



WELCOME

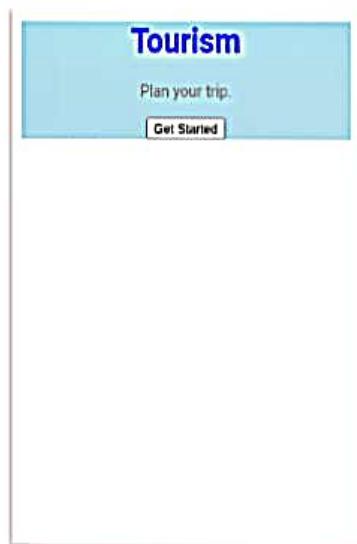


Introduction to CSS Box Model

Recap

Introduction to CSS | Part 3

- ✓ Apply All CSS Properties At Once
 - text-align
 - color
 - background-color
- ✓ Save & Publish your own website



Recap

Introduction to CSS | Part 3

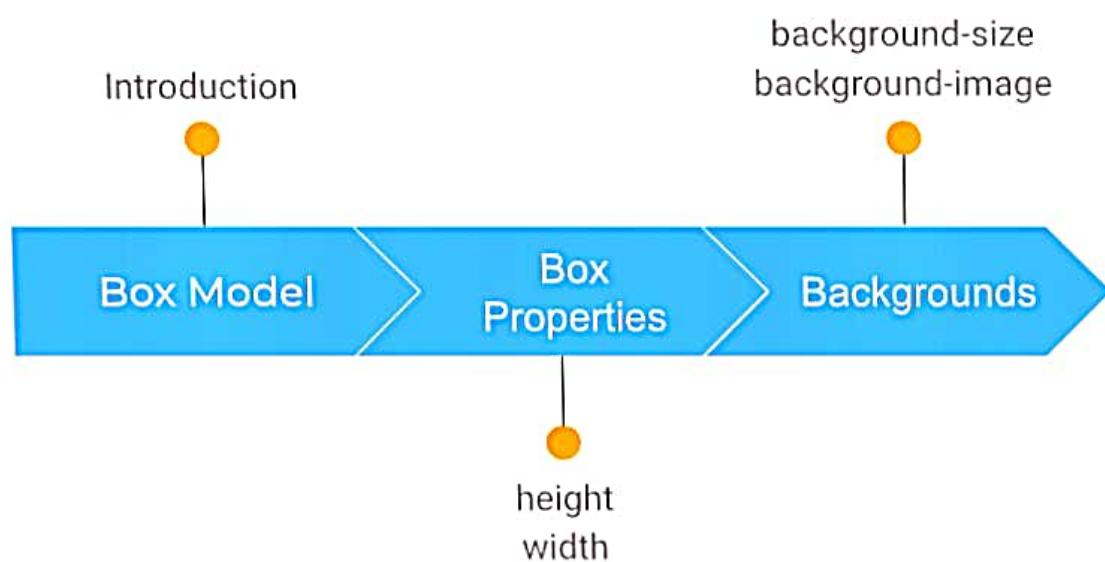
CSS

```
.main-heading {  
    color: blue;  
    font-family: "Roboto";  
    font-size: 36px;  
    font-style: italic;  
    font-weight: bold;  
    text-decoration: underline;  
}
```

TOURISM

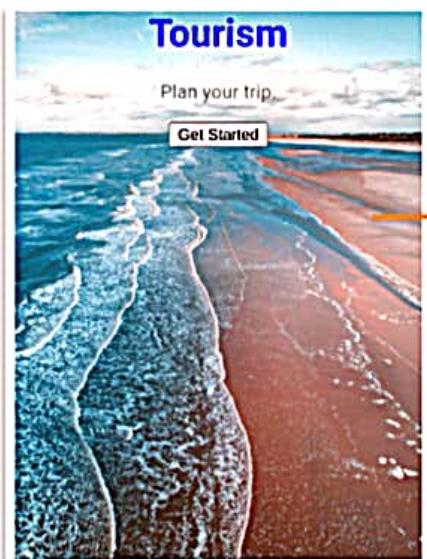
Agenda

Introduction to CSS Box Model



Today's Agenda

What we are going to achieve



Background Image

Introduction to CSS Box Model



Introduction

CSS Box model

Every HTML element on a web page is a rectangular box



Introduction

CSS Box model

If we want curved corners,
we use CSS



Tech Foundations

- Introduction to C programming
 - Data Structures in C
 - Python & OOP Concepts
 - Working with Command Line
 - Fundamentals of Computer Science
- and more...

[View Curriculum >](#)

NXT
WAVE

Desktop View - Code Playground

Inspect

The screenshot shows the NXT WAVE Code Playground interface. At the top, there's a navigation bar with links for Home, Task Flow 4.0, IDM 4.0, Upender, and a user icon. Below the navigation is a toolbar with buttons for HTML, CSS, JavaScript, Reset, and Inspect (which is highlighted with a yellow border). The main area has tabs for HTML, CSS, and Web. On the left, there's a code editor with the following HTML code:

```
1 <!DOCTYPE html>
2 <html>
3   <head> </head>
4   <body>
5     <div class="card">
6       <h1 class="main-heading">Tourism</h1>
7       <p class="paragraph">
8         Plan your trip.
9       </p>
10      <button>Get Started </button>
11    </div>
12  </body>
13 </html>
```

Below the code editor are buttons for DOWNLOAD, SAVE, and a dropdown menu set to Web. At the bottom is a CONSOLE tab.

The right side of the interface displays a preview of a web page titled "Tourism" with the subtext "Plan your trip." and a "Get Started" button.

