

# Inline vs Block

Elements are naturally either:

- inline
  - they take up size based on content
  - CSS resizing highly limited
  - do not break the "flow" of text
- block
  - they will shift to fill width of container
  - height as needed by content
  - CSS resizing fully available
  - break flow before and after

Rules set by `display` property

# Notes about inline elements

- Do not break flow
  - means some sizing properties don't do anything

# Notes about Block elements

Take up full-width of container by default

- AND break flow

Breaking flow means changing the size alone won't stop it

# Notes about inline block elements

```
display: inline-block;
```

- Does not break flow
- Does allow for resizing

If you are changing `display`, it will tend to be to `inline-block` or one of the layout options

- Don't swap `inline` to `block` or vice-versa

# Notes about floating

`float: left;` (etc)

Used to have inline elements flow around it

- e.g. a paragraph of text wrapping around a small image

DO NOT USE TO FAKE LAYOUT

- was a common fix before flexbox/grids

# Why and What is Flexbox?

Base CSS is all based on how items align in flow

- no grouping outside of containers with flow
- everything based on the needs of content

Flexbox tries to fill the container with content

- in ONE dimension

# Weird Flex, but....

Core concept: Apply `display: flex;` to parent container

Flexbox will then distribute the space for and around the children

Additional changes are done either to

- the container
  - affects all children
  - or space between them
- to the children
  - affects that child

# Guides to Flexbox

Remember the difference between

- properties on parent
- properties on children

A handy game-tutorial

- **<https://flexboxfroggy.com/>**

CSS Tricks is always a great source:

- **<https://css-tricks.com/snippets/css/a-guide-to-flexbox/>**



# CSS Grids

CSS Grids allow you to control the placement of children within a container

- in TWO dimensions

Grids mimic the old table-based layouts, but without their pain

- because layout is (mostly) separate from structure

Children can be told to span multiple "cells" of the grid

Grids put the emphasis on the layout over the content

# How to Grid

Set parent container to `display: grid;`

- define template columns or rows
- can define areas

# Guides to CSS Grids

A game-tutorial

- **<https://cssgridgarden.com/>**

CSS Tricks

- **<https://css-tricks.com/snippets/css/complete-guide-grid/>**

Debugging with Chrome

- **<https://developers.google.com/codelabs/devtools-debug-css-grid#0>**

# Summary - Flow

- Text is inline
  - horizontal
  - wrapping
- Collected into blocks
  - includes vertical

Don't use `float` for layout!

# Summary - Flexbox

- Used to spread child elements in one direction
  - can wrap, but rare that you want to
- You can alter properties on parent, or on specific children

# Summary - CSS Grid

- Manage page in two dimensions
  - like a spreadsheet or table for layout
- Can specific areas by name
- More later