Responsive Web Design is easy

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Rule #1 - viewport

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

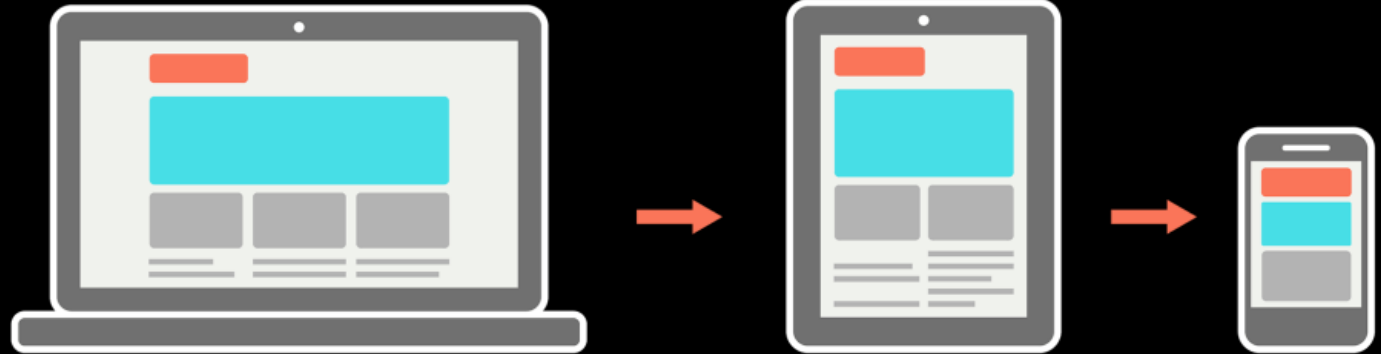Without "viewport" on mobile

With "viewport" on mobile

Using the viewport meta tag to control layout on mobile browsers

Rule #2 - Create Mobile First

Desktop first

```css
/* Example */
/* from 0px until 720px */
@media (max-width: 720px) {
  body {
    background-color: green;
  }
}
```

Mobile first

```css
/* Example */
/* from 420px until next @media */
@media (min-width: 420px) {
  body {
    background-color: green;
  }
}
```
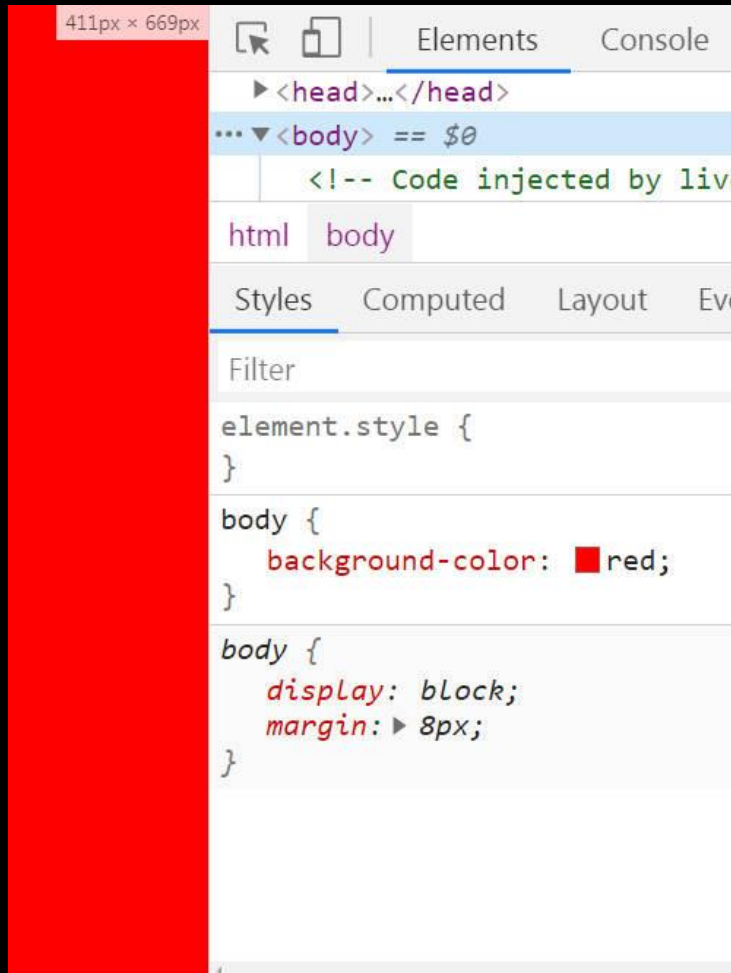
Responsive Web Design