Desktop View - Code Playground

Inspect

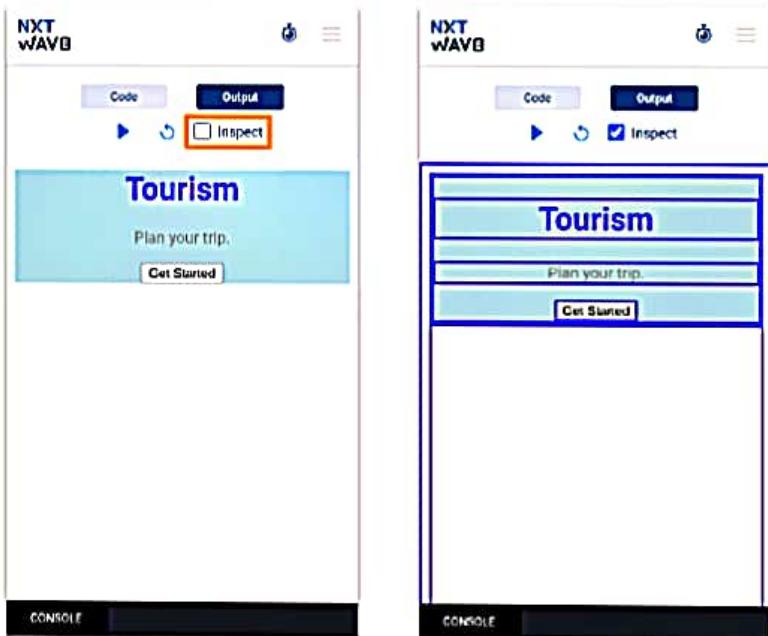
The screenshot shows the NXT WAVE Code Playground interface. At the top, there's a navigation bar with links for Home, Task Flow 4.0, IDM 4.0, Upender, and a user icon. Below the navigation is a toolbar with buttons for HTML, CSS, JavaScript, Reset, and Inspect (which is highlighted with a yellow box). On the left, a code editor displays the following HTML code:

```
1 <!DOCTYPE html>
2 <html>
3   <head> </head>
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5     <div class="card">
6       <h1 class="main-heading">Tourism</h1>
7       <p class="paragraph">
8         Plan your trip.
9       </p>
10      <button> Get Started </button>
11    </div>
12  </body>
13 </html>
```

Below the code editor are buttons for DOWNLOAD, SAVE, and Web, followed by a dropdown menu. To the right of the code editor is a preview window showing a card with the word "Tourism" at the top, a paragraph below it, and a "Get Started" button. At the bottom of the preview window is a "CONSOLE" tab.

Mobile View - Code Playground

Inspect



NXT
WAVE

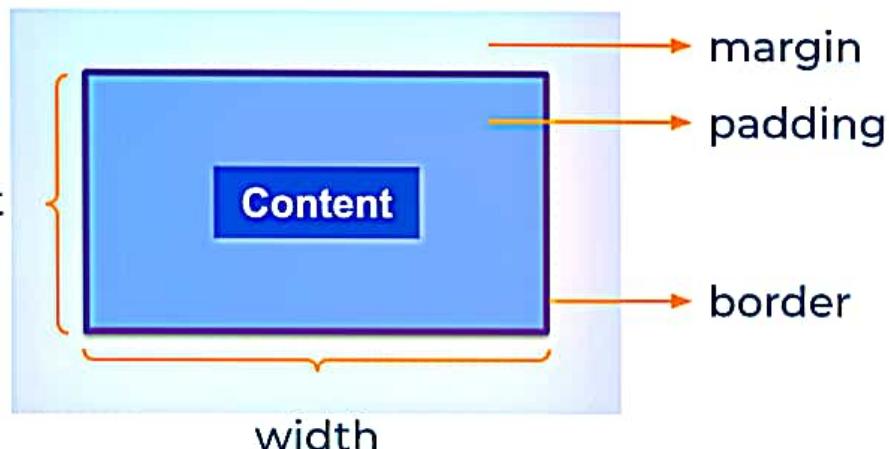
CSS Box Model

Box Properties

Each rectangular box has different properties:

