



**NXT**  
**WAVE**

**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

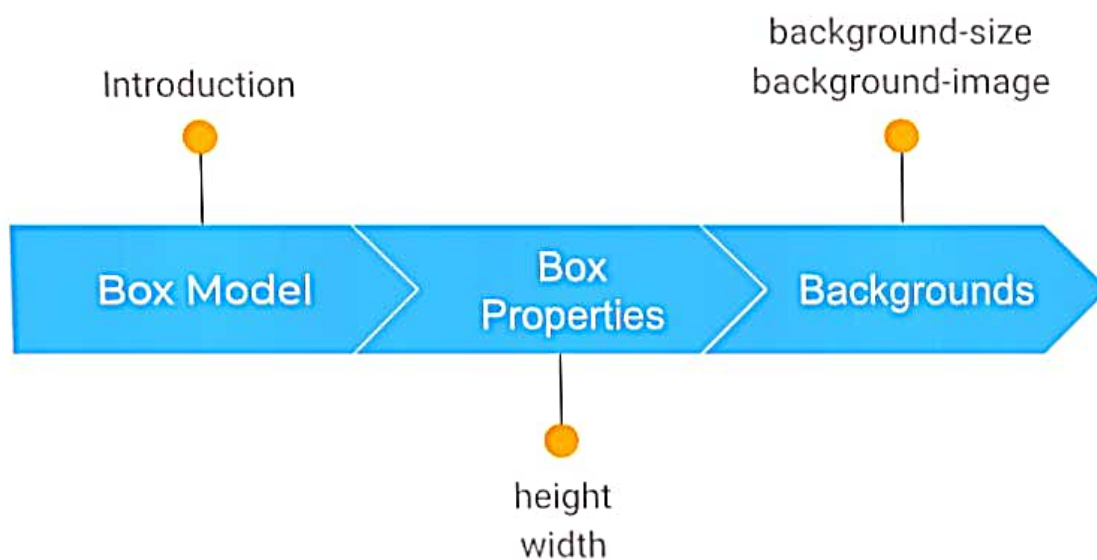
CSS

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

**TOURISM**

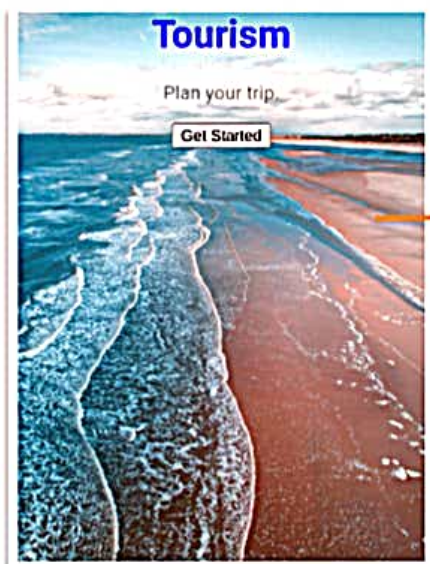
## Agenda

# 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**

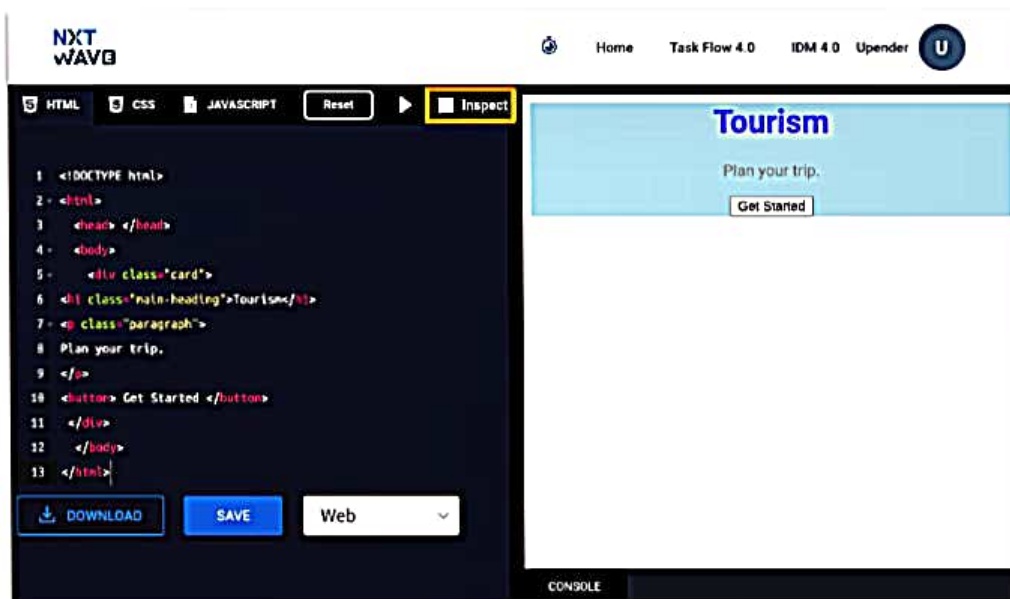
- Introduction to C programming
- Data Structures in C
- Python & OOP Concepts
- Working with Command Line
- Fundamentals of Computer Science

and more...

