



CMPSC 302

WEB DEVELOPMENT



Taking a position

Today, we're concerned with four different values of the position property:

- * absolute

- * relative

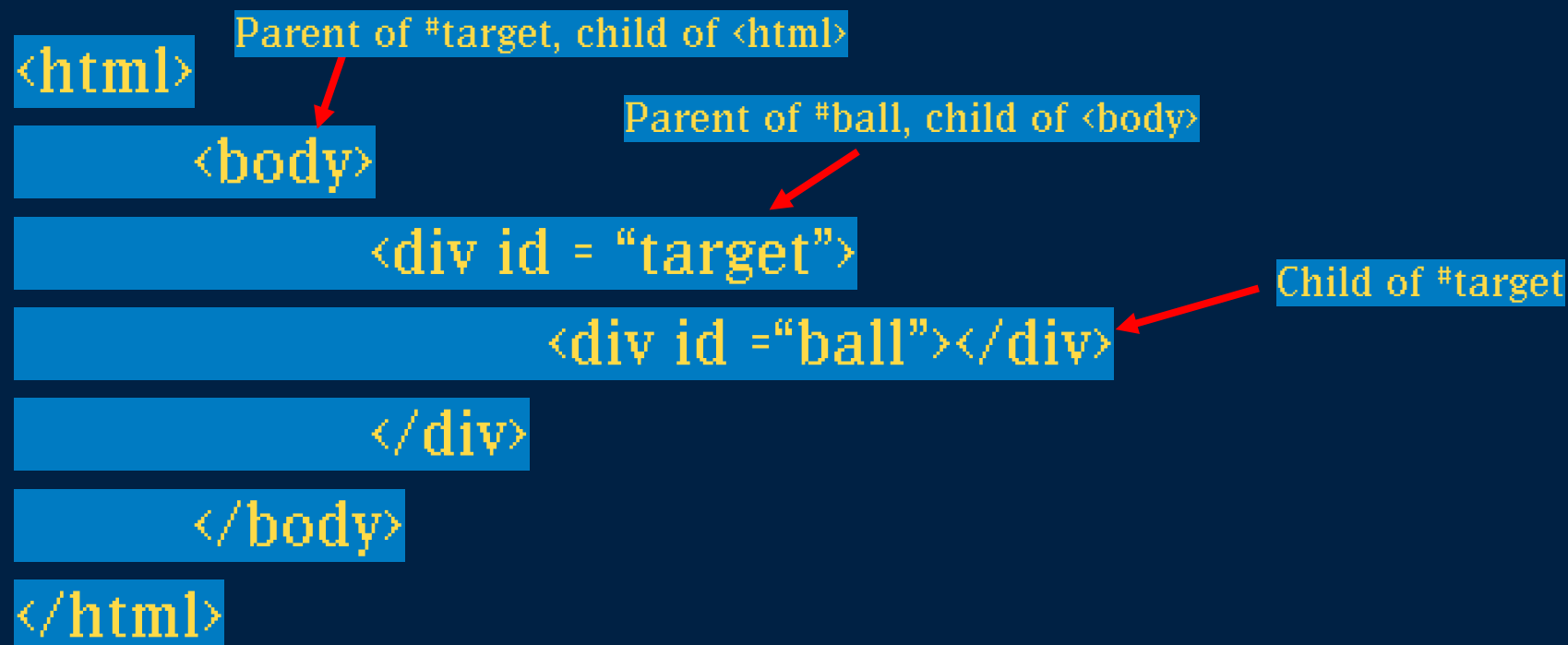
- * fixed

- * static



Getting to know your parents

* Today we're going to talk about the parent-child relationship





Absolute

- ✦ Positions based on the closest parent which has positioning
- ✦ Uses the margin, padding, et al., but also:
 - ✦ top
 - ✦ bottom
 - ✦ right
 - ✦ left



Relative

- * Positions element relative to itself
- * Gets no response from the “absolute” position
 - * top
 - * bottom



Static

- * Positions the element exactly where it is in the DOM
- * Gets no response from the “absolute” position properties
 - * top
 - * bottom
 - * left
 - * right