- height
- width
- margin
- border
- padding

height



width

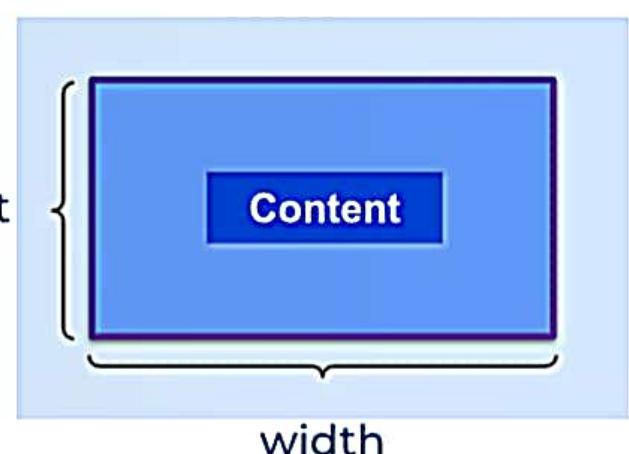
CSS Box Model

Height & Width Properties

Let's see

- **height**
- **width**

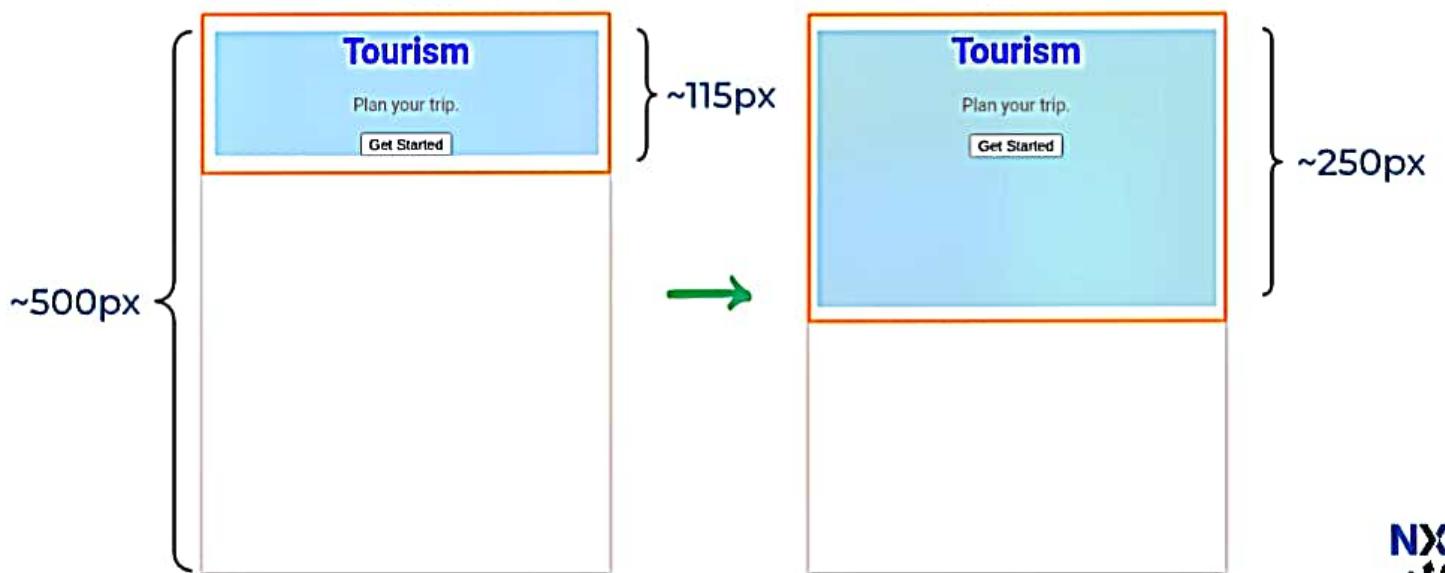
height



width

CSS Box Model

Applying Height to Container Element (div)



CSS Ruleset

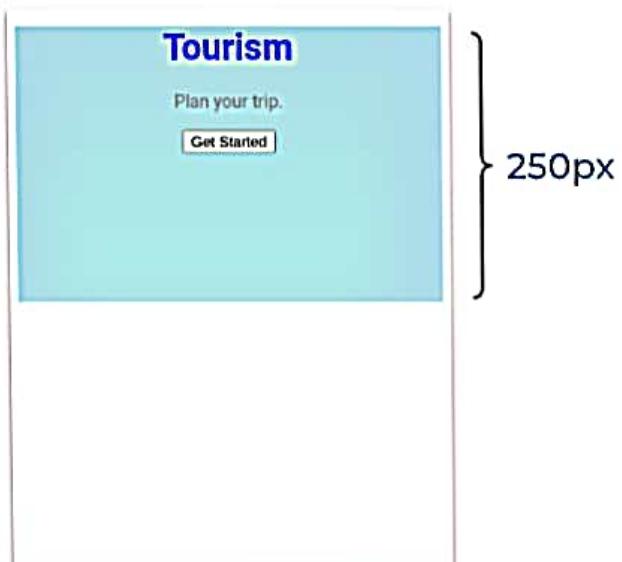
Height

CSS

```
.card {  
    background-color: lightblue;  
    text-align: center;  
    height: 250px;  
}
```

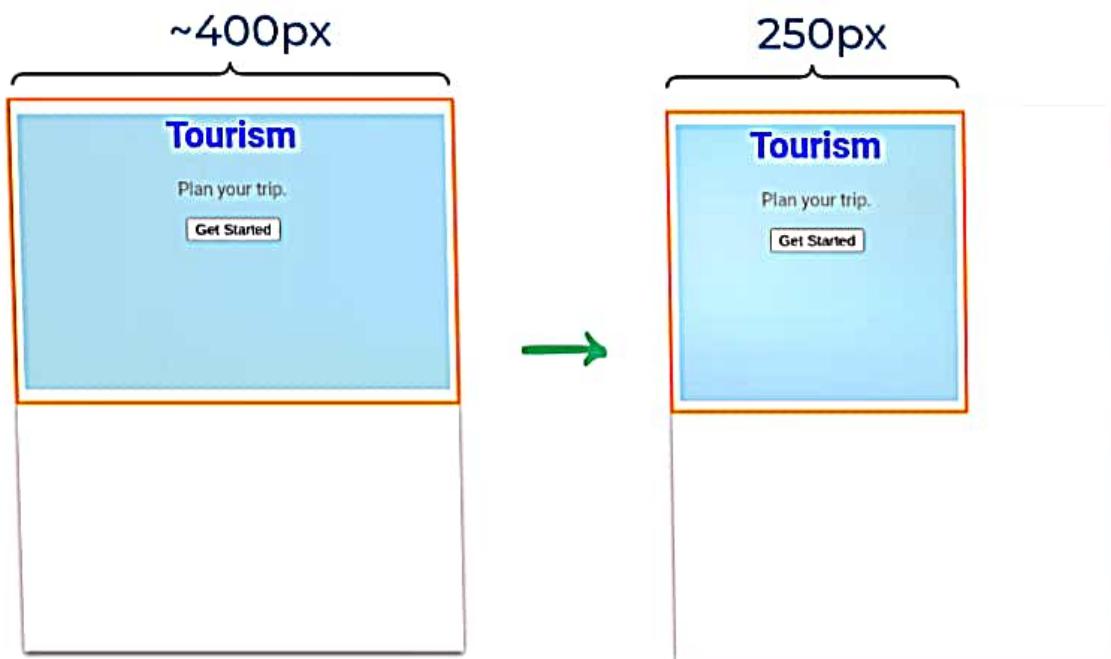
Applying Height to Container Element (div)

Output of the Code Snippet



CSS Box Model

Applying Width to Container Element (div)