[View Curriculum >](#)

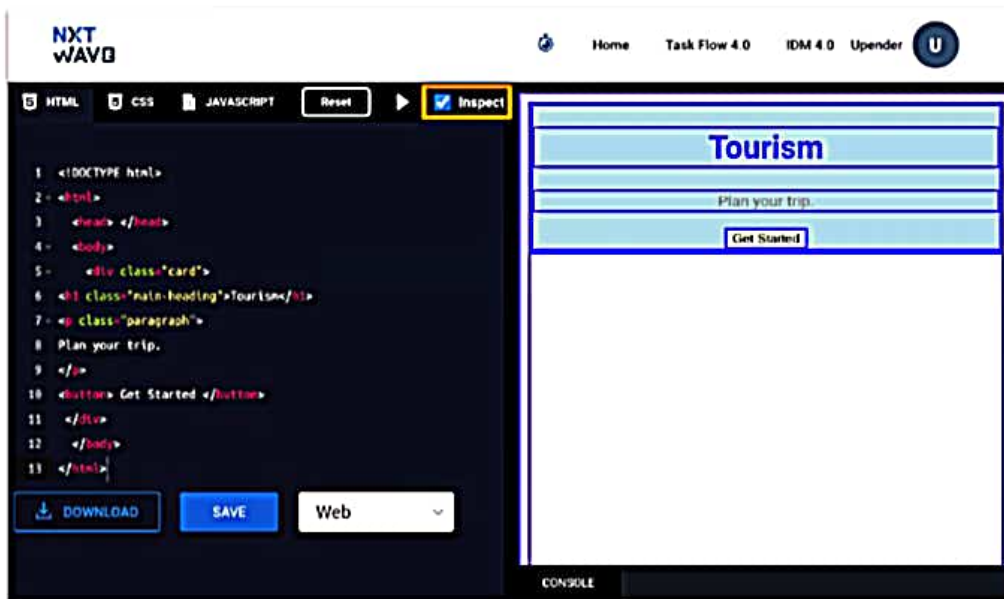
Desktop View - Code Playground

## Inspect

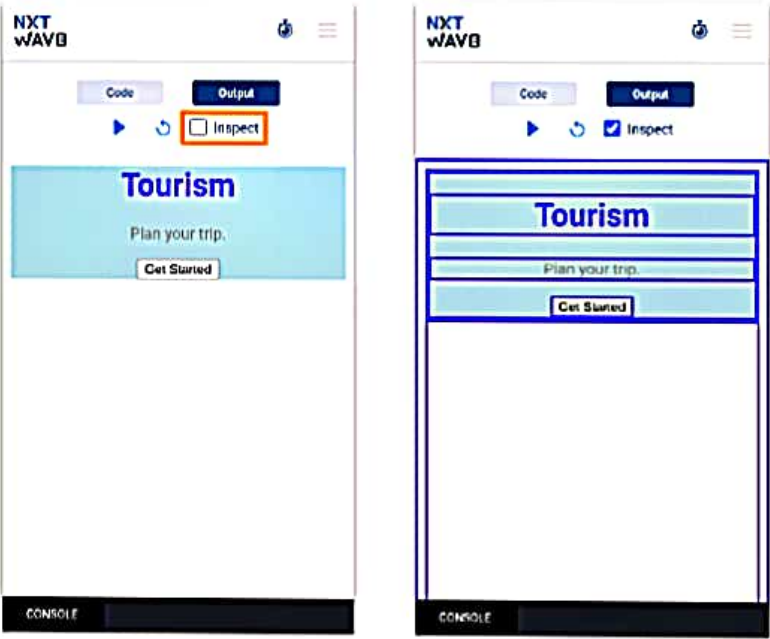


Desktop View - Code Playground

## Inspect



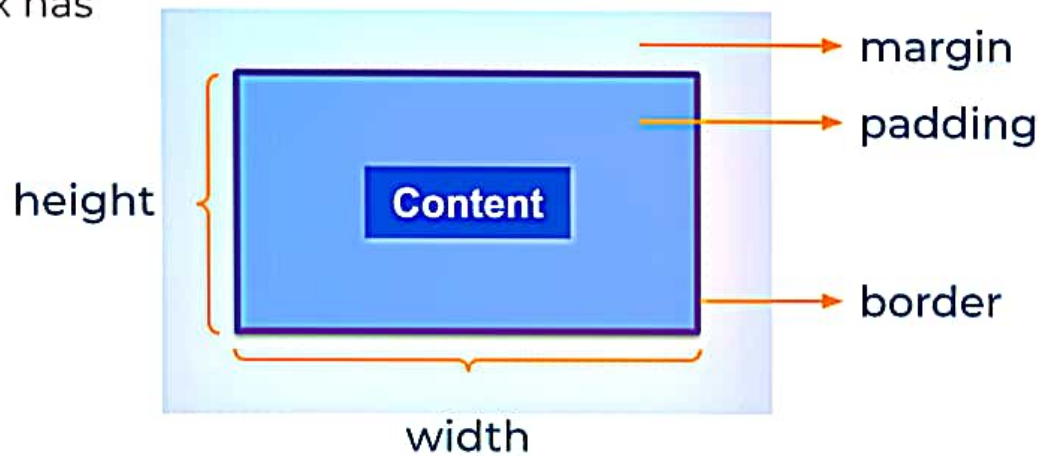
# Inspect



## Box Properties

Each rectangular box has different properties:

