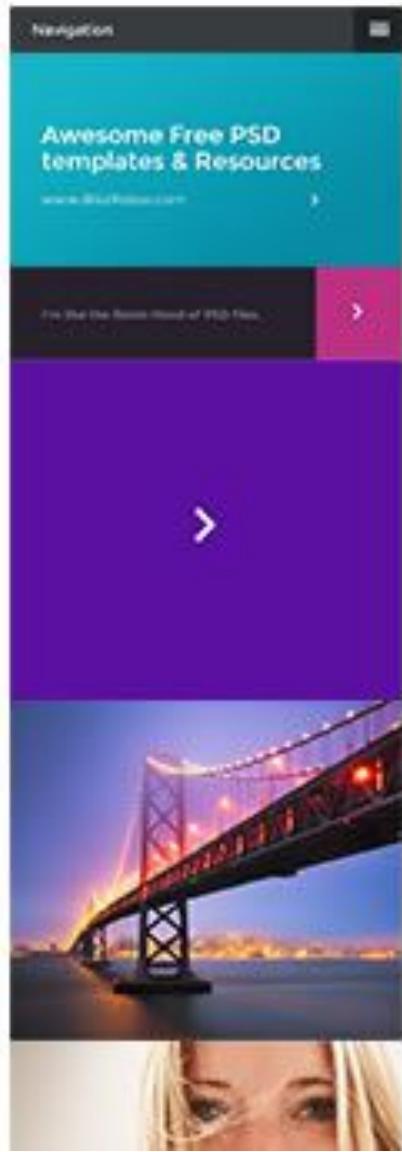
    // 변경된 가로값을 판단하여서
    var nowW = $(window).width();
    // 가로값이 일치하지 않을경우 새로고침

    if(nowW !== $w ) {
        location.reload();
    }
});
```

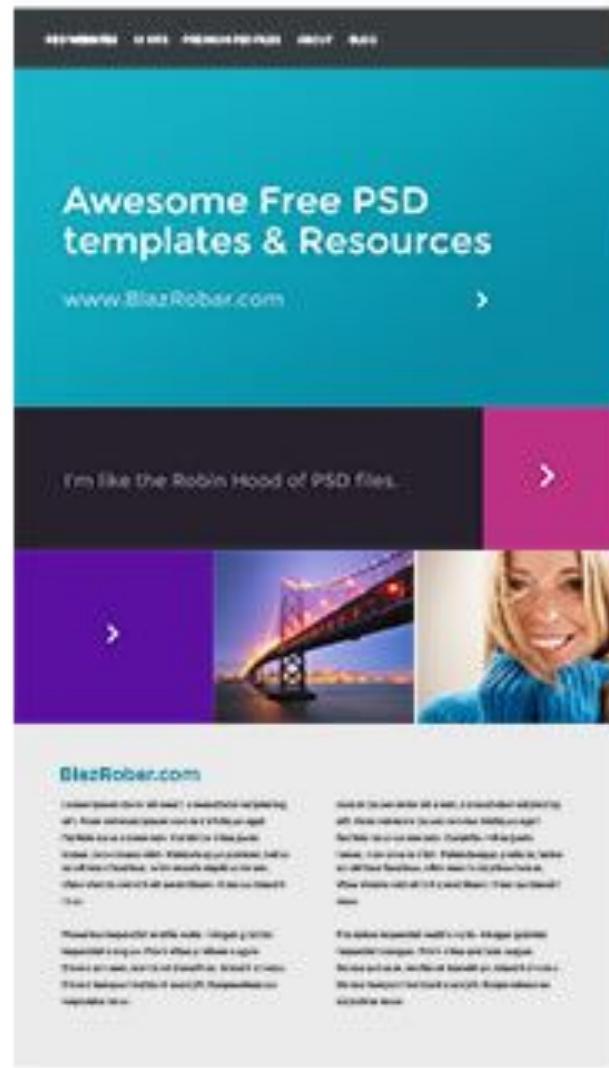
Mobile width & 800px



Device width & 800px



Device width & 800px



Device width & 800px