CSS Ruleset

Width

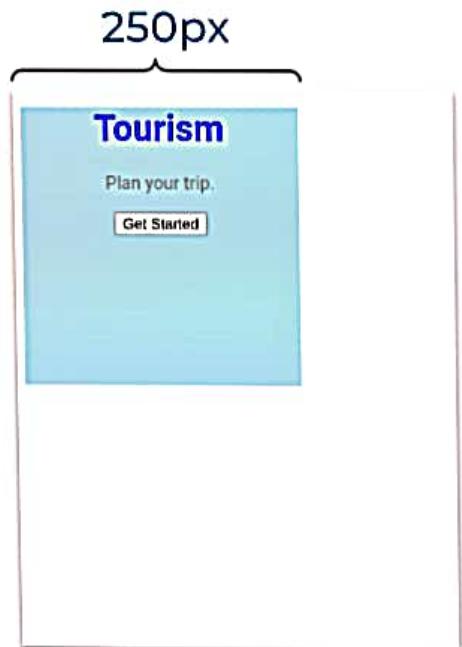
CSS

```
.card {  
    background-color: lightblue;  
    text-align: center;  
    height: 250px;  
    width: 250px;  
}
```

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Applying Width to Container Element (div)

Output of the Code Snippet



Background Image

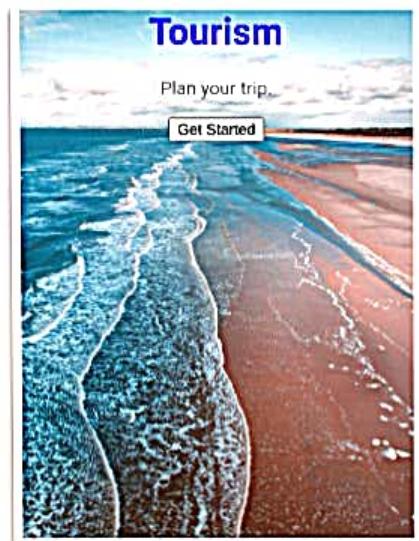


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Styling

Background Image

Let's add
Background Image
instead of
Background Color



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Styling

Removing Background Color of Container

```
.card {  
background-color: lightblue;  
text-align: center;  
height: 250px;  
width: 250px;  
}
```

CSS



```
.card {  
text-align: center;  
height: 250px;  
width: 250px;  
}
```

CSS

CSS Syntax

Adding Background Image

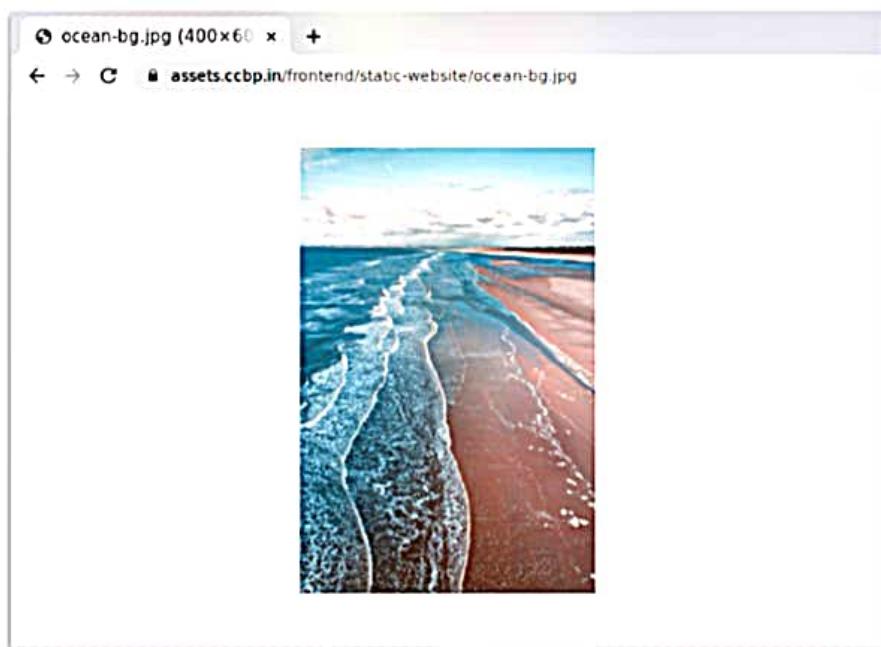
```
.card {  
    background-image: url("IMAGE URL");  
    ...  
}
```

PROPERTY

VALUE

Browser

Getting Image URL



CSS Syntax

Adding Background Image URL

```
.card {  
    background-image: url("https://assets.ccbp.in/frontend/static-website/ocean-bg.jpg");  
    ...  
}
```

The diagram illustrates the CSS syntax for adding a background image. It shows a code snippet within a dashed box:
.card {
 background-image: url("https://assets.ccbp.in/frontend/static-website/ocean-bg.jpg");
 ...
}
A red arrow points from the word "background-image" to a red box labeled "PROPERTY". A blue arrow points from the URL value "url("https://assets.ccbp.in/frontend/static-website/ocean-bg.jpg")" to a blue box labeled "VALUE".

CSS Ruleset

Background Image

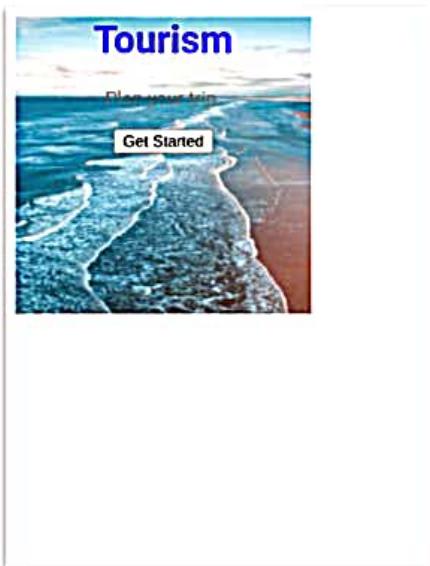
CSS

```
.card {  
background-image: url("https://assets.ccbp.in/frontend/static-website/ocean-bg.jpg");  
text-align: center;  
height: 250px;  
width: 250px;  
}
```

