

Using The max-width Property

max-width 100% , 가

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>WidthPercentage And HeightAuto</title>
  <style>
    img {
      max-width: 100%;
      height: auto;
    }
  </style>
</head>
<body>

  
  <p>Resize the browser window to see how the imgae will scale
  when the width is less than 460px.</p>

</body>
</html>
```

Add an Image to The Example Web Page

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Add an Image to The Example Web Page</title>
  <style>
    * {
      box-sizing: border-box;
    }

    img {
      width: 100%;
      height: auto;
    }
  </style>
</head>
<body>
  
</body>
</html>
```

```
.row::after {
  content: "";
  clear: both;
  display: table;
}

[class*="col-"] {
  float: left;
  padding: 15px;
  width: 100%;
}

@media only screen and (min-width: 600px) {
  .col-s-1 {width: 8.33%;}
  .col-s-2 {width: 16.66%;}
  .col-s-3 {width: 25%;}
  .col-s-4 {width: 33.33%;}
  .col-s-5 {width: 41.66%;}
  .col-s-6 {width: 50%;}
  .col-s-7 {width: 58.33%;}
  .col-s-8 {width: 66.66%;}
  .col-s-9 {width: 75%;}
  .col-s-10 {width: 83.33%;}
  .col-s-11 {width: 91.66%;}
  .col-s-12 {width: 100%;}
}

@media only screen and (min-width: 768px) {
  .col-1 {width: 8.33%;}
  .col-2 {width: 16.66%;}
  .col-3 {width: 25%;}
  .col-4 {width: 33.33%;}
  .col-5 {width: 41.66%;}
  .col-6 {width: 50%;}
  .col-7 {width: 58.33%;}
  .col-8 {width: 66.66%;}
  .col-9 {width: 75%;}
  .col-10 {width: 83.33%;}
  .col-11 {width: 91.66%;}
  .col-12 {width: 100%;}
}

html {
  font-family: "Lucida Sans", sans-serif;
}

.header {
  background-color: #9933cc;
  color: #ffffff;
  padding: 15px;
}
```

```
    }

    .menu ul {
        list-style-type: none;
        margin: 0;
        padding: 0;
    }

    .menu li {
        padding: 8px;
        margin-bottom: 7px;
        background-color: #33b5e5;
        color: #ffffff;
        box-shadow: 1px 3px rgba(0, 0, 0, 0.12) 0 1px 2px rgba(0, 0, 0,
0.24);
    }

    .menu li:hover {
        background-color: #0099cc;
    }

    .aside {
        background-color: #33b5e5;
        padding: 15px;
        color: #ffffff;
        text-align: center;
        font-size: 14px;
        box-shadow: 1px 3px rgba(0, 0, 0, 0.12) 0 1px 2px rgba(0, 0, 0,
0.24);
    }

    .footer {
        background-color: #0099cc;
        color: #ffffff;
        text-align: center;
        font-size: 12px;
        padding: 15px;
    }
}
</style>
</head>
<body>
    <div class="header">
        <h1>Chania</h1>
    </div>

    <div class="row">
        <div class="col-3 col-s-3 menu">
            <ul>
                <li>The Flight</li>
            </ul>
        </div>
    </div>
</body>
</html>
```

```

        <li>The City</li>
        <li>The Island</li>
        <li>the Food</li>
    </ul>
</div>

<div class="col-6 col-s-9">
    <h1>The City</h1>
    <p>Chania is the capital of the Chania region on the island of
Crete.
    The city can be divided in two parts, the old town and the modern
city.</p>
    
</div>

<div class="col-3 col-s-12">
    <div class="aside">
        <h2>What?</h2>
        <p>Chania is a city on the island of Crete.</p>
        <h2>Where?</h2>
        <p>Crete is a Greek island in the Mediterranean Sea.</p>
        <h2>How?</h2>
        <p>You can reach Chania airport from all over Europe.</p>
    </div>
</div>

<div class="footer">
    <p>Resize the browser window to see how the content respond to the
resizing.</p>
</div>
</body>
</html>

```

Background Images

(resizing)

(scaling)

가

1. background-size

“contain”

가

(aspect ratio:

)

```

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">

```

```
<title>Background Images</title>
<style>
  div {
    border: 2px solid darkblue;
    width: 100%;
    height: 400px;
    background-image: url(img_flowers.jpg);
    background-repeat: no-repeat;
    background-size: contain;
  }
</style>
</head>
<body>

  <p>Resize the browser window to see the effect.</p>

  <div></div>
</body>
</html>
```

2. background-size “ 100% 100% “ ,
가 .

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Background Images</title>
  <style>
    div {
      width: 100%;
      height: 400px;
      background-image: url(img_flowers.jpg);
      background-size: 100% 100%;
      border: 2px solid darkblue;
    }
  </style>
</head>
<body>

  <p>Resize the browser window to see the effect.</p>

  <div></div>
</body>
</html>
```

3. background-size

“cover”

가

가

“cover”

,

가

```

<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Background Images</title>
  <style>
    div {
      width: 100%;
      height: 400px;
      background-image: url(img_flowers.jpg);
      background-size: cover;
      border: 2px solid darkblue;
    }
  </style>
</head>
<body>

  <p>Resize the browser window to see the effect.</p>

  <div></div>
</body>
</html>

```

Different Images for Different Devices

가 ?

```

<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Document</title>
  <style>
    /* For width smaller than 400px: */
    /*      399px                */
    body {
      background-repeat: no-repeat;
    }
  </style>

```

```
        background-image: url(./img_smallflower.jpg);
    }

    /* For width 400px and larger: */
    /* 400px */
    @media only screen and (min-width:400px) {
        body {
            background-image: url(./img_flowers.jpg);
        }
    }
</style>
</head>
<body>

    <p style="margin-top: 360px;">
        Resize the browser width and the background image will change at
400px.
    </p>
</body>
</html>
```

min-device-width min-width ,
가 .

```
<style>
    /* For width smaller than 400px: */
    /* 399px */
    body {
        background-repeat:no-repeat;
        background-image: url(./img_smallflower.jpg);
    }

    /* For width 400px and larger: */
    /* 400px */
    @media only screen and (min-device-width:400px) {
        body {
            background-image: url(./img_flowers.jpg);
        }
    }
</style>
```

The HTML <picture> Element

HTML <picture>

<picture> 가

<picture> <video> <audio> 가

```

<body>
  <picture>
    <source srcset="./img_smallflower.jpg" media="(max-width: 400px)">
    <source srcset="./img_flowers.jpg">
    
    <p>
      Resize the browser width and the background image will change at
      400px
    </p>
  </picture>
</body>

```

srcset


media , CSS @media rule

<picture>

., Responsive, Web, Design, -, Images

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