CSS
MEDIA QUERY
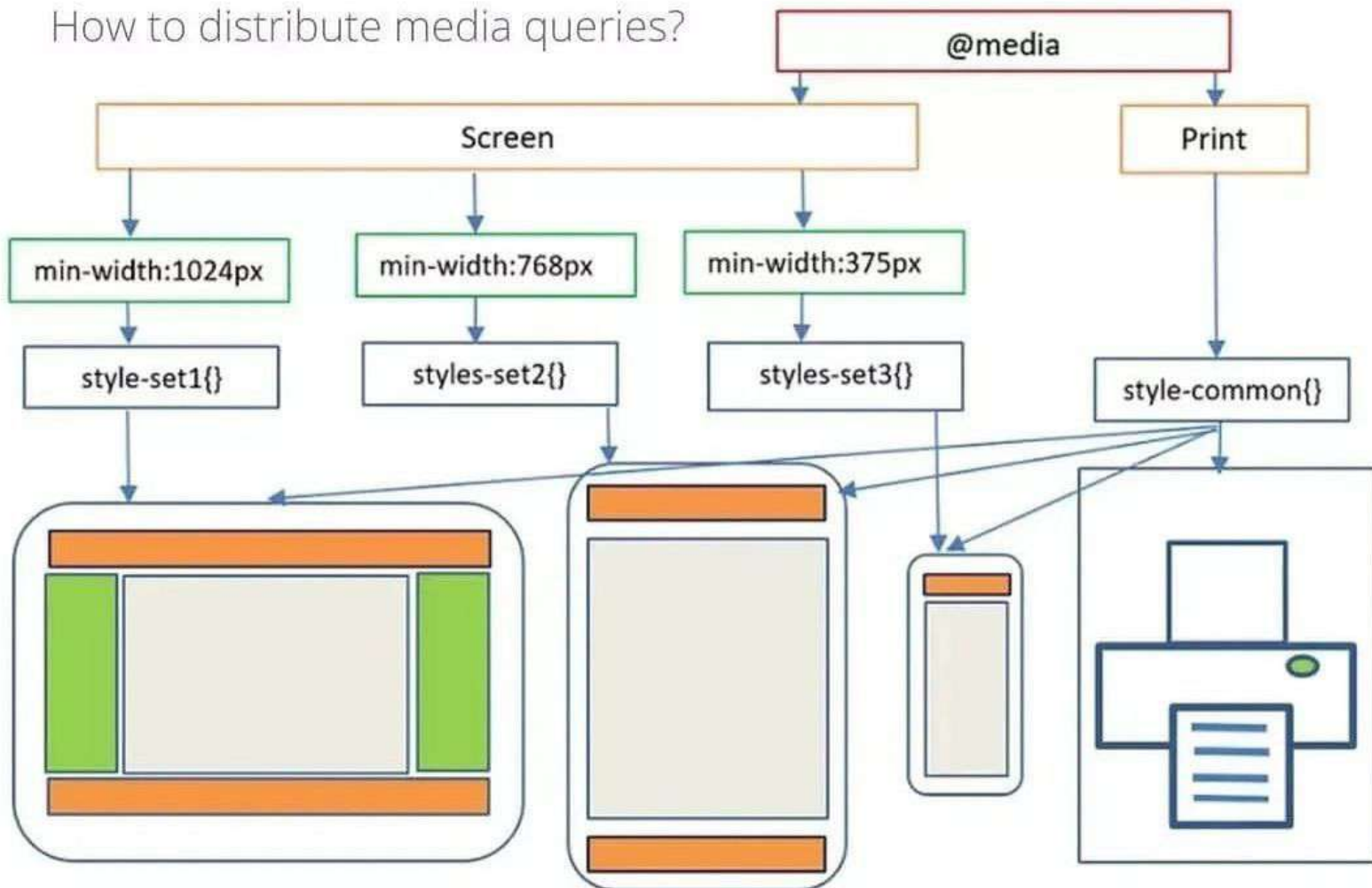

Responsive Web Design

1024+   1023 - 768   767 - 320

MEDIA QUERY ?