Mobile First Web Design
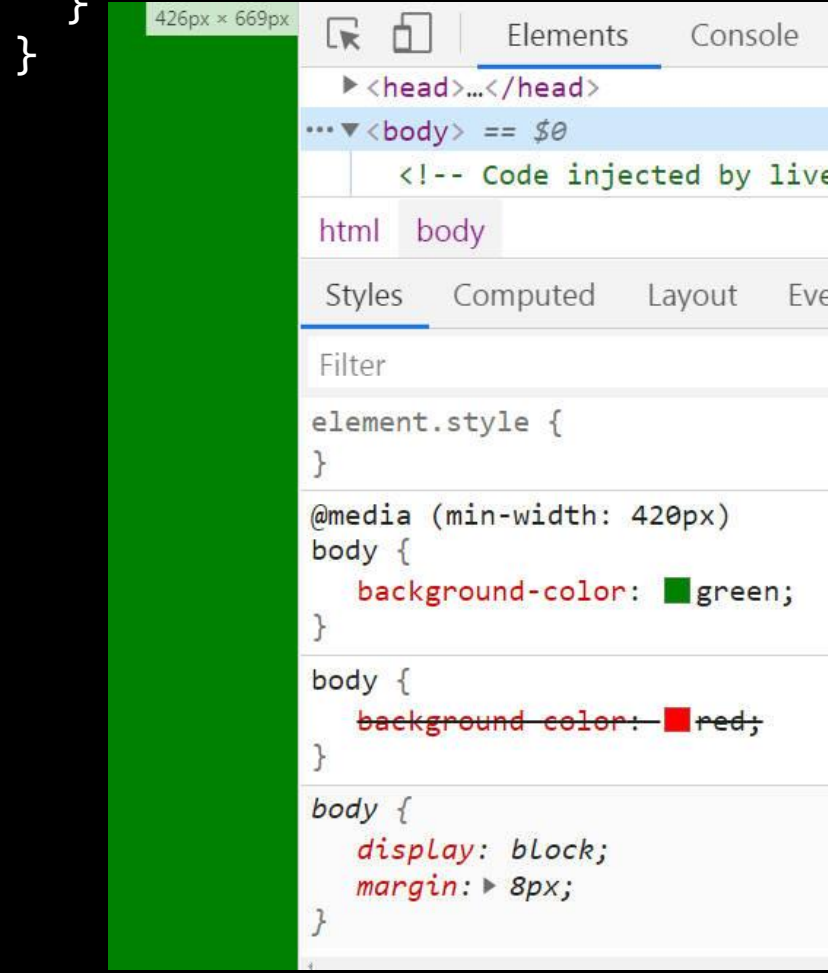
Rule #3 - use @media queries