- height
- width
- margin
- border
- padding

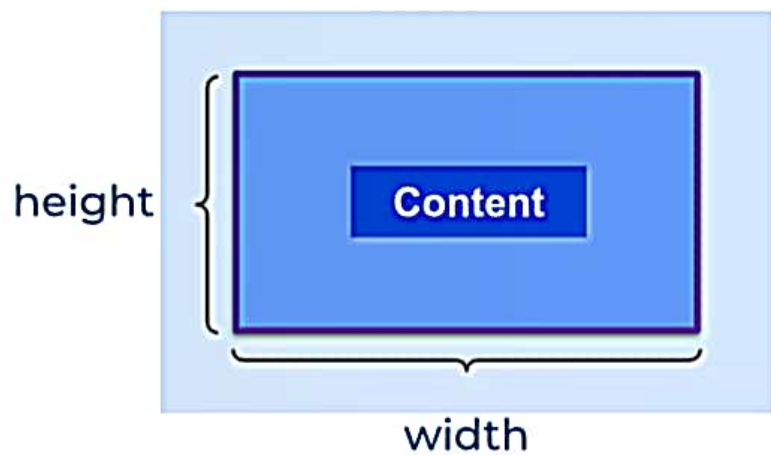


CSS Box Model

## Height & Width Properties

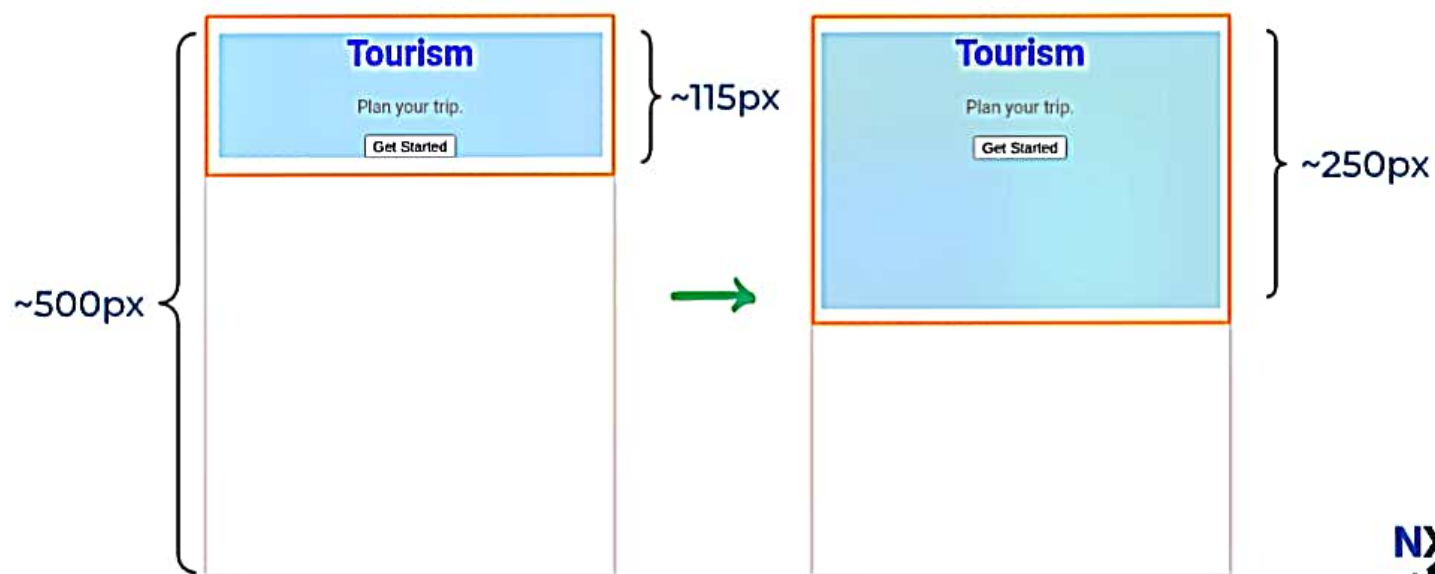
Let's see

- height
- width



## CSS Box Model

### Applying Height to Container Element (div)



CSS Ruleset

## Height

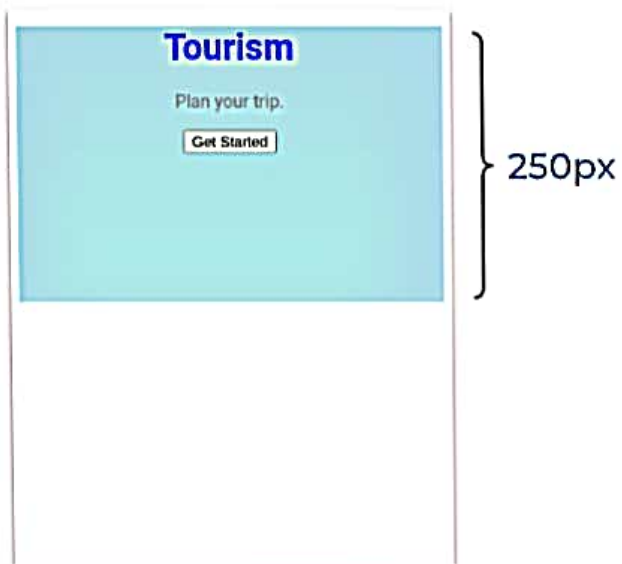
CSS

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



