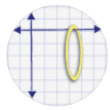


perpendicular angel design

organizing and simplifying, one illumination at a time

AN EVENT APART OT 2021: OUR STYLISH FUTURE BY HUI JING CHEN

Next up: Hui Jing Chen demonstrates and discusses CSS styling methods. Because this year I used Twitter's threading / topics feature, it's giving me 2 tweets in each embed I do here. I'm embedding every other tweet for readability. There's a PDF at the bottom of the page in case this all collapses.



Anne Gibson @perpendicularme · Oct 11, 2021

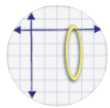


Replying to @perpendicularme

Next up, Hui Jing Chen for Our Stylish Future. This is heavy on the styles in CSS.

CSS will be 25 years old soon. It's the go-to method for doing web layouts. Over 500 (hope I heard that right) properties.

[#aeaot](#)



Anne Gibson

@perpendicularme

We can do responsive text, scroll snaps, sticky elements, masonry layouts, and container queries now with modern CSS. [#aeaot](#)

12:19 PM · Oct 11, 2021



1

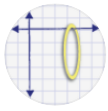


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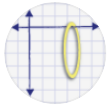


Anne Gibson @perpendicularme · Oct 11, 2021



Replying to @perpendicularme

Lots of live demos in this talk. If you feel like you're missing out, check [@aneventapart](#) and join in. [#aeaot](#)



Anne Gibson

@perpendicularme

Technique 1 for responsive text: media queries. You have very granular control over the font sizes at each viewport.

What if we let our text grow and shrink smoothly and dynamically? When viewport units were introduced for sizing purposes, that became option 2.

[#aeaot](#)

12:22 PM · Oct 11, 2021



1

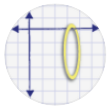


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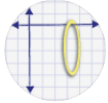


Anne Gibson @perpendicularme · Oct 11, 2021



Replying to @perpendicularme

Media queries allow you to limit font scaling in this technique - set a max and a min, and let it grow as it goes. This is essentially using the breakpoints and the minimum and max, then running a calc to set the font size. [#aeaot](#)



Anne Gibson

@perpendicularme

check out the clamp() function for setting the minimum, preferred value, and maximum value. This allows us to do what option 2 did but with a much more simplified syntax, and that's option 3.

[omg i'm about to start some typography work and i think i want to try this] [#aeaot](#)

12:24 PM · Oct 11, 2021



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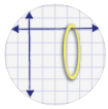


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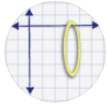
Anne Gibson @perpendicularme · Oct 11, 2021



Replying to @perpendicularme

**using viewport units for font sizing has the risk of accessibility issues. ** you could fail WCAG success criterion 1.4.4 for text resizing. [w3.org/WAI/WCAG21/qui...](https://www.w3.org/WAI/WCAG21/quickref/)

Browsers use proportional scaling to zoom. When we zoom that way the viewport size decreases. [#aeaot](#)



Anne Gibson

@perpendicularme

[well heck, that makes option 1 the best — safest — one for my typography work for work] [#aeaot](#)

12:27 PM · Oct 11, 2021



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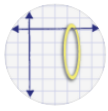


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Anne Gibson @perpendicularme · Oct 11, 2021



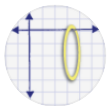
Replying to @perpendicularme

Scroll snap! [#aeaot](#)

1. Don't scroll jack [or you might make your user with migraines or vestibular disorders puke on her shoes]

2. Check scroll snap type and scroll snap align for the elements within a container.

[3. i hate when ppl mess with scroll so know my biases.]



Anne Gibson

@perpendicularme

Mandatory scroll-snap-type is a strict snap point, which can be good for keyboard navigation.

Proximity scroll-snap-type snaps her when you get near the edge.

you can specify the axis within the syntax as well.

[#aeaot](#)

12:31 PM · Oct 11, 2021



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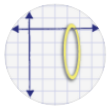


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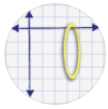
Anne Gibson @perpendicularme · Oct 11, 2021



Replying to @perpendicularme

Sticky elements with position: sticky. Not super new, but this is a pattern that's fairly regular. CSS for it is pretty well supported, don't need to use javascript to do it anymore.

It can be confusing when it doesn't work. [#aeaot](#)



Anne Gibson

@perpendicularme

position: sticky is between a relatively positioned box and a fixed position box in technique. position:sticky must have an offset position (top: 1em for example)

the offset will never push the sticky box outside the containing block but the box will move as if pinned.

