**Working with images**

Browser cannot display all types of images.

The following types of images are displayed by browser

|  |  |  |
| --- | --- | --- |
| **Image Type** | **MIME** | **Extension** |
| PNG,APNG  Animated Portable Network Graphics | Image/apng | .png .apng |
| |  |  | | --- | --- | | [JPEG](https://developer.mozilla.org/en-US/docs/Web/Media/Formats/Image_types#jpeg_joint_photographic_experts_group_image) | Joint Photographic  Expert Group image | | Image/jpeg | .jpg,.jpeg,.jfif |
| |  |  | | --- | --- | | [GIF](https://developer.mozilla.org/en-US/docs/Web/Media/Formats/Image_types#gif_graphics_interchange_format) | Graphics Interchange  Format | | Image/gif | .gif |
| [BMP](https://developer.mozilla.org/en-US/docs/Web/Media/Formats/Image_types#bmp_bitmap_file) Bitmap file | Image/bmp | .bmp |
| |  |  | | --- | --- | | [ICO](https://developer.mozilla.org/en-US/docs/Web/Media/Formats/Image_types#ico_microsoft_windows_icon) | Microsoft Icon | | Image/x-icon | .ico .cur |
| |  |  | | --- | --- | | [TIFF](https://developer.mozilla.org/en-US/docs/Web/Media/Formats/Image_types#tiff_tagged_image_file_format) | Tagged Image File  Format | | Image/tiff | .tif.fiff |
| |  |  | | --- | --- | | [SVG](https://developer.mozilla.org/en-US/docs/Web/Media/Formats/Image_types#svg_scalable_vector_graphics) | Scalable Vector Graphics | |  |  | | Image/svg+xml | .svg |

MIME 🡪 Stands for Multipurpose Internet Mail Extension (Content Type), always browser renders content based on content type.

**PNG & APNG**

* High Definition Images
* These images occupy more space
* More pixel depth
* APNG can be animated
* PNG is not animated
* Downloadable images

**JPEG**

* High definition images
* Less pixel depth compared to PNG
* Compressed image
* Less Memory
* It can be used for displaying with webpage

**GIF**

* Support 256 colors
* Less pixel depth
* Less Memory
* It is good for displaying within webpage
* GIF can be animated

**TIFF**

[TIFF](https://en.wikipedia.org/wiki/TIFF) is a raster graphics file format which was created to store scanned photos, although it can be any kind of image.

**BMP**

* Bit map image
* This used for uploading images within database or image data within database

**ICO**

* Icon images are represented with extension .ico

Example : Cursors, fevicon

**SVG**

* Scalable Vector Graphics
* Dynamic images, which created using programming
* SVG is created using XML (Extensible Markup Language)

**<img> tag/element**

This element is used to insert image within web page.

This element or tag having basic attributes to define the properties of image.

Basic Attributes

1. src : it refer to source or image name or image file name, always source is given using virtual path.
2. Alt : alternative. This attribute is used to display text if image is not displayed.
   1. Browser/Client disable images
   2. Browser does not support image format
3. Width & Height : define width and height of the image
4. title : title of the image is nothing but tool tip. This is displayed when cursor moved on the image
5. border : image border can be defined using this attribute
6. align : alignment of image (left/center/right)
7. vspace & hspace: Vertical spaces and Horizontal spaces

**Example:**

<!DOCTYPE *html*>

<html *lang*="en">

<head>

    <meta *charset*="UTF-8">

    <meta *name*="viewport" *content*="width=device-width, initial-scale=1.0">

    <title>Image Test</title>

</head>

<body>

    <img *src*="images/kids-banner.avif" *alt*="Kids Banner" *width*="300" *height*="300" align="left" *title*="Kids">

    <p>

        Lorem, ipsum dolor sit amet consectetur adipisicing elit. Accusantium eaque hic aliquid dolore ipsam? Quisquam, eligendi iusto minus omnis dolores dicta laborum est accusantium nostrum? Architecto sequi beatae neque soluta.

        Lorem ipsum dolor sit amet consectetur adipisicing elit. Excepturi quibusdam, aliquid exercitationem vero voluptatum fuga vel neque placeat commodi ex ipsam omnis blanditiis deleniti harum ipsum nobis cum, delectus similique!

        Lorem ipsum dolor sit amet consectetur adipisicing elit. Laudantium, reprehenderit. Odio molestias, magni delectus voluptatibus non nesciunt vero qui dolorum adipisci illum, dolorem a consectetur, consequuntur quisquam? Corporis, nobis eaque!

</p>

</body>

</html>

**Example**

<!DOCTYPE *html*>

<html *lang*="en">

<head>

    <meta *charset*="UTF-8">

    <meta *name*="viewport" *content*="width=device-width, initial-scale=1.0">

    <link *rel*="stylesheet" *href*="../node\_modules/bootstrap-icons/font/bootstrap-icons.css">

    <title></title>

    <style>

        main{

            display: grid;

            grid-template-columns: 3fr 9fr;

        }

        .rating

        {

            color:white;

            background-color: green;

            border: 1px solid green;

            padding: 5px;

            border-radius: 5px;

        }

        ul{

            list-style: none;

            color:green;

            font-size: 20px;

        }

        li{

            margin-bottom: 10px;

        }

        li span {

            color:black;

            margin-left: 15px;

        }

    </style>

</head>

<body>

    <main>

    <div>

        <img *src*="images/moto.jpg" *height*="400" *width*="400px">

    </div>

    <div>

        <div>

            <font *face*="Arial" *size*="5">Motorola G85 5G (Cobalt Blue, 256 GB)  (12 GB RAM)</font>

