

## Task 6



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## Introduction

### **Difference Between Box Shadow and Drop Shadow:**

#### Box Shadow:

**Applies to:** The entire rectangular box model of an HTML element (e.g., div, button, p).

**Shape:** Creates a shadow that follows the rectangular boundaries of the element's box, regardless of any transparency within the element's content.

**CSS Property:** Implemented using the box-shadow CSS property.

**Use Cases:** Ideal for creating shadows on block-level elements like cards, buttons, containers, and other rectangular UI components.

#### Drop Shadow:

**Applies to:** The visible content of an element, respecting its alpha channel (transparency).

**Shape:** Creates a shadow that conforms to the actual, non-rectangular shape of the content within the element, even if the element itself has a rectangular box model. This is especially useful for images with transparent backgrounds (like PNGs), icons, or SVGs.

**CSS Property:** Implemented using the filter: drop-shadow() CSS function.

**Use Cases:** Best for adding shadows to transparent images, logos, icons, or any element where the shadow should follow the contours of the visible content rather than the bounding box.

## Box Shadow

### **Syntax:**

box-shadow: (horizontal-offset) (vertical-offset) (blur-radius) (spread-radius)  
(color);

### **Parameters:**

#### Horizontal offset (Required):

- Specifies the horizontal distance of the shadow from the element.
- Positive values move the shadow to the right; negative values move it to the left.

#### Vertical offset (Required):

- Specifies the vertical distance of the shadow from the element.
- Positive values move the shadow downwards.
- negative values move it upwards.

#### Blur-radius (Optional):

- Defines the blurriness of the shadow.
- A value of 0 results in a sharp shadow.
- Higher values create a more diffused, blurred shadow.
- Negative values are not allowed.

#### Spread radius (Optional):

- Adjust the size of the shadow.
- Positive values expand the shadow in all directions.
- Negative values contract the shadow.
- The default value is 0, meaning the shadow's size is determined by the blur radius.

## Examples:

```
<!DOCTYPE html>
<html>
<head>
<style>
div {
    width: 300px;
    height: 100px;
    padding: 15px;
    background-color: coral;
    box-shadow: 10px 10px;
}
</style>
</head>
<body>

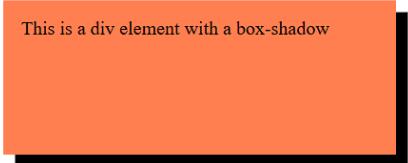
<h1>The box-shadow Property</h1>

<div>This is a div element with a box-shadow</div>

</body>
</html>
```

## The box-shadow Property

This is a div element with a box-shadow



```
<!DOCTYPE html>
<html>
<head>
<style>
div {
    width: 300px;
    height: 100px;
    padding: 15px;
    background-color: grey;
    box-shadow: 20px 10px 2px 1px red ;
}
</style>
</head>
<body>

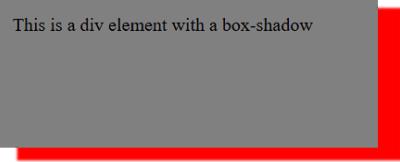
<h1>The box-shadow Property</h1>

<div>This is a div element with a box-shadow</div>

</body>
</html>
```

## The box-shadow Property

This is a div element with a box-shadow



## Drop Shadow (via filter)

### Definition:

- Follows the visible shape of the element (non-rectangular or transparent areas).
- Great for images, PNGs, and SVGs with transparent backgrounds.

### Examples:

The screenshot shows a web-based code editor interface with a live preview area. On the left, the HTML and CSS code is displayed, and on the right, the resulting image is shown with different drop shadow effects.

**Code (Left):**

```
<!DOCTYPE html>
<html>
<head>
<style>
#img1 {
    filter: drop-shadow(8px 8px);
}

#img2 {
    filter: drop-shadow(8px 8px 10px);
}

#img3 {
    filter: drop-shadow(10px 10px 7px orange);
}
</style>
</head>
<body>

<h1>The drop-shadow() Function</h1>

<p>drop-shadow(8px 8px);</p>


<p>drop-shadow(8px 8px 10px);</p>


<p>drop-shadow(10px 10px 7px orange);</p>


<br>


#img2 {
    filter: drop-shadow(8px 8px 5px);
}

#img3 {
    filter: drop-shadow(10px 10px 7px orange);
}
</style>
</head>
<body>

<h1>The drop-shadow() Function</h1>

<p>drop-shadow(8px 8px);</p>


<p>drop-shadow(8px 8px 10px);</p>


<p>drop-shadow(10px 10px 7px orange);</p>


<br>


</body>
</html>
```

**Preview (Right):**

- Top row: Three pineapples with different drop shadow properties: `drop-shadow(8px 8px 10px)`.
- Middle row: Three pineapples with different drop shadow properties: `drop-shadow(8px 8px 10px)`.
- Bottom row: Three pineapples with different drop shadow properties: `drop-shadow(10px 10px 7px orange)`.
- Bottom right: A small image labeled "Original image".

## **References**

- <https://www.w3schools.com>