Tailwind CSS Topics — Descriptions & Examples

Styling with utility classes

Description: Use small, single-purpose CSS classes directly in your HTML to style elements quickly without writing custom CSS.

Example:

html

CopyEdit

<div class="bg-blue-500 text-white p-4 rounded">Hello Tailwind!</div>

Hover, focus, and other states

Description: Apply styles conditionally for interaction states like hover and focus by prefixing classes (e.g., hover:bg-blue-700).

Example:

html

CopyEdit

<button class="bg-green-500 hover:bg-green-700 text-white py-2 px-4 rounded">Hover
me</button>

Responsive design

Description: Use prefixes like sm:, md:, lg: to apply different styles on different screen sizes.

Example:

html

CopyEdit

<div class="text-sm md:text-lg lg:text-xl">Responsive text size</div>

Dark mode

Description: Tailwind supports dark mode styling using the dark: prefix. Styles apply when dark mode is enabled.

Example:

html

CopyEdit

<div class="bg-white dark:bg-gray-800 text-black dark:text-white p-4">Dark mode
content</div>

Theme variables

Description: Customize your Tailwind config to set theme colors, fonts, spacing, and more, allowing design consistency.

Example:

```
js
CopyEdit
// tailwind.config.js
module.exports = {
  theme: {
    extend: {
     colors: { primary: '#1DA1F2' },
    },
  },
}
```

Colors

Description: Use utility classes for colors like background, text, border with Tailwind's color palette.

Example:

html

CopyEdit

Colored text and background

Adding custom styles

Description: Add your own CSS or extend Tailwind utilities in the config for unique styles.

Example:

```
js
CopyEdit
// tailwind.config.js
module.exports = {
  extend: {
    spacing: { '72': '18rem' },
  },
}
```

Detecting classes in source files

Description: Tailwind scans your source files for class names to generate only necessary CSS (purge).

Example:

```
js
CopyEdit
// tailwind.config.js
module.exports = {
  content: ['./src/**/*.{html,js,vue}'],
}
```

Functions and directives

Description: Use Tailwind directives like @apply in your CSS to compose utility classes.

Example:

```
CSS
```

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```
.btn {
```

@apply bg-blue-500 text-white font-bold py-2 px-4 rounded;

Base styles

Description: Tailwind includes a base set of CSS resets and sensible defaults for consistency across browsers.

Example: No direct example — applies automatically.

Preflight

Description: Tailwind's "preflight" resets browser styles to a consistent baseline.

Example: No direct example — included by default.

Layout

aspect-ratio

Description: Control the aspect ratio of an element (e.g., 16:9).

Example:

html

CopyEdit

<div class="aspect-w-16 aspect-h-9 bg-gray-300"></div>

columns

Description: Create multi-column layouts easily with utilities for number of columns.

Example:

html

```
<div class="columns-3 gap-4">
  Column 1Column 2Column 3
</div>
```

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Description: Control page, column, or region breaks after an element.

Example:

html

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<div class="break-after-page">Break after this element</div>

break-before

Description: Control breaks before an element.

Example:

html

CopyEdit

<div class="break-before-column">Break before this element</div>

break-inside

Description: Prevent or allow breaks inside an element (like a column).

Example:

html

CopyEdit

<div class="break-inside-avoid">Avoid break inside</div>

box-decoration-break

Description: Control how box decorations behave when broken over lines.

Example:

html

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Decorated text

box-sizing

Description: Control box model sizing: content-box or border-box. Example:
html
CopyEdit
<div class="box-border p-4 border-2">Box border sizing</div>
display
Description: Control element display type: block, inline, flex, grid, etc. Example:
html
CopyEdit
<div class="flex justify-center items-center">Flex container</div>
float
Description: Float elements left, right, or none. Example:
html
CopyEdit

clear
Description: Control clear behavior after floated elements. Example:
html
CopyEdit
<div class="clear-both">Clears floated elements</div>
isolation

Description: Create a new stacking context with isolation. Example:
html
CopyEdit
<div class="isolation-isolate">New stacking context</div>
object-fit
Description: Control how replaced content (images/videos) fit their box. Example:
html
CopyEdit

object-position
Description: Control the position of replaced content inside its box. Example:
html
CopyEdit

overflow
Description: Control what happens when content overflows: visible, hidden, scroll, auto. Example:
html
CopyEdit
<div class="overflow-auto h-40">Scrollable content</div>

overscroll-behavior

Description: Control behavior when reaching scroll boundaries. Example:
html
CopyEdit
<div class="overscroll-contain">Contain overscroll</div>
position
Description: Control element positioning: static, relative, absolute, fixed, sticky. Example:
html
CopyEdit
<div class="relative top-4 left-2">Relative positioned</div>
top / right / bottom / left
Description: Set offsets for positioned elements. Example:
html
CopyEdit
<div class="absolute top-0 right-0">Top right corner</div>
visibility
Description: Control visibility: visible or hidden (still takes space). Example:
html
CopyEdit
<div class="invisible">Hidden but occupies space</div>

z-index

Description: Control stacking order of elements.

Example:

html

CopyEdit

<div class="relative z-10">On top</div>

Flexbox & Grid

flex-basis

Description: Set the initial size of a flex item before growing/shrinking.

Example:

html

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```
<div class="flex">
  <div class="flex-basis-1/4 bg-red-300">Basis 25%</div>
  <div class="flex-1 bg-blue-300">Flex grow</div>
</div>
```