Media queries are a CSS3 function that allows you to specify the display of a document for different output **media and screen sizes.**

How to distribute media queries?

```
                                              @media

      Screen                                                    Print

min-width:1024px    min-width:768px    min-width:375px

  style-set1{}        styles-set2{}      styles-set3{}          style-common{}
```

UNDERSTANDING SYNTAX

MEDIA TYPE

MEDIA FEATURE

```
/* When the browser is at least 600px and above */
@media screen and (min-width: 600px) {
  .element {
    /* Apply some styles */
  }
}
```

OPERATOR

AT-RULE

BREAKPOINTS

mobile ——————————————————————————————— desktop
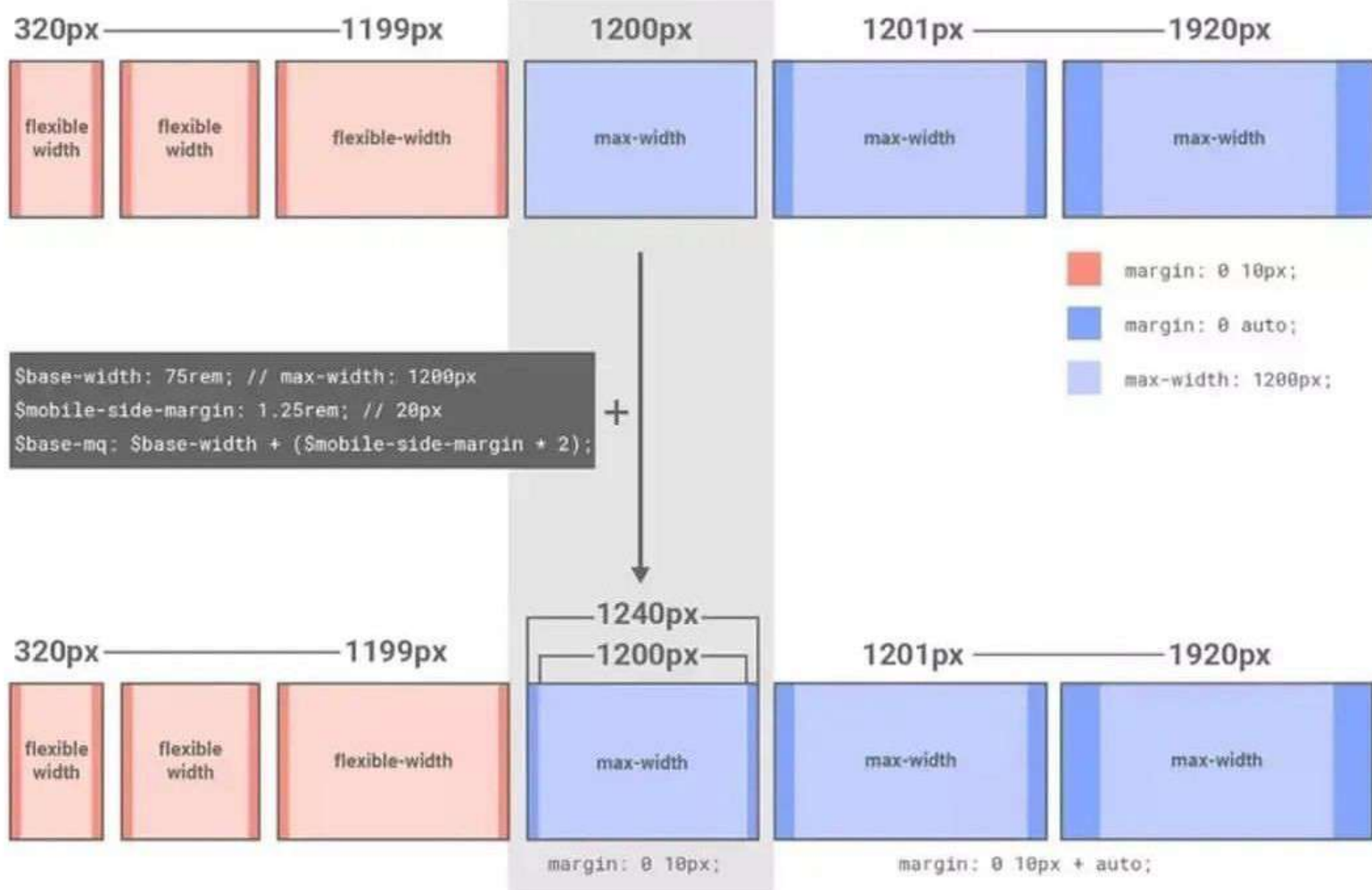
```
//Page level breakpoints
$mq-small: 'screen and (max-width: 37.438em)';    // max upto 599px
$mq-medium: 'screen and (min-width: 37.5em)';     // min from 600px
$mq-large: 'screen and (min-width: 60em)';        // min from 960px
$mq-large-extra: 'screen and (min-width: 75em)';  // min from 1200px
```