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Background Image

Output of the Code Snippet

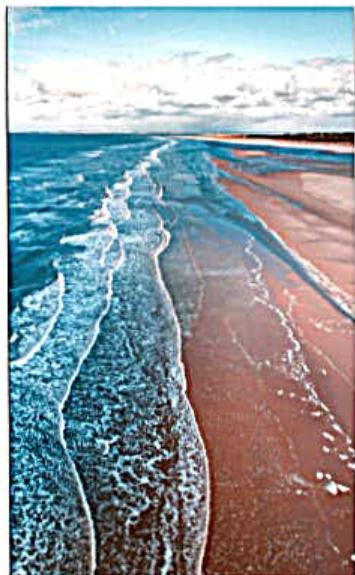


How to make the background image
fill the complete height and width
of the screen?



Backgrounds

Devices with Various Screen Dimensions



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Backgrounds

Viewport

The browser's viewport is the area of the window in which web content can be seen.



Backgrounds

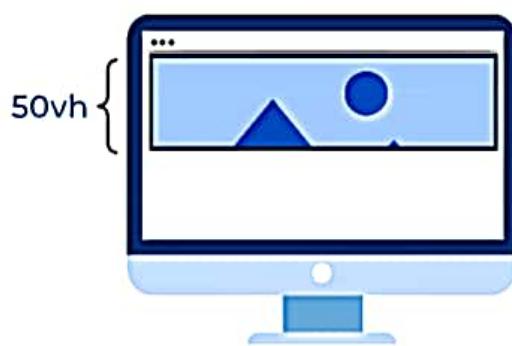
Viewport Height

Viewport Height is based on the height of the user's visible area of a web page (viewport).



Backgrounds

Viewport Height (vh)



50vh = 50% of the viewport height

100vh = 100% of the viewport height



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Backgrounds

Viewport Width (vw)



50vw = 50% of the viewport width

100vw = 100% of the viewport width



Backgrounds

Applying Viewport Height (100vh)

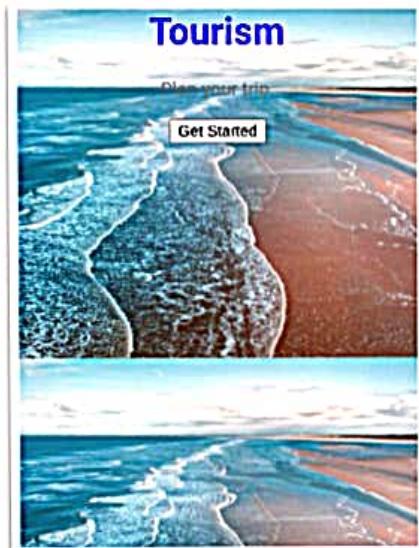
CSS

```
.card {  
background-image: url("https://assets.ccbp.in/frontend/static-website/ocean-bg.jpg");  
text-align: center;  
height: 100vh;  
width: 250px;  
}
```

Backgrounds

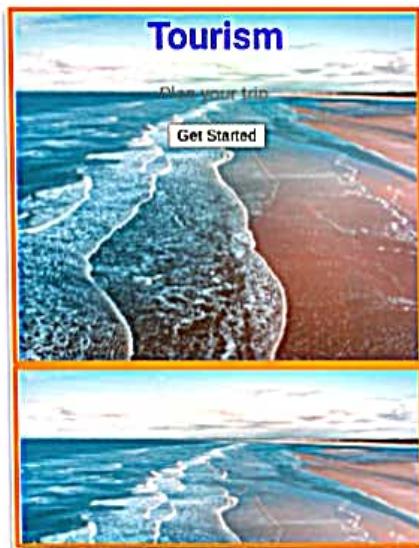
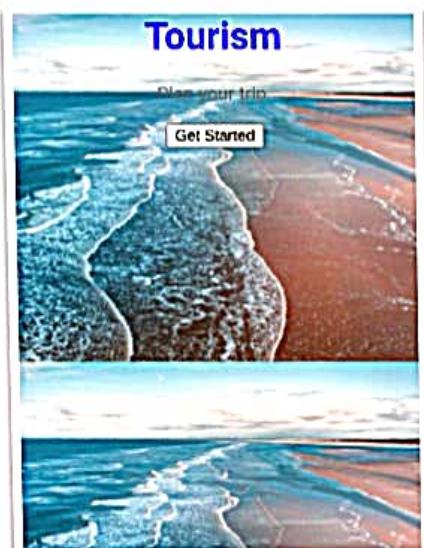
Repeating Vertically

Image is small
So, background image
is repeating vertically



Backgrounds

Repeating Vertically



} Vertically
repeating

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Backgrounds

Repeating Horizontally

In some devices
background image may
repeat horizontally



Horizontally repeating

Backgrounds

Repeating Horizontally

In some devices
background image may
repeat horizontally



Horizontally repeating

Backgrounds

How to address these issues?