flex-direction

Description: Set the direction of flex items: row, row-reverse, column, column-reverse.

Example:

html

CopyEdit

<div class="flex flex-col">Vertical stack</div>

flex-wrap

Description: Control if flex items wrap onto multiple lines.

Example:

html

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<div class="flex flex-wrap">Wrapping flex items</div>

flex

Description: Set flex grow, shrink, and basis in shorthand.

Example:

html

CopyEdit

<div class="flex-1">Flexible item</div>

flex-grow

Description: Control how much a flex item grows relative to siblings.

Example:

html

CopyEdit

<div class="flex-grow">Grow to fill</div>

flex-shrink

Description: Control how much a flex item shrinks when needed.

Example:

html

CopyEdit

<div class="flex-shrink-0">Prevent shrinking</div>

order

Description: Control the order of flex/grid items.

Example:

html

grid-template-columns

Description: Define number and size of grid columns.

Example:

html

CopyEdit

<div class="grid grid-cols-3 gap-4">3 columns grid</div>

grid-column

Description: Control grid item's column start/end.

Example:

html

CopyEdit

<div class="col-span-2">Span 2 columns</div>

grid-template-rows

Description: Define number and size of grid rows.

Example:

html

CopyEdit

<div class="grid grid-rows-2 gap-2">2 rows grid</div>

grid-row

Description: Control grid item's row start/end.

Example:

html

CopyEdit

<div class="row-span-3">Span 3 rows</div>

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Description: Control auto-placement of grid items (row, column, dense).

Example:

html

CopyEdit

<div class="grid auto-flow-col gap-2">Auto flow columns</div>

grid-auto-columns

Description: Define size of implicitly created grid columns.

Example:

html

CopyEdit

<div class="auto-cols-max">Auto columns max size</div>

grid-auto-rows

Description: Define size of implicitly created grid rows.

Example:

html

CopyEdit

<div class="auto-rows-min">Auto rows min size</div>

gap

Description: Set gaps (gutters) between grid or flex items.

Example:

html

CopyEdit

<div class="grid grid-cols-3 gap-4">Grid with gap</div>

justify-content
Description: Align flex/grid items horizontally. Example:
html
CopyEdit
<div class="flex justify-center">Centered items</div>
justify-items
Description: Align grid items horizontally inside their cells. Example:
html
CopyEdit
<div class="grid justify-items-end">Items right aligned</div>
justify-self
Description: Align single grid item horizontally. Example:
html
CopyEdit
<div class="justify-self-center">Center self</div>
align-content
Description: Align flex/grid lines vertically within container. Example:
html

align-items

<div class="grid content-center h-64">Content centered</div>

Description: Align flex/grid items vertically. Example:
html
CopyEdit
<div class="flex items-center h-32">Items centered vertically</div>
align-self
Description: Align single flex/grid item vertically. Example:
html
CopyEdit
<div class="self-end">Self aligned to bottom</div>
place-content
Description: Shortcut for setting both align-content and justify-content. Example:
html
CopyEdit
<div class="place-content-center h-40">Content centered</div>
place-items
Description: Shortcut for align-items and justify-items. Example:
html
CopyEdit
<div class="place-items-center">ltems centered</div>
place-self

