

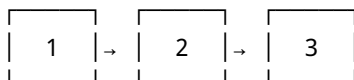
# CSS Flexbox – All Properties (With Tables & Simple Definitions)

## FLEX CONTAINER (PARENT) PROPERTIES

### 1. display

Value	Simple Definition
flex	Creates a block-level flex container
inline-flex	Creates an inline flex container

#### Visual Diagram (Box + Arrow Style)



**Memory Trick:** "Flex turns children into boxes that follow arrows"

```
[ Container (flex) ]
├─ Item 1
├─ Item 2
└─ Item 3
```

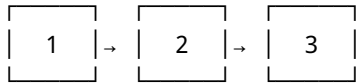
-----|-----| | flex | Creates a block-level flex container | | inline-flex | Creates an inline flex container |

### 2. flex-direction

 **Memory Trick:** "Direction decides the arrow flow"

Value	Simple Definition
row	Items left to right (default)
row-reverse	Items right to left
column	Items top to bottom
column-reverse	Items bottom to top

#### Visual Diagram (Box + Arrow Style)



**Memory Trick:** "Flex turns children into boxes that follow arrows"

```
row →  [1] [2] [3]
column ↓
[1]
[2]
[3]
```

-----|-----| | row | Items left to right (default) | | row-reverse | Items right to left | | column |  
Items top to bottom | | column-reverse | Items bottom to top |

### 3. flex-wrap

 **Memory Trick:** "Wrap = move to next line"

Value	Simple Definition
nowrap	All items in one line
wrap	Items move to next line
wrap-reverse	Items wrap in reverse

#### Visual Diagram (Box + Arrow Style)



**Memory Trick:** "Flex turns children into boxes that follow arrows"

```
nowrap: [1][2][3][4]
wrap:
[1][2]
[3][4]
```

-----|-----| | nowrap | All items in one line | | wrap | Items move to next line | | wrap-reverse  
| Items wrap in reverse |

## 4. flex-flow (Shorthand)

🧠 **Memory Trick:** "Flow = direction + wrap" (Shorthand)

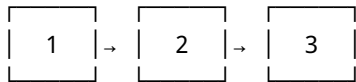
Syntax	Simple Definition
row wrap	Combines direction & wrap

## 5. justify-content (Main Axis)

🧠 **Memory Trick:** "Justify = main axis spacing" (Main Axis)

Value	Simple Definition
flex-start	Items at start
flex-end	Items at end
center	Items centered
space-between	Space between items
space-around	Space around items
space-evenly	Equal space

### Visual Diagram (Box + Arrow Style)



**Memory Trick:** "Flex turns children into boxes that follow arrows"

```
| 1 2 3 | flex-start
| 1 2 3 | center
| 1   2   3 | space-between
```

-----|-----| | flex-start | Items at start | | flex-end | Items at end | | center | Items centered | |  
space-between | Space between items | | space-around | Space around items | | space-evenly | Equal  
space |

## 6. align-items (Cross Axis)

🧠 **Memory Trick:** "Align-items = vertical alignment" (Cross Axis)

Value	Simple Definition
stretch	Stretch items (default)
flex-start	Items at top
flex-end	Items at bottom
center	Items centered
baseline	Align text baseline

### Visual Diagram (Box + Arrow Style)




**Memory Trick:** "Flex turns children into boxes that follow arrows"

```

Top      [1][2][3]
Center   [1][2][3]
Bottom   [1][2][3]
  
```

-----|-----| | stretch | Stretch items (default) | | flex-start | Items at top | | flex-end | Items at bottom | | center | Items centered | | baseline | Align text baseline |

## 7. align-content (Multiple Lines)

 **Memory Trick:** "Align-content works on rows, not items" (Multiple Lines)

Value	Simple Definition
stretch	Stretch rows
flex-start	Rows at top
flex-end	Rows at bottom
center	Rows centered
space-between	Space between rows
space-around	Space around rows


## 8. gap / row-gap / column-gap

 **Memory Trick:** "Gap = breathing space" / row-gap / column-gap

Property	Simple Definition
gap	Space between items
row-gap	Vertical space
column-gap	Horizontal space

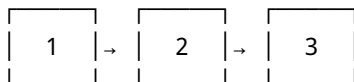
## FLEX ITEM (CHILD) PROPERTIES

### 9. order

 **Memory Trick:** "Order changes visual position, not HTML"

Value	Simple Definition
0	Default order
+/- number	Changes order

#### Visual Diagram (Box + Arrow Style)




**Memory Trick:** "Flex turns children into boxes that follow arrows"

HTML: 1 2 3  
order: 1 3 2

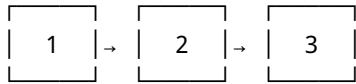
-----|-----| | 0 | Default order | | +/- number | Changes order |

### 10. flex-grow

 **Memory Trick:** "Grow eats extra space"

Value	Simple Definition
0	Does not grow
1+	Grows to fill space

#### Visual Diagram (Box + Arrow Style)




**Memory Trick:** "Flex turns children into boxes that follow arrows"

[1] [2 grows more]

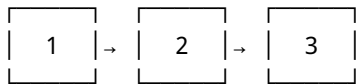
-----|-----| | 0 | Does not grow | | 1+ | Grows to fill space |

## 11. flex-shrink

 **Memory Trick:** "Shrink sacrifices size"

Value	Simple Definition
1	Can shrink
0	Cannot shrink

**Visual Diagram (Box + Arrow Style)**




**Memory Trick:** "Flex turns children into boxes that follow arrows"

Screen ↓ [1 shrinks] [2 fixed]

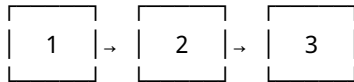
-----|-----| | 1 | Can shrink | | 0 | Cannot shrink |

## 12. flex-basis

 **Memory Trick:** "Basis = starting size"

Value	Simple Definition
auto	Based on content
px / %	Initial size

**Visual Diagram (Box + Arrow Style)**



**Memory Trick:** "Flex turns children into boxes that follow arrows"

[200px] [auto]

-----|-----| | auto | Based on content | | px / % | Initial size |

### 13. flex (Shorthand)

 **Memory Trick:** "Flex = grow shrink basis"

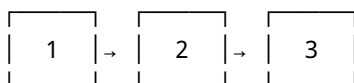
Syntax	Simple Definition
1	Equal growth
0 0 200px	Fixed size
1 1 auto	Flexible

### 14. align-self

 **Memory Trick:** "Self beats items"

Value	Simple Definition
auto	Uses container
flex-start	Align start
flex-end	Align end
center	Center item
stretch	Stretch item

**Visual Diagram (Box + Arrow Style)**



**Memory Trick:** "Flex turns children into boxes that follow arrows"

Item 2 ↓ aligned differently

[1]

[2]

[3]

-----|-----| | auto | Uses container | | flex-start | Align start | | flex-end | Align end | | center  
| Center item | | stretch | Stretch item |

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## Not Used in Flexbox

Property	Reason
justify-self	Works only in CSS Grid

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