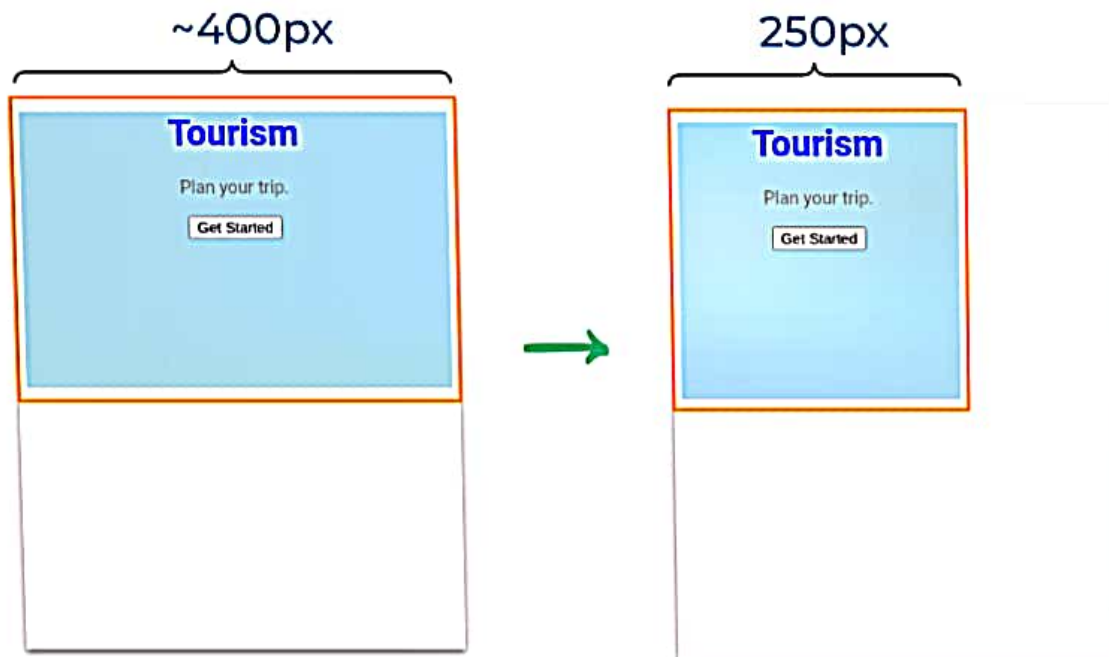
Applying Height to Container Element (div)

## Output of the Code Snippet



## CSS Box Model

### Applying Width to Container Element (div)



CSS Ruleset

## Width

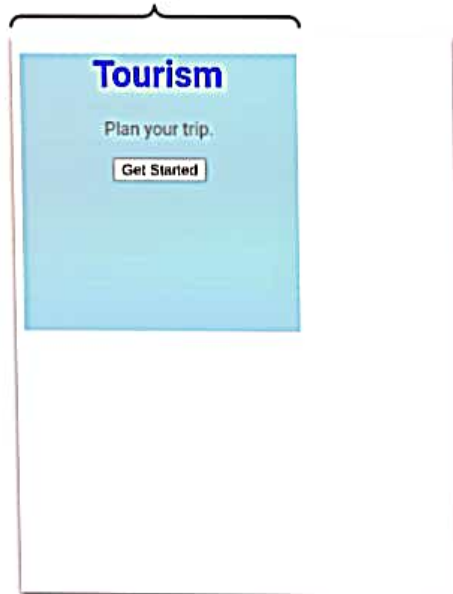
CSS

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

Applying Width to Container Element (div)