Description: Shortcut for align-self and justify-self. Example:
html
CopyEdit
<div class="place-self-end">Self aligned bottom right</div>
Spacing
padding
Description: Add space inside element (padding). Example:
html
CopyEdit
<div class="p-4">Padding all sides</div>
margin
Description: Add space outside element (margin). Example:
html
CopyEdit
<div class="m-6">Margin all sides</div>
Sizing
width
Description: Set element width. Example:
html
CopyEdit

min-width
Description: Set minimum width. Example:
html
CopyEdit
<div class="min-w-full">Min width 100%</div>
max-width
Description: Set maximum width. Example:
html
CopyEdit
<div class="max-w-xs">Max width extra small</div>
height
Description: Set element height. Example:
html
CopyEdit
<div class="h-24 bg-blue-300">Fixed height</div>
min-height
Description: Set minimum height. Example:
html
CopyEdit

<div class="min-h-screen bg-gray-100">Min height full viewport</div>

max-height
Description: Set maximum height. Example:
html
CopyEdit
<div class="max-h-40 overflow-auto">Max height 10rem</div>
Typography
font-family
Description: Set font family. Example:
html
CopyEdit
Sans serif font
font-size
Description: Set font size. Example:
html
CopyEdit
Large text
font-smoothing
Description: Control antialiasing for fonts. Example:
html

font-style	fo	nt-	st\	/le
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Description: Italicize or normal font style.

Example:

html

CopyEdit

Italic text

font-weight

Description: Set font weight (boldness).

Example:

html

CopyEdit

Bold text

font-stretch

Description: Control font width/stretch.

Example:

html

CopyEdit

Condensed font

font-variant-numeric

Description: Control numeric font variants like oldstyle or tabular.

Example:

html

CopyEdit

Old style numbers

letter-spacing	
Description: Adjust spacing between letters. Example:	
html	
CopyEdit	
Wide letter spacing	
line-clamp	
Description: Limit text lines with ellipsis overflow. Example:	
html	
CopyEdit	
This text is limited to 3 lines.	
line-height	
Description: Set line height (leading). Example:	
html	
CopyEdit	
Loose line height	
list-style-image	
Description: Set image for list bullets. Example:	
html	
CopyEdit	
<ul class="list-disc list-inside">Normal bullets	

list-style-position
Description: Control position of list bullets (inside or outside). Example:
html
CopyEdit
<ul class="list-inside">Bullets inside
list-style-type
Description: Set bullet style type. Example:
html
CopyEdit
<ul class="list-decimal">Numbered list
text-align
Description: Set horizontal text alignment. Example:
html
CopyEdit
<pre>Centered text</pre>
color
Description: Set text color. Example:
html
CopyEdit
<pre>Red text</pre>

text-decoration-line

Description: Set text decoration lines (underline, line-through). Example:
html
CopyEdit
Underlined text
text-decoration-color
Description: Set color of text decoration. Example:
html
CopyEdit
Red underline
text-decoration-style
Description: Set style of text decoration (solid, dashed). Example:
html
CopyEdit
Dashed underline
text-decoration-thickness
Description: Set thickness of text decoration. Example:
html
CopyEdit
Thick underline

text-underline-offset

Description: Offset underline position. Example:
html
CopyEdit
Offset underline
text-transform
Description: Control text case: uppercase, lowercase, capitalize. Example:
html
CopyEdit
Uppercase text
text-overflow
Description: Control overflowed text with ellipsis. Example:
html
CopyEdit
<div class="truncate w-48">Very long text truncated</div>
text-wrap
Description: Control text wrapping and breaking. Example:
html
CopyEdit
Break long words
text-indent

Description: Indent first line of text. Example:
html
CopyEdit
Indented paragraph
vertical-align
Description: Control vertical alignment of inline or table-cell elements. Example:
html
CopyEdit
Middle aligned text
white-space
Description: Control how white space inside text is handled. Example:
html
CopyEdit
No wrapping text
word-break
Description: Control line breaking inside words. Example:
html
CopyEdit
Break long words anywhere

overflow-wrap

Description: Control wrapping of long words to prevent overflow.

Example:

html

CopyEdit

Wrap long words

hyphens

Description: Control hyphenation of words.

Example:

html

CopyEdit

Auto hyphenation