CSS Syntax

Background Size

```
.card {  
    background-size: cover;  
    ...  
}
```

PROPERTY

VALUE

Backgrounds

Applying Background Size

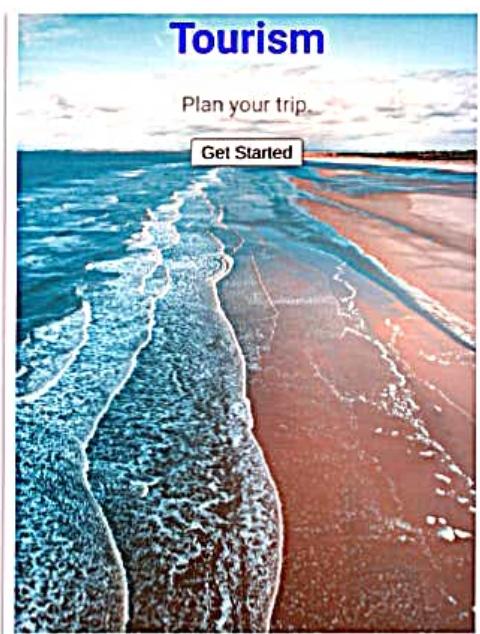
CSS

```
.card {  
background-image: url("https://assets.ccbp.in/frontend/static-website/ocean-bg.jpg");  
text-align: center;  
height: 100vh;  
background-size: cover;  
}
```



Backgrounds

Applying Background Size



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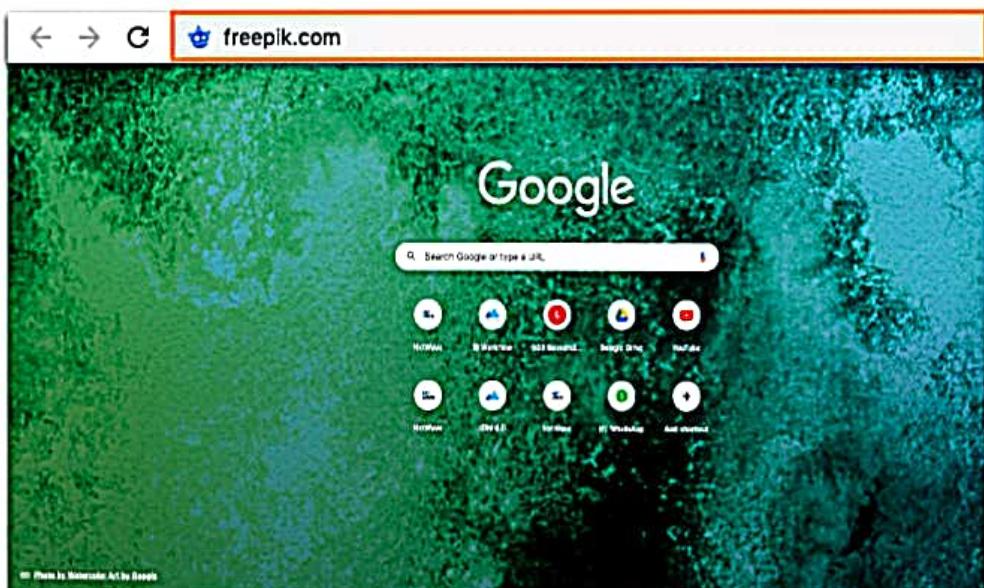
How to Get Image URL from the Internet?