## Output of the Code Snippet

250px



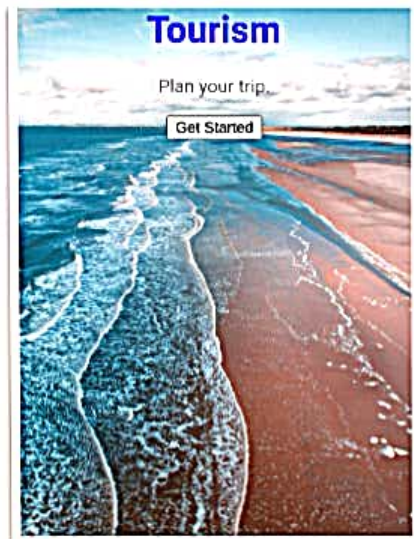
Background Image



Styling

## Background Image

Let's add  
Background Image  
instead of  
Background Color



## Removing Background Color of Container

CSS

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



CSS

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

## Adding Background Image

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

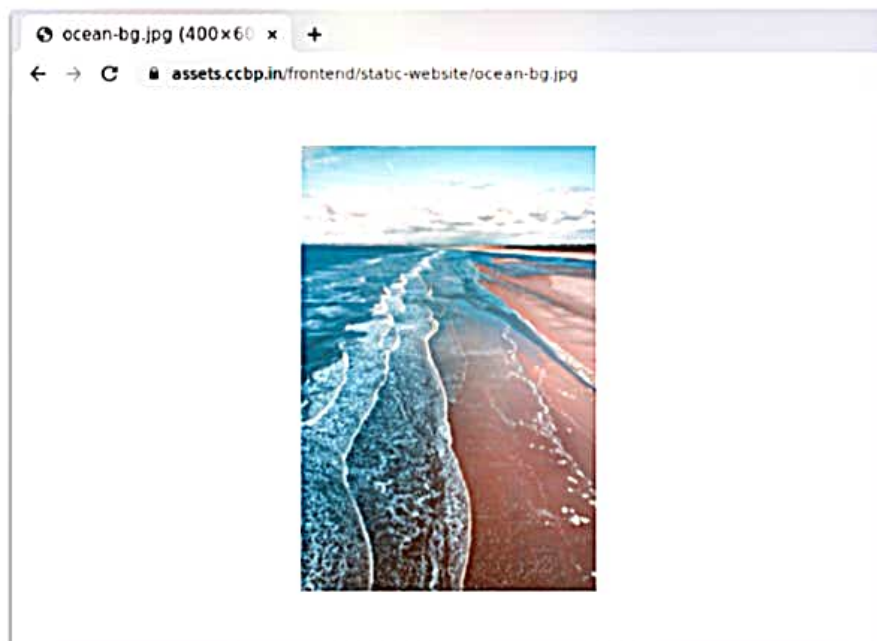
PROPERTY

VALUE



Browser

## Getting Image URL



## Adding Background Image URL

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

PROPERTY

VALUE

CSS Ruleset

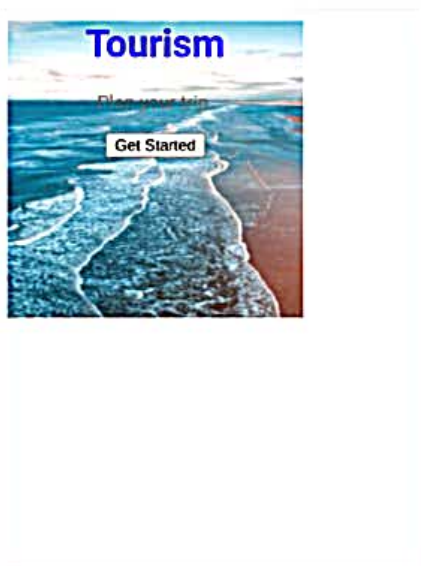
## Background Image

CSS

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

Background Image

## Output of the Code Snippet

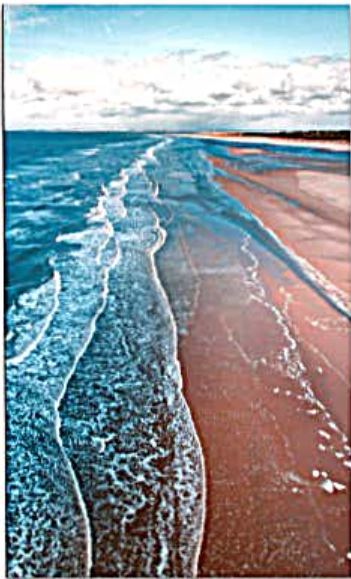


How to make the background image  
fill the complete height and width  
of the screen?



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)