320px ——————— 1199px	1200px	1201px ——————— 1920px

flexible width | flexible width | flexible-width | max-width | max-width | max-width

```
$base-width: 75rem; // max-width: 1200px
$mobile-side-margin: 1.25rem; // 20px
$base-mq: $base-width + ($mobile-side-margin * 2);
```

+

margin: 0 10px;		
margin: 0 auto;		
max-width: 1200px;		

↓

1240px
1200px

320px ——————— 1199px	1200px	1201px ——————— 1920px

flexible width | flexible width | flexible-width | max-width | max-width | max-width

margin: 0 10px;   margin: 0 10px + auto;
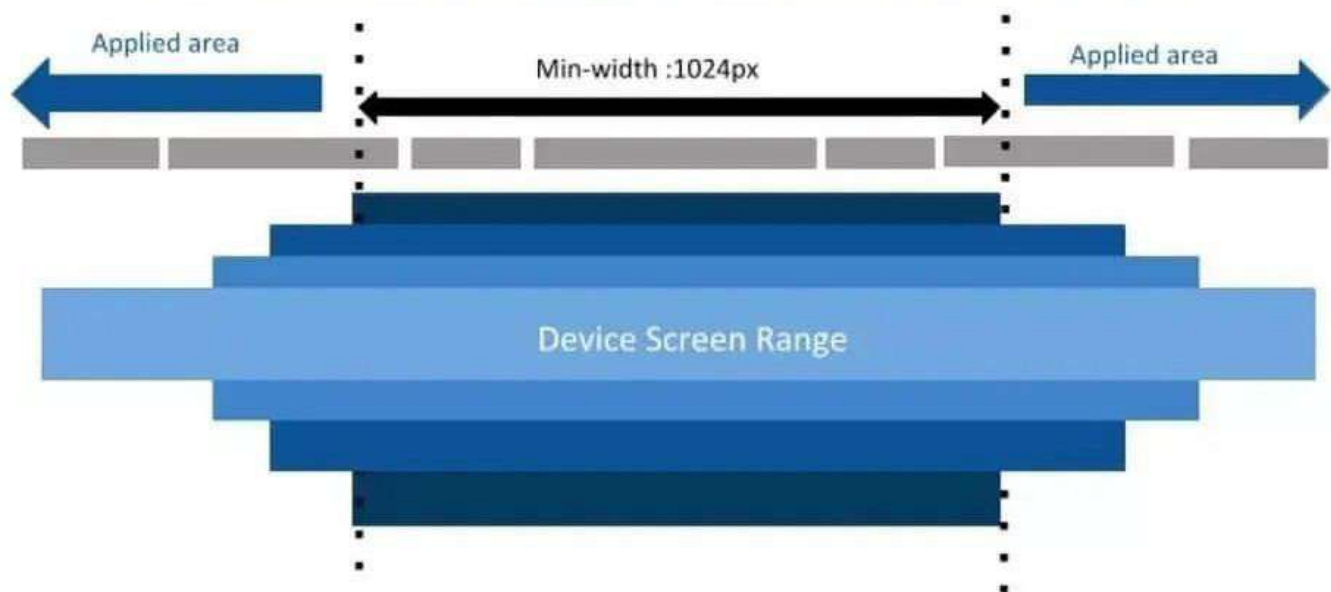
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SEE THE APPLIED AREAS IN FIGURE TO UNDERSTAND