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Getting URL of an Image

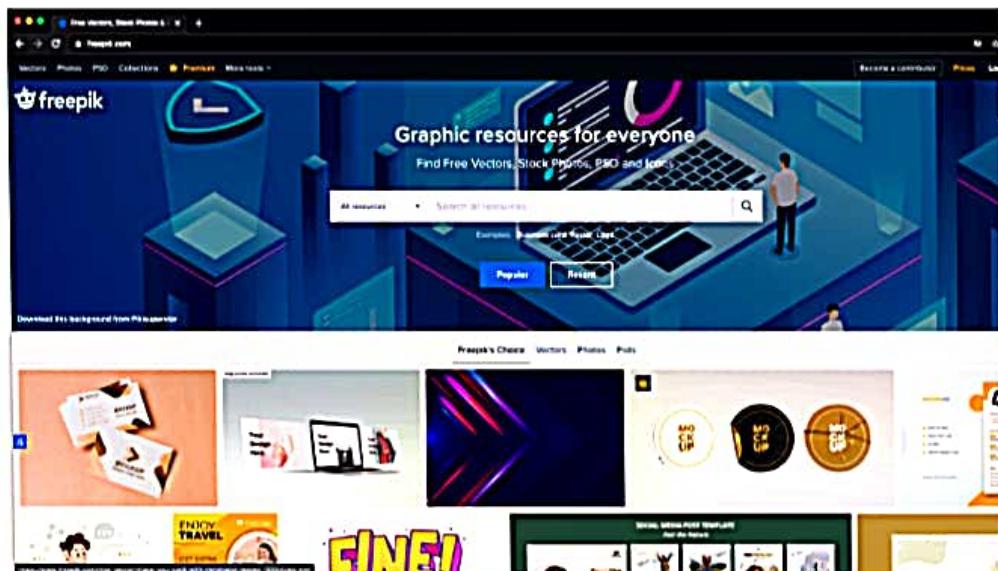
Open freepik.com



NXT
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Desktop View

Freepik.com



NXT
WAVE

Mobile View

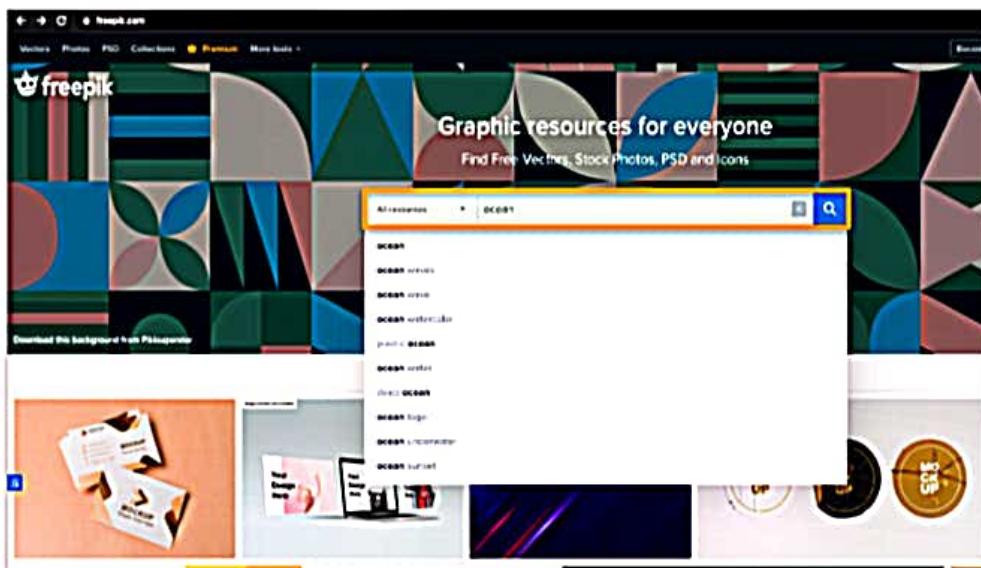
Freepik.com



NXT
WAVE

Desktop View

Search for Image



NXT
WAVE

Mobile View

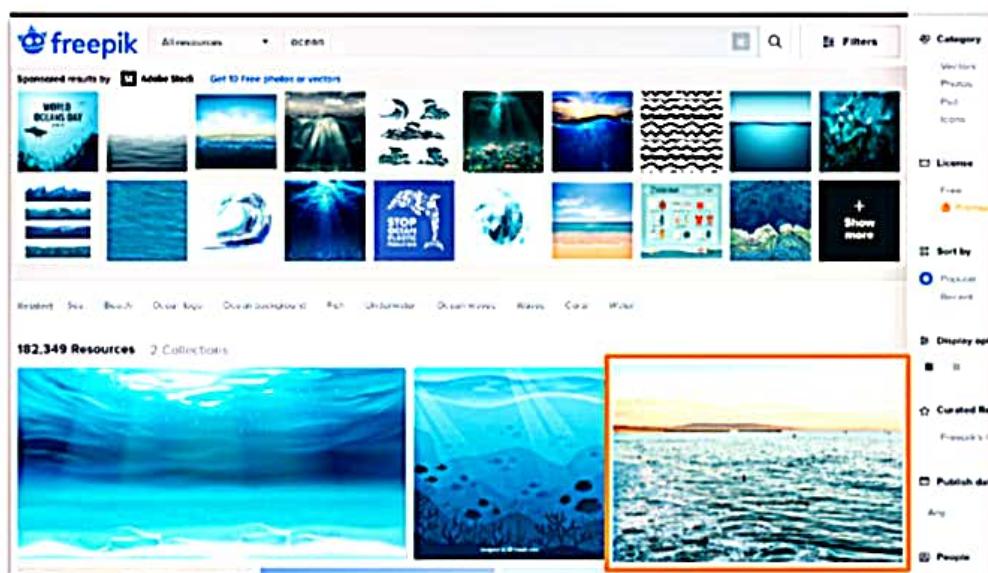
Search for Image



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WAVB

Desktop View

Choose an Image



NXT
WAVB

Mobile View

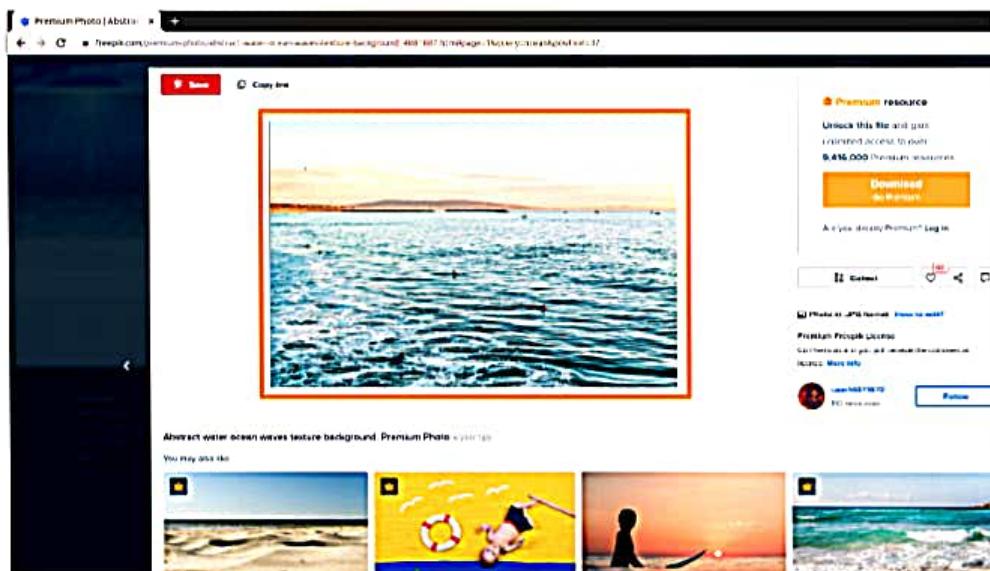
Choose an Image



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WAVB

Desktop View

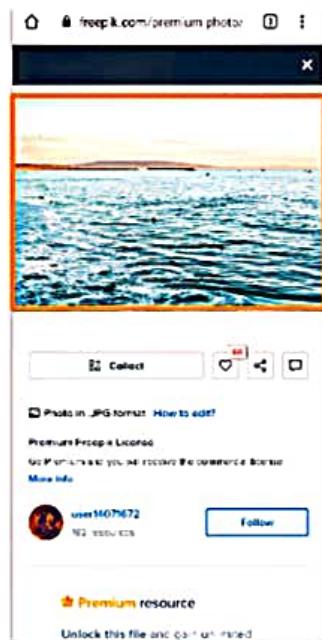
Right Click an Image



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Mobile View

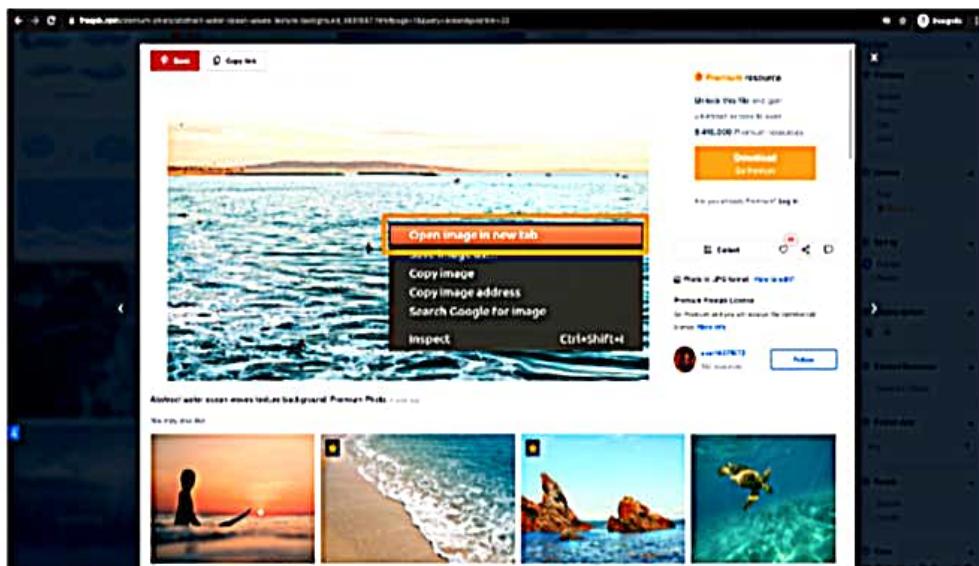
Long Press on the Image



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Desktop View

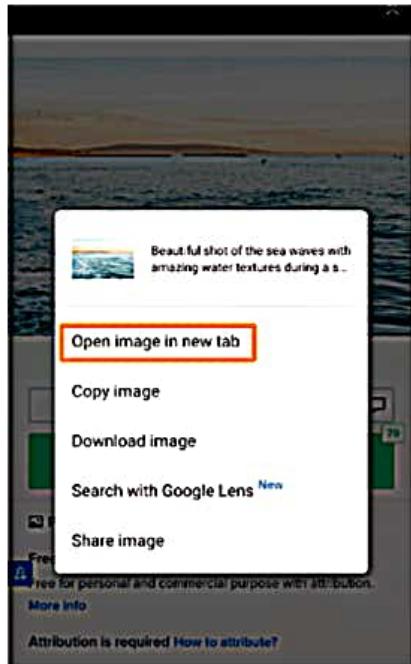
Select Open Image in New Tab Option



NXT
WAVE