$50\text{vh} = 50\%$  of the viewport height

$100\text{vh} = 100\%$  of the viewport height



Backgrounds

## Viewport Width (vw)



**50vw** = 50% of the viewport width

**100vw** = 100% of the viewport width



Backgrounds

## Applying Viewport Height (100vh)

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

CSS

Backgrounds

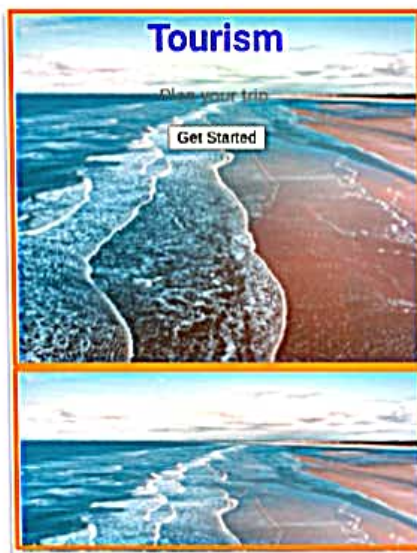
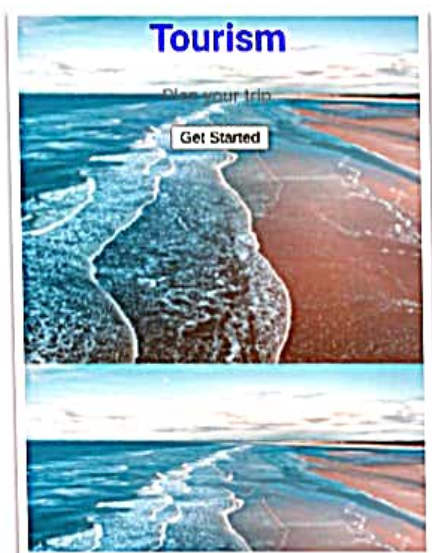
## Repeating Vertically

Image is small  
So, background image  
is repeating vertically



Backgrounds

## Repeating Vertically



} Vertically  
repeating

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

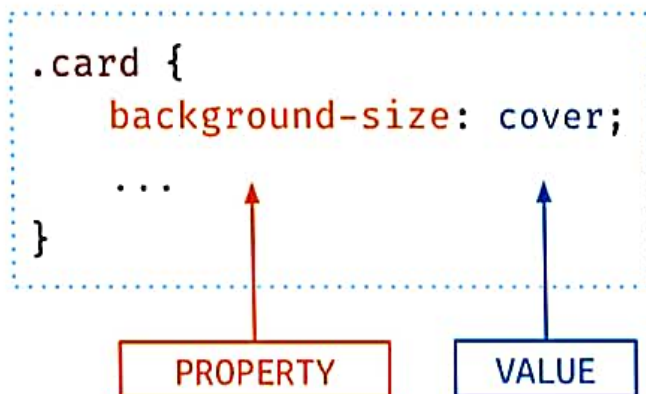
## How to address these issues?





CSS Syntax

## Background Size



## 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



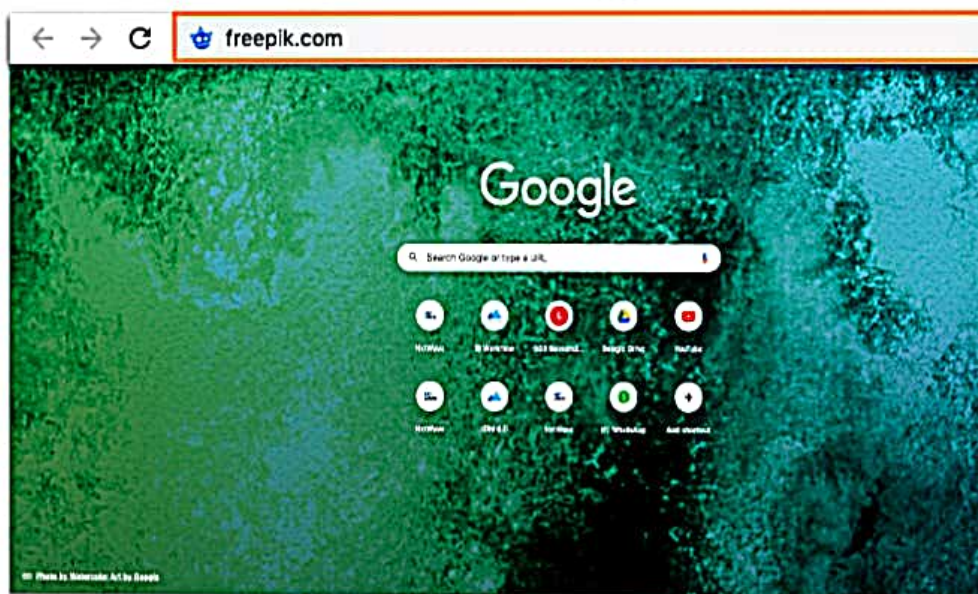
## How to Get Image URL from the Internet?