/* Mobile styles */
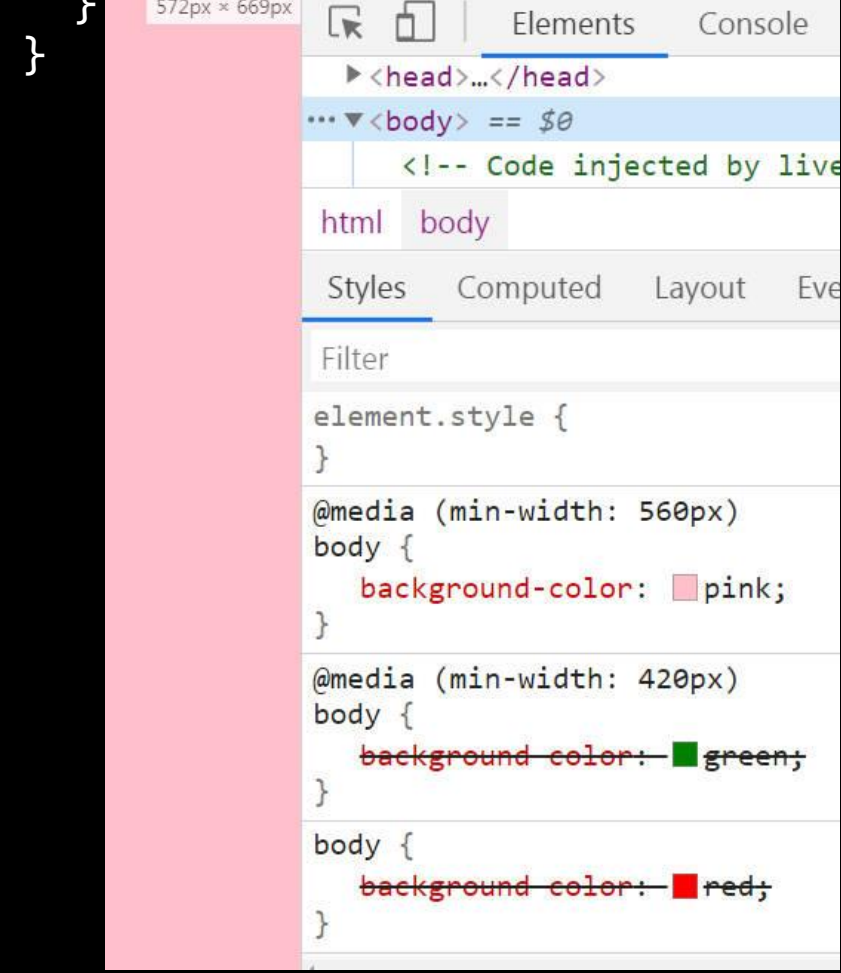
```css
body {
  background-color: red;
}
```

