

# CSS

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## CSS

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### Floating

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- can **float** elements out of normal document flow
  - float: left; and float: right;
  - generates elements organized vertically
  - eg. text columns
- often use **clear** property after a float
  - someClass:after { clear: both; }

### Flexbox

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- a CSS display type
  - positions elements relative to their parents and each other
  - works *responsively* as well
- flex container:
  - display: flex;

- flex-wrap: wrap;
  - \* wraps elements along the cross axis as browser shrinks
  - \* wrap-reverse wraps elements above
  - \* nowrap default
- justify-content: center;
  - \* centers elements in container along the main axis
  - \* flex-end, flex-start (default)
  - \* space-around, space-between
- align-items: center;
  - \* centers elements in container along the cross axis
  - \* flex-end, flex-start (default)
- flex-flow: column
  - \* main axis now vertical, now the cross axis is horizontal
  - \* column-reverse, row-reverse, row (default)
- items within flex container:
  - flex-grow: 1;
    - \* specifies growth rate compared to siblings when expanding in the container
  - flex-shrink: 1;
    - \* specifies shrink rate compared to siblings as browser shrinks (default is equal)
  - flex-basis: 200px;
    - \* essentially an initial width for elements (along the cross axis)
    - \* unlike minimum-width, elements can shrink below this width
  - can combine the above properties:
    - \* flex: 1 0 200px; (grow, shrink, basis)
    - \* flex: 1; (grow and shrink 1, basis defaults to 0)
  - order changes the order of elements
    - \* lower order comes first, defaults to 0

Simple Navbar Example:

```
/* default to dropdown-style navbar */
nav ul {
  list-style-type: none;
  padding: 0;
}

nav a {
```

```
text-decoration: none;
text-align: center;
color: #fff;
display: block;
padding: 10px;
}

nav a:hover {
  background-color: #555;
}

@media screen and (min-width: 768px) {
  /* flexbox above certain width */
  nav ul {
    display: flex;
  }

  nav li {
    flex: 1 1 0;
  }
}
```