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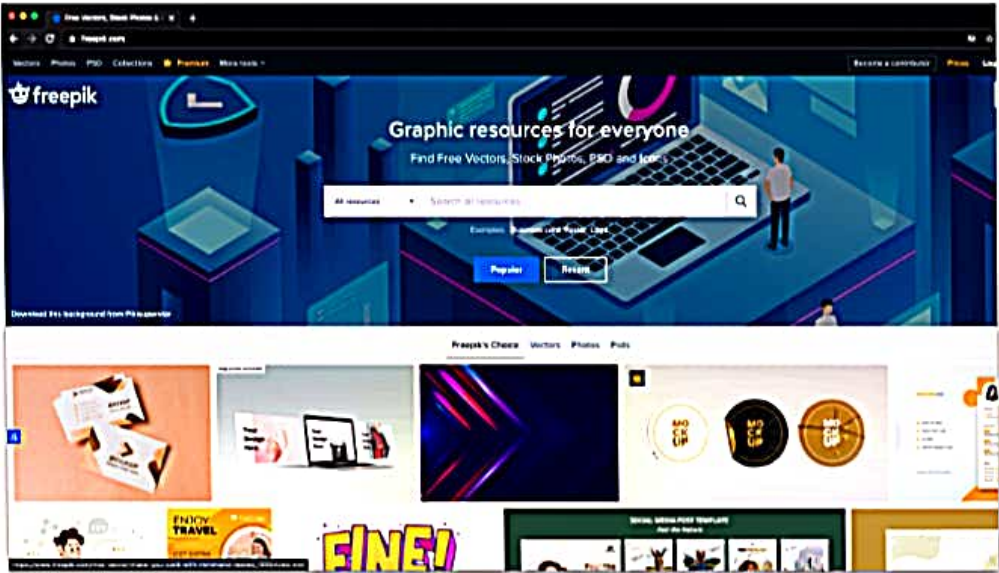
Getting URL of an Image

Open [freepik.com](https://freepik.com)