MIN-WIDTH

```
@media (min-width: 1024px) { /*your styles here*/ }
```

Applied area

Min-width :1024px

Applied area

Device Screen Range

MAX-WIDTH

```
@media (max-width: 1024px) { /*your styles here*/ }
```

Applied area
max-width:1024px

Device Screen Range
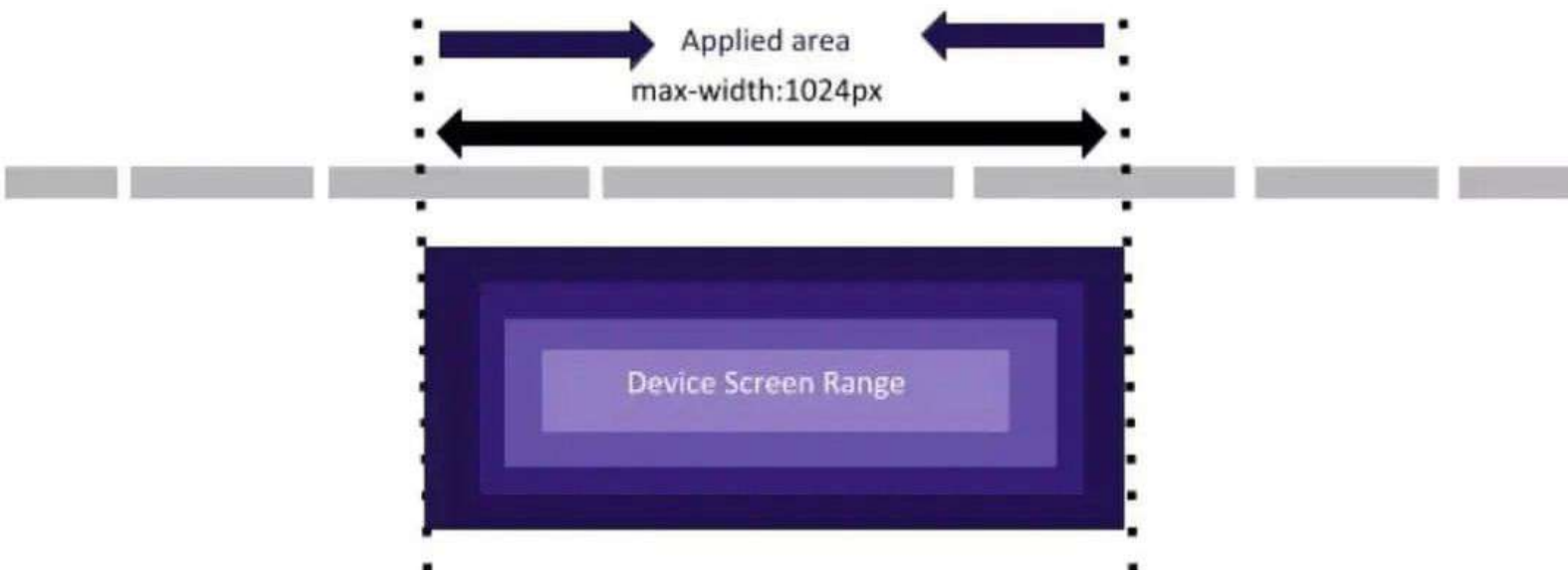
QUICK RECAP

Media query starts with @media keyword

Media types describe the general category of a device. For ex, in this case we are targeting devices with a screen

```
Syntax of Media rule

@media screen (min-width: 320px) and|or|not (max-width: 768px) {
    /* whole bunch of CSS Code 🖌 */

}
```

This is media feature which describe specific characterstic of media

and, or, not are operators.
Not - inverse the condition
And - when both conditions true
Or - atleast one condition must be true

"not" keyword simply invert the condition. That is, in this we can say that now condition becomes max-width: 600px

```
Not

@media not screen and (min-width: 600px) {
    div {
        border: 10px solid black;
    }
}
```

WRAP UP

```
/* Desktops */
@media (min-width:768px) {

}
```

All CSS within this media query applies ONLY to tablet, laptop or desktop screens

```
/* Mobiles */
@media (max-width:767px) {

}
```

All CSS within this media query applies ONLY to mobile screens

The CSS Media Query gives you a way to apply CSS only when the browser and device environment matches a rule that you specify.Media queries are a key part of responsive web design.

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CSS CODE FOR DIFFERENT DEVICES (BREAKPOINTS)

```css
/* Extra small devices (phones, 600px and down) */
@media only screen and (max-width: 600px) {...}

/* Small devices (portrait tablets and large phones,
600px and up) */
@media only screen and (min-width: 600px) {...}

/* Medium devices (landscape tablets, 768px and up) */
@media only screen and (min-width: 768px) {...}

/* Large devices (laptops/desktops, 992px and up) */
@media only screen and (min-width: 992px) {...}

/* Extra large devices (large laptops and desktops,
1200px and up) */
@media only screen and (min-width: 1200px) {...}
```