        </div>

        <br>

        <div>

            <span *class*="rating">4.0 <span *class*="bi bi-star-fill"></span></span><font *size*="5" *color*="gray">&nbsp;&nbsp;&nbsp;&nbsp;6,688 Ratings & 355 Reviews</font>

        </div>

        <br>

        <div>

            <font *size*="4" *color*="green">Extra &#8377; 3000 off</font>

        </div>

        <br>

        <div>

            <font *size*="6"><b>&#8377;19,999</b></font>&nbsp;&nbsp;<font *size*="4" *color*="gray">&#8377;<strike>22,999</strike></font>&nbsp;<font *size*="5" *color*="green">13% off</font>&nbsp;&nbsp;<span *class*="bi bi-info-circle"></span>

        </div>

        <br>

        <div>

           <font *size*="4"><b>Available offers</b></font>

        </div>

        <div>

            <ul>

                <li *class*="bi bi-tag-fill"><span>Special PriceGet extra ₹3000 off (price inclusive of cashback/coupon)</span></li>

                <li *class*="bi bi-tag-fill"><span>FreebieFlat ₹1000 off on Cleartrip hotels booking along with 300 supercoins on booking</span></li>

                <li *class*="bi bi-tag-fill"><span>Partner OfferMake a purchase and enjoy a surprise cashback/ coupon that you can redeem later</span></li>

            </ul>

        </div>

    </div>

    </main>

</body>

</html>

**Example:**

<!DOCTYPE *html*>

<html *lang*="en">

<head>

    <meta *charset*="UTF-8">

    <meta *name*="viewport" *content*="width=device-width, initial-scale=1.0">

    <link *rel*="stylesheet" *href*="../node\_modules/bootstrap-icons/font/bootstrap-icons.css">

    <title>INOX</title>

    <style>

        main{

            display:grid;

            grid-template-columns: 2.4fr 2.4fr 2.4fr 2.4fr 2.4fr;

        }

        .card {

            margin-left: 10px;

            margin-top: 30px;

            border: 1px solid black;

            width:205px

        }

        .card-header

        {

            height:300px;

        }

        .img-cls

        {

            height:100%;

        }

        .title-1

        {

            font-size: 12px;

            font-weight: bold;

            font-family: Arial, Helvetica, sans-serif;

            margin-top: 5px;

        }

        .title-2{

            color:gray

        }

        .title-3{

            color:gray;

        }

        .bi-square-fill

        {

            font-size: 5px;

        }

        .book-btn{

            border: 1px solid blue;

            background-color: blue;

            color:white;

            padding:10px;

            border-radius: 5px;

            text-align: center;

            font-family: Arial;

            width:100px;

            display:inline-block;

            margin-right: 20px;

        }

        .card-footer

        {

            margin-top: 5px;

        }

    </style>

</head>

<body>

    <main>

        <div *class*="card">

            <div *class*="card-header">

                 <img *src*="images/a1.jpg" *class*="img-cls">

            </div>

            <div *class*="card-body">

               <div *class*="title-1">STREE 2 SARKATE KA AATANK</div>

                <div *class*="title-2">U/A <span *class*="bi-square-fill"></span> Horror</div>

                <div *class*="title-3">Hindi</div>

            </div>

            <div *class*="card-footer">

                <div>

                    <span *class*="book-btn">BookTickets</span>

                    <span *class*="bi bi-info-circle"></span>

                </div>

            </div>

        </div>

        <div *class*="card">

            <div *class*="card-header">

                 <img *src*="images/a2.webp" *class*="img-cls">

            </div>

            <div *class*="card-body">

               <div *class*="title-1">STREE 2 SARKATE KA AATANK</div>

                <div *class*="title-2">U/A <span *class*="bi-square-fill"></span> Horror</div>

                <div *class*="title-3">Hindi</div>

            </div>

            <div *class*="card-footer">

                <div>

                    <span *class*="book-btn">BookTickets</span>

                    <span *class*="bi bi-info-circle"></span>

                </div>

            </div>

        </div>

        <div *class*="card">

            <div *class*="card-header">

                 <img *src*="images/a3.jpg" *class*="img-cls">

            </div>

            <div *class*="card-body">

               <div *class*="title-1">STREE 2 SARKATE KA AATANK</div>

                <div *class*="title-2">U/A <span *class*="bi-square-fill"></span> Horror</div>

                <div *class*="title-3">Hindi</div>

            </div>

            <div *class*="card-footer">

                <div>

                    <span *class*="book-btn">BookTickets</span>

                    <span *class*="bi bi-info-circle"></span>

                </div>

            </div>

        </div>

        <div *class*="card">

            <div *class*="card-header">

                 <img *src*="images/a4.avif" *class*="img-cls">

            </div>

            <div *class*="card-body">

               <div *class*="title-1">STREE 2 SARKATE KA AATANK</div>

                <div *class*="title-2">U/A <span *class*="bi-square-fill"></span> Horror</div>

                <div *class*="title-3">Hindi</div>

            </div>

            <div *class*="card-footer">

                <div>

                    <span *class*="book-btn">BookTickets</span>

                    <span *class*="bi bi-info-circle"></span>

                </div>

            </div>

        </div>

        <div *class*="card">

            <div *class*="card-header">

                 <img *src*="images/a5.avif" *class*="img-cls">

            </div>

            <div *class*="card-body">

               <div *class*="title-1">STREE 2 SARKATE KA AATANK</div>

                <div *class*="title-2">U/A <span *class*="bi-square-fill"></span> Horror</div>

                <div *class*="title-3">Hindi</div>

            </div>

            <div *class*="card-footer">

                <div>

                    <span *class*="book-btn">BookTickets</span>

                    <span *class*="bi bi-info-circle"></span>

                </div>

            </div>

        </div>

    </main>

</body>

</html>