Desktop View

# Freepik.com



Mobile View

Freepik.com

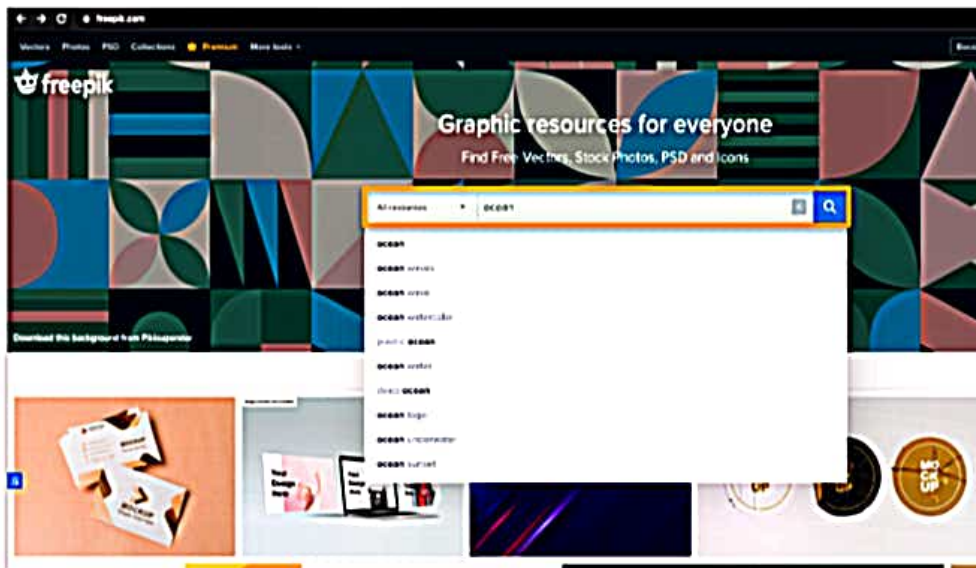


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Desktop View

## Search for Image





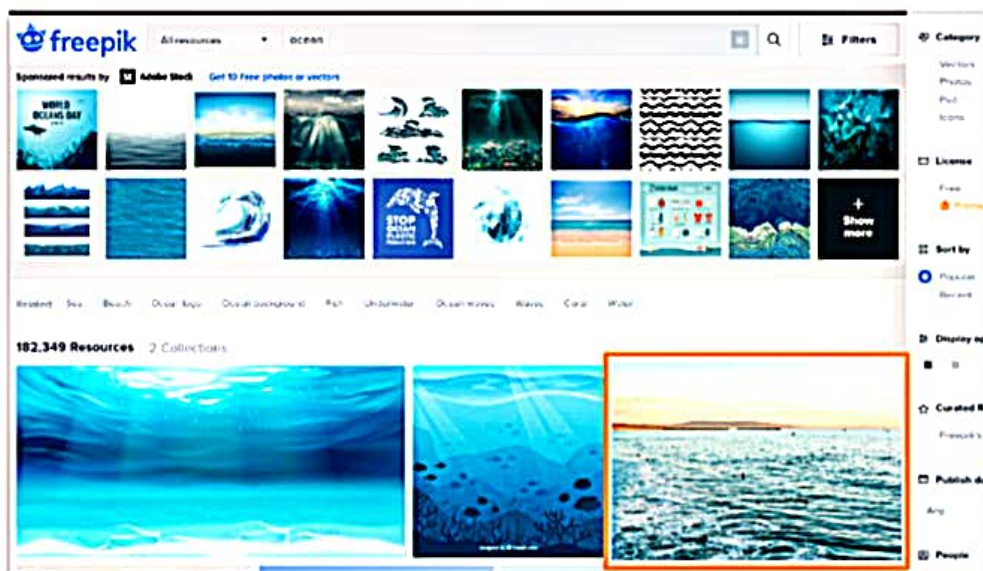
Mobile View

## Search for Image



Desktop View

## Choose an Image



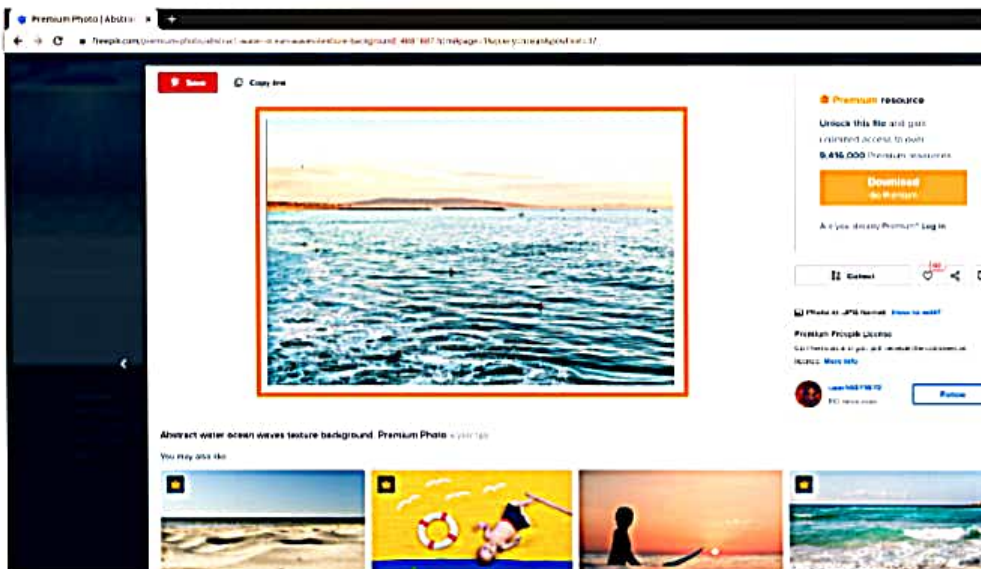
Mobile View

## Choose an Image



Desktop View

## Right Click an Image



Mobile View

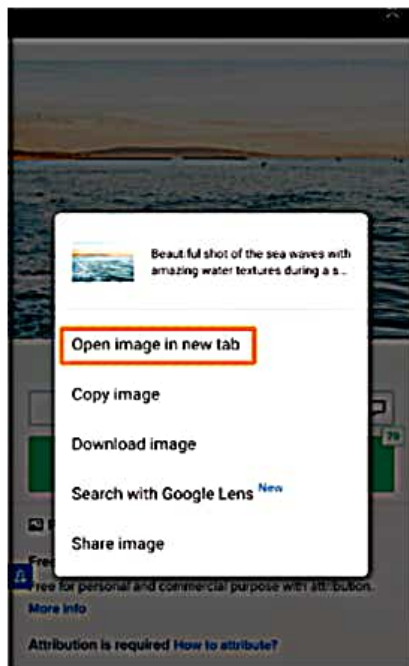
## Long Press on the Image





Mobile View

## Select Open Image in New Tab Option



Desktop View

Copy your Image URL





Mobile View

## Copy your Image URL



Example

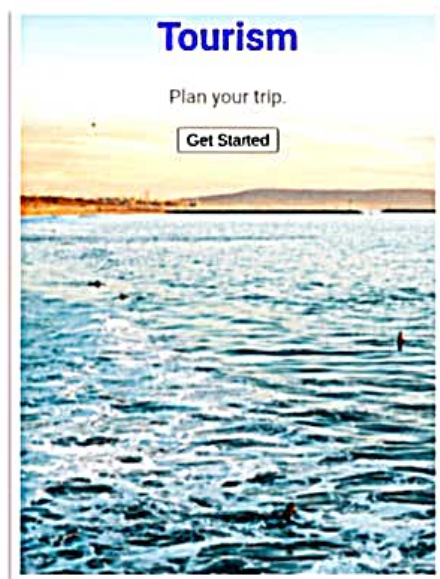
## Adding Background Image

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;  
}
```

Example

## Output of the Code Snippet



Introduction to CSS Box Model

## Key Takeaways

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



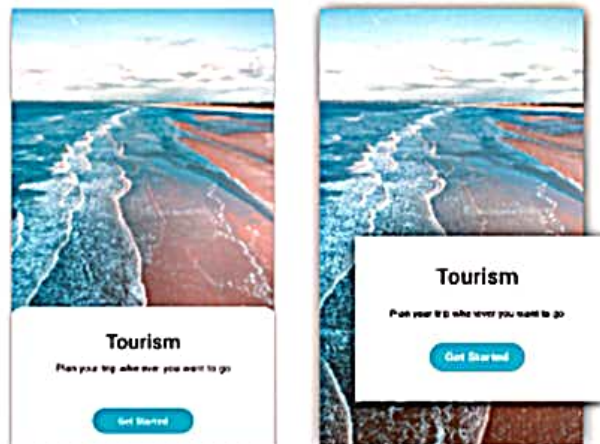
## Key Takeaways

- ✔ 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**