Fixed

- ✧ Positions the element relative to the screen
- ✧ Positions the element using “absolute” position properties
 - ✧ top
 - ✧ bottom
 - ✧ left
 - ✧ right



floating away

* Is implemented a bit differently:

```
float: left;
```

or

```
float:right;
```

* Remove float from affecting following elements by:

```
clear:left; or clear: right; or clear: both;
```




Positioning vs. layout

POSITIONING IS NOT LAYOUT



Getting on the grid

- * Most layouts are now done using “grid-based” approaches
- * This approach uses a different property which *is not* positioning:

```
display: grid;
```

- * Two properties specify grid column size/count and row size/count:

```
grid-template-columns: auto auto auto;
```

```
grid-template-rows: 33% 33% 33%;
```

} 3 columns of automatic size, 3 rows at 33% of content size



What's the difference?

floats, where I have to remember everything

grid, all handled automagically

CSS Zen Garden

The Beauty of CSS Design

A demonstration of what can be accomplished through CSS-based design. Select any style sheet from the list to load it into this page.

- Mid Century Modern by Andrew Lohman
- Steel by Steffen Kwoeller
- Screen Filler by Elliot Jay Stocks

The Road to Enlightenment

Archives

We must clear the mind of the past. Web enlightenment has been achieved thanks to the tireless efforts of folk like the W3C, WaaS, and the major browser creators.

Resources

So What is This About?

There is a continuing need to show the power of CSS. The Zen Garden aims to excite, inspire, and encourage participation. To begin, view some of the existing designs in the list. Clicking on any one will load the style sheet into this very page. The HTML remains the same, the only thing that has changed is the external CSS file. Yes, really.

CSS allows complete and total control over the style of a hypertext document. The only way this can be illustrated in a way that gets people excited is by demonstrating what it can truly be, once the reins are placed in the hands of those able to create beauty from structure. Designers and coders alike have contributed to the beauty of the web; we can always push it further.

Participation

Strong visual design has always been our focus. You are modifying this page, so strong CSS skills are necessary too, but the example files are commented well enough that even CSS novices can use them as starting points.

You may modify the style sheet in any way you wish, but not the HTML. This may seem daunting at first if you've never worked this way before, but follow the listed links to learn more, and use the sample files as a guide.

Benefits

Why participate? For recognition, inspiration, and a resource we can all refer to showing people how amazing CSS really can be. This site serves as equal parts inspiration for those working on the web today, learning tool for those who will be tomorrow, and gallery of future techniques we can all look forward to.

Requirements

Where possible, we would like to see mostly CSS 1 & 2 usage. CSS 3 & 4 should be limited to widely-supported elements only, or strong fallbacks should be provided. The CSS Zen Garden is about functional, practical CSS and not the latest bleeding-edge tricks viewable by 2% of the browsing public. The only real requirement we have is that your CSS validates.

Luckily, designing this way shows how well various browsers have implemented CSS by now. When sticking to the guidelines you should see fairly consistent results across most modern browsers. Due to the sheer number of user agents on the web these days — especially when you factor in mobile — pixel-perfect layouts may not be possible across every platform. That's okay, but do test in as many as you can. Your design should work in at least IE9+ and the latest Chrome, Firefox, iOS and Android browsers (run by

Select a Design:

- Mid Century Modern by Andrew Lohman
- Garments by Dan Mall
- Steel by Steffen Kwoeller
- Apothecary by Trent Walton
- Screen Filler by Elliot Jay Stocks
- Fountain Kiss by Jeremy Carlson

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- Next Designs »

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- View This Design's CSS

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The CSS Zen Garden invites you to relax and meditate on the important lessons of the masters. Begin to see with clarity. Learn to use the time-honored techniques in new and invigorating fashion. Become one with the web.

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What's the difference

- * float is not meant to change the layout or “flow” of the DOM
- * It's good at in-element wrapping of text around a picture, at al:



Attack feet behind the couch destroy couch
flop over give attitude hide when guests
come over hopped up on goofballs hunt
anything that moves sweet beast under the
bed claw drapes leave dead animals as gifts,
make muffins chase mice swat at dog inspect
anything brought into the house flop over
need to chase tail shake treat chew ipad power cord why must they
do that.



What's the difference

* Grids are very good at distributing page content:

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