**HTML <!DOCTYPE> Declaration**

The declaration is not an HTML tag. It is an "information" to the browser about what document type to expect.

## Position

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| --- | --- |
| static | * Default |
| relative | * The element is positioned relative to its normal position. * The top, right, bottom, and left properties can be used. |
| absolute | * The element is positioned relative to its nearest positioned ancestor. * The top, right, bottom, and left properties determine the final position. |
| fixed | * The element is positioned relative to the viewport. * Remains in the same position even when the page is scrolled. * The top, right, bottom, and left properties determine the final position. |
| sticky | * The element is treated as relative until it crosses a specified threshold, at which point it is treated as fixed. * The top, right, bottom, and left properties determine the thresholds at which the element switches from relative to fixed.  |  | | --- | | div {  position: sticky;  /\* Becomes fixed when its top edge reaches the top of the viewport \*/  top: 0;  } | |

## Display

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| --- | --- |
| **block** | * Width match parent. * The width and height can be set explicitly. |
| **inline** | * Width wrap content. * The width and height cannot be set. |
| **Inline-block** | * Inline element but can have width and height set like a block element. |
| **flex** | * Children of a flex container can be aligned and distributed in various ways. |
| **grid** | * The element is displayed as a grid container. |
| **none** | * The element is not displayed at all. |
| **table** | * The element is displayed as a table, similar to the <table> HTML element. * table-row: Equivalent to a <tr>. * table-cell: Equivalent to a <td>. * table-caption: Equivalent to a <caption>. |

## Container properties of display: flex;

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| **flex-direction:** Defines the direction in which flex items are placed in the flex container. | * row (default) – left to right * row-reverse – right to left * column – top to bottom * column-reverse – bottom to top |
| **flex-wrap:** Defines whether flex items should wrap onto multiple lines. | * nowrap (default) – single line * wrap – multiple lines * wrap-reverse – multiple lines in reverse order |
| **flex-flow:**  A shorthand for flex-direction and flex-wrap. | * Combination of flex-direction and flex-wrap values |
| **justify-content:**  Aligns flex items along the main axis. | * flex-start (default) – start of the container * flex-end – end of the container * center – center of the container * space-between – equal space between items * space-around – equal space around items * space-evenly – equal space between and around items |
| **align-items:**  Aligns flex items along the cross axis. | * stretch (default) – stretch to fill the container * flex-start – start of the cross axis * flex-end – end of the cross axis * center – center of the cross axis * baseline – align items' baselines |
| **align-content:**  Aligns flex lines within the flex container. | * stretch (default) – stretch to fill the container * flex-start – start of the container * flex-end – end of the container * center – center of the container * space-between – equal space between lines * space-around – equal space around lines |

## Item properties of display: flex;

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| **order:**  Defines the order of the flex items. | * The order value must be a number, default value is 0. |
| **flex-grow:**  Defines the ability for a flex item to grow if necessary. | * 1 – item can grow to fill available space * 0 (default) – item will not grow |
| **flex-shrink:**  Defines the ability for a flex item to shrink if necessary. | * 1 (default) – item can shrink to fit the container * 0 – item will not shrink |
| **flex-basis:**  Defines the default size of a flex item before any available space is distributed. | * auto (default) * content (size based on content) * length values (e.g., 200px) |
| **flex:**  A shorthand for flex-grow, flex-shrink, and flex-basis. | * flex-grow flex-shrink flex-basis * 1 1 auto (default) |
| **align-self:**  Allows the default alignment (or the one specified by align-items) to be overridden for individual flex items. | * auto (default) – use align-items value * flex-start * flex-end * center * baseline * stretch |