/* Tablet styles */

```css
@media (min-width: 420px) {
  body {
    background-color: green;
  }
}
```
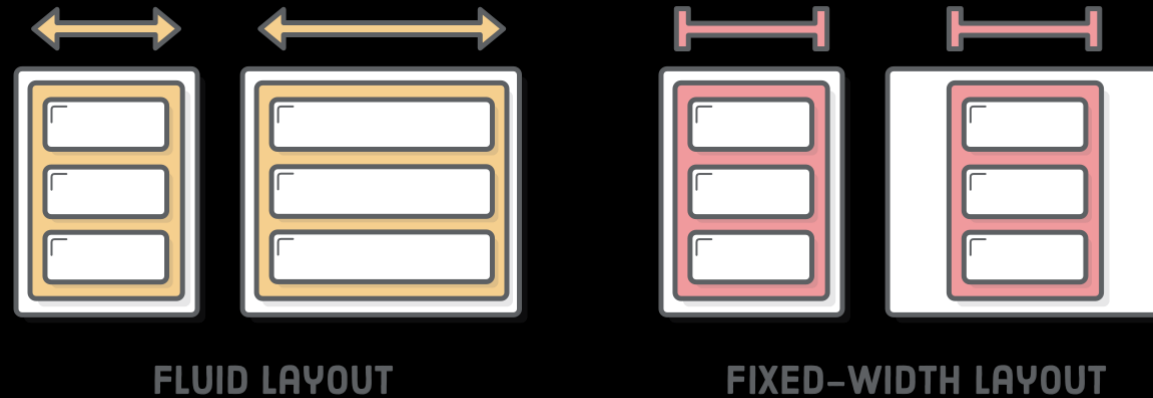
/* Desktop styles */

```css
@media (min-width: 560px) {
  body {
    background-color: pink;
  }
}
```
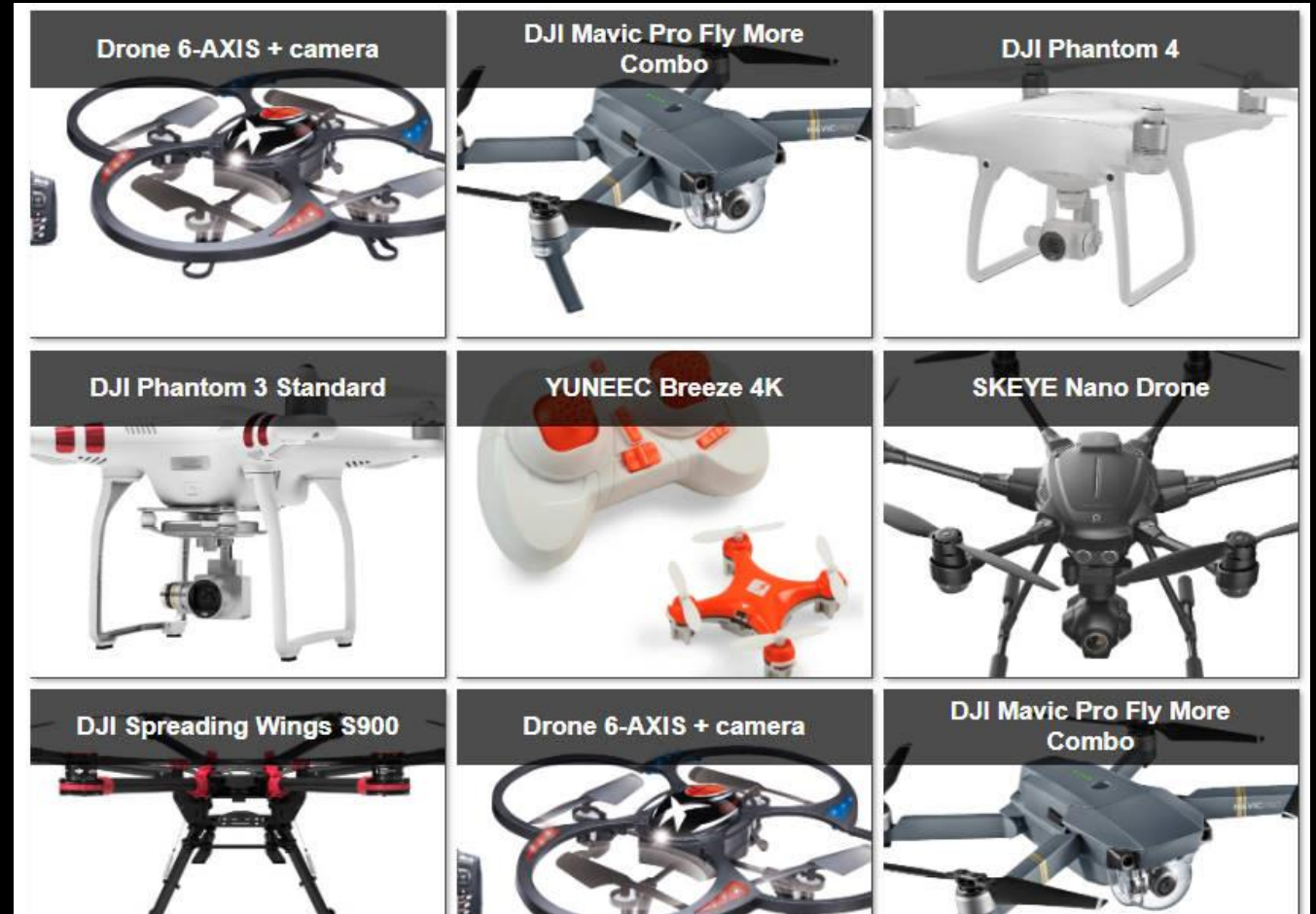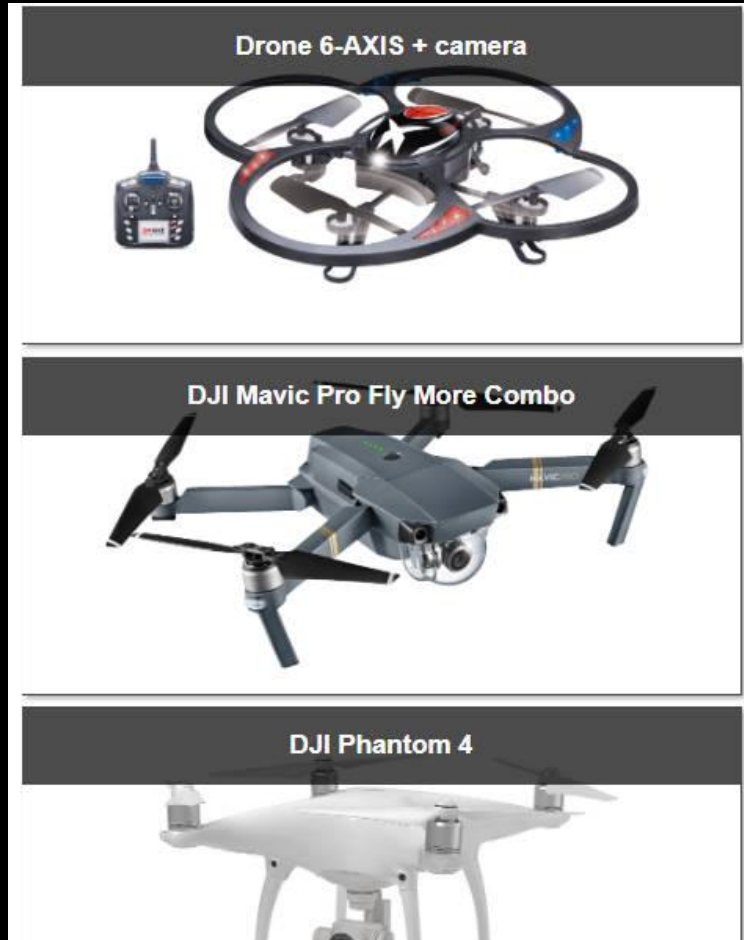
Rule #4 - Responsive layout