[#aeaot](#)

12:34 PM · Oct 11, 2021



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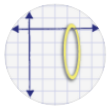


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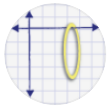
Anne Gibson @perpendicularme · Oct 11, 2021



Replying to @perpendicularme

[yeah, this one's definitely hard to describe w/o the video.] you should check to see if your constraining value (the top / bottom / right / left value you set earlier) is the problem.

[#aeaot](#)



Anne Gibson

@perpendicularme

Why doesn't left:0 work? The container block is scrolled away. The container may need to be longer/wider if you're seeing "sticky" isn't working properly.

[#aeaot](#)

12:37 PM · Oct 11, 2021



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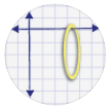


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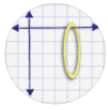


Anne Gibson @perpendicularme · Oct 11, 2021



Replying to @perpendicularme

Rachel Andrew is working on masonry layout with the CSS spec folks, and she got us CSS grid, so it's probably going to happen.
[#aeaot](#)



Anne Gibson

@perpendicularme

Option 1, the old way to do it, you end up with a top to bottom layout. stuff goes top to bottom then left to right. (Think newspaper columns.) important content may be at the bottom. What if you want to do across columns? Also, there's no spanning 2 cols, 'all' is option
[#aeaot](#)

12:44 PM · Oct 11, 2021



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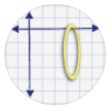


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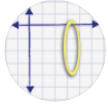


Anne Gibson @perpendicularme · Oct 11, 2021



Replying to @perpendicularme

put 'masonry' as the grid-template-columns value. Content is free to span multiple columns with rowspan. it's a horizontal layout. [#aeaot](#)



Anne Gibson

@perpendicularme

Option 3 is to do same masonry layout vertically instead of horizontally. [There are additional masonry options that Hui Jing is describing but i can't type that fast. ;)]

[#aeaot](#)

12:46 PM · Oct 11, 2021

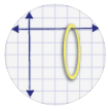


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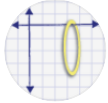


Anne Gibson @perpendicularme · Oct 11, 2021



Replying to @perpendicularme

Implementation in the CSS specification is still really early. (Remember how grid changed a bunch of times? We're in that stage right now for masonry) Provide use cases to the CSS working group after you play with it. [#aeaot](#)



Anne Gibson

@perpendicularme

Container queries! Miriam will also cover this. (Teamwork!) The ability to change things based on the size of the parent's layout (not the viewport) is the goal. It was definitely not easy to build because of how browsers work. [#aeaot](#)

12:48 PM · Oct 11, 2021

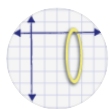


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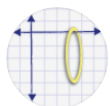
Anne Gibson @perpendicularme · Oct 11, 2021



Replying to @perpendicularme

Container queries are only in chrome canary and you have to turn on the feature flag for this one.

The container-type property (or container if using shorthand) controls this. [#aeaot](#)



Anne Gibson

@perpendicularme

The parent container has a container type and the query itself uses a media query like style for writing up the context. Size is what's working right now, more to come as the spec develops. [#aeaot](#)

12:51 PM · Oct 11, 2021

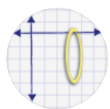


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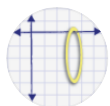
Anne Gibson @perpendicularme · Oct 11, 2021



Replying to @perpendicularme

if the parent has query for container on it, the children can then respond accordingly. I don't have to worry about where a child shows up as long as its parent has container queries. This makes the child easier to implement universally across the site.

[#aeaot](#)



Anne Gibson

@perpendicularme

Style and state queries are coming. "Is this sticky positioned container stuck? Is this box visible on the screen?" These will be very valuable. [#aeaot](#)

12:54 PM · Oct 11, 2021



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Josh "The Vax" Vickerson

@joshvickerson



.[@hj_chen](#) showing us an implementation of masonry layout using CSS multi-column layout. It's also coming to level 3 of the CSS grid spec 🙌

CSS-native masonry layouts? Yes please! [#AEAOT](#)

12:46 PM · Oct 11, 2021



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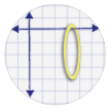


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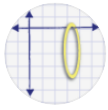


Anne Gibson @perpendicularme · Oct 11, 2021



Replying to @perpendicularme

Style and state queries are coming. "Is this sticky positioned container stuck? Is this box visible on the screen?" These will be very valuable. [#aeaot](#)



Anne Gibson

@perpendicularme

new CSS properties will help us remove our workarounds and cut down the number of times we must use javascript. Provides us with more options. It's the context of which your project operates. [#aeaot](#)

12:58 PM · Oct 11, 2021



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