Mobile View

Select Open Image in New Tab Option



Desktop View

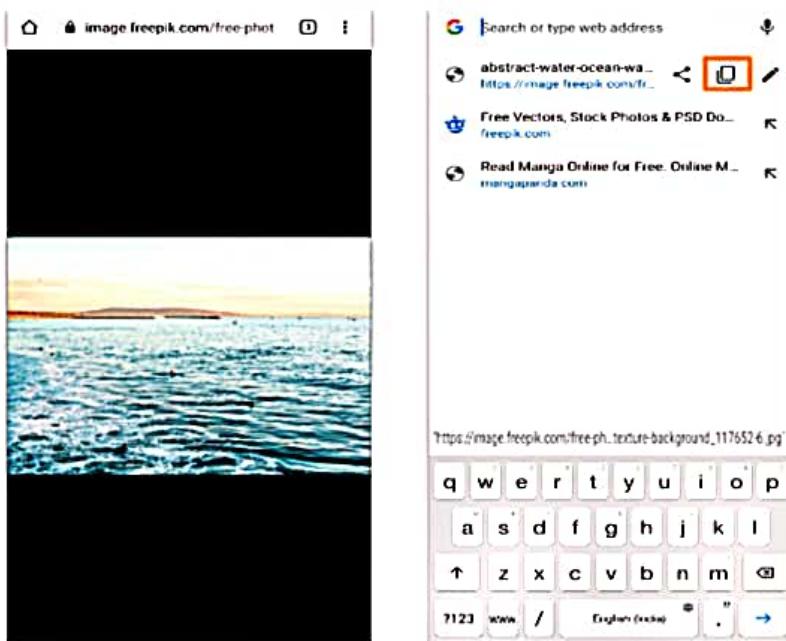
Copy your Image URL



NXT
WAVB

Mobile View

Copy your Image URL



NXT
WAVE

Example

Adding Background Image

CSS

```
.card {  
background-image: url("https://image.freepik.com/free-photo/abstract-water-ocean-waves-texture-background_117652-6.jpg");  
text-align: center;  
height: 100vh;  
background-size: cover;  
}
```

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Example

Output of the Code Snippet



NXT
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Introduction to CSS Box Model

Key Takeaways

- ✓ Introduction to Box Model
- ✓ Box Properties
 - height
 - width



NXT
WAVE

Introduction to CSS Box Model

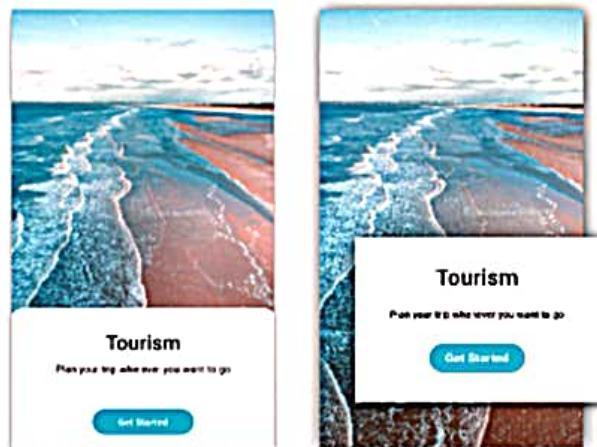
Key Takeaways

- ✓ Backgrounds
 - background-image
 - background-size
- ✓ Viewport
 - Viewport Height(vh)
 - Viewport Width(vw)



Next Session

CSS Box Model (Continued ...)



Feedback



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THANK YOU