FLUID LAYOUT   FIXED-WIDTH LAYOUT

```
.container {              /* Mobile styles */        /* Tablet styles */
  width: 100%;
}                         .container {               @media (min-width: 576px) {
                            max-width: 100%;           .container {
                          }                              max-width: 540px;
                                                       }
                                                     }
```

Rule #5 - CSS Flexbox Layout

```
23
24    <div class="container">
25        <ul class="cards">
26  >        <li class="cards__item">…
32        </li>
33  >        <li class="cards__item">…
39        </li>
40  >        <li class="cards__item">…
46        </li>
47        </ul>
48    </div>
49
```

```css
/* Mobile styles */

.container {
  max-width: 100%;
}
.cards {
  display: flex;
  flex-direction: column;
}
.cards__item {
  width: 100%;
}
```

```css
/* Tablet styles */

@media (min-width: 576px) {
  .container {
    max-width: 540px;
  }
  .cards {
    flex-direction: row;
    flex-wrap: wrap;
  }
  .cards__item {
    width: 50%;
  }
}
```

```css
/* Desktop styles */

@media (min-width: 768px) {
  .container {
    max-width: 720px;
  }
  .cards__item {
    width: 33.33%;
  }
}
```

Rule #5 - box-sizing: border-box

```
*  {
    box-sizing: border-box;
}
```

div.box 300 × 200

300 x 200

OK

Elements   Console   Sources   Network   »   ⚙ ⋮ ✕

▶ `<head>…</head>`
▼ `<body>`
···   `<div class="box"></div>` == $0
     `<!-- Code injected by live-server -->`
   ▶ `<script type="text/javascript">…</script>`

html   body   div.box

Styles   Computed   Layout   Event Listeners   DOM Breakpoints   »

Filter   :hov .cls + ▣

```
element.style {
}
```
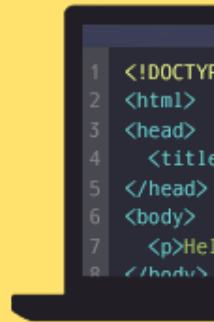
```
.box {          style.css? …766686774:1
    width: 300px;
    height: 200px;
    padding: ▶ 50px;
    border: ▶ 50px solid
         yellowgreen;
    background-color:  tomato;
    box-sizing: border-box;
}
```

margin   –
border   50
padding 50
– 50 50   100 × 0   50 50 –
          50
          50
          –

Rule #5 – responsive images

```css
img {
    max-width: 100%;
}
```