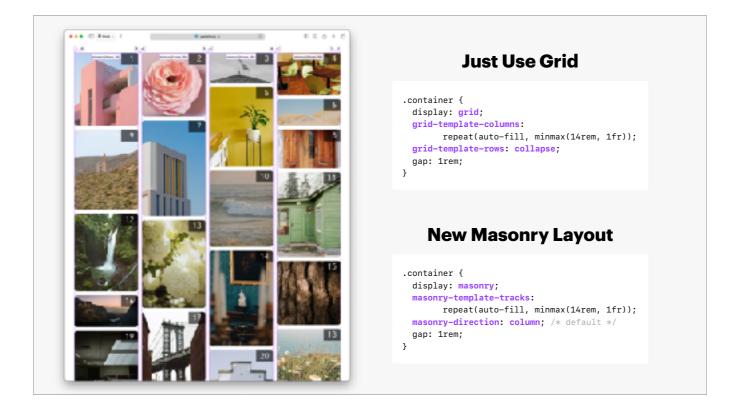


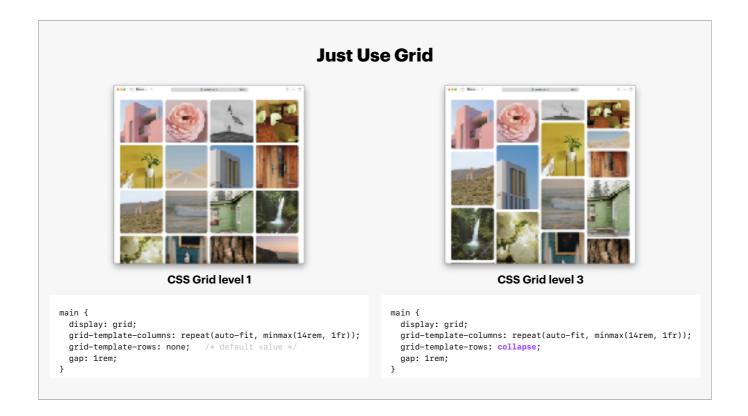
Let's decide — shall we Just Use Grid or create a whole new Masonry Layout mode?

Just Use Grid	New Masonry Layout
<pre>.container {    display: grid;    grid-template-columns:         repeat(3, 1fr);    grid-template-rows: masonry;    gap: 10px; }</pre>	<pre>.container {    display: masonry;    masonry-template-tracks:         repeat(3, 1fr);    masonry-direction: column;    gap: 10px; }</pre>

At this point, the decision is about syntax. About the mental model. The <u>functionality</u> is identical either way.



To get the layout on the left, in both we I▶ declare the display type on the container, I▶ define the column sizes, I▶ specify which axis gets the masonry-style packing, I▶ and create a gap.

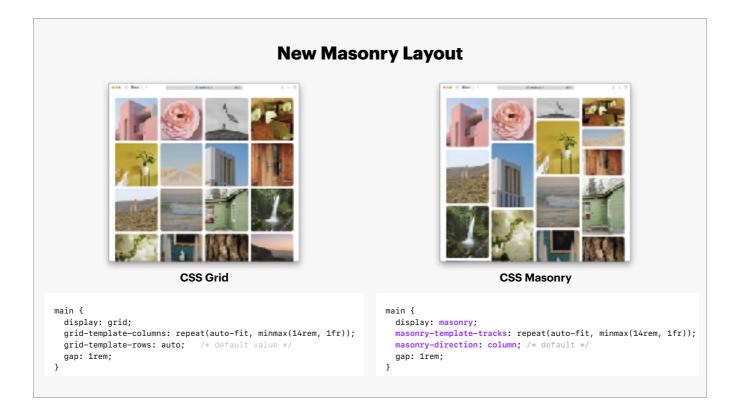


The choice to Just Use Grid is a choice to extend Grid level 1 to now be able to create the kind of packing made popular in masonry / waterfall frameworks.

On the left, we've got CSS Grid.

On the right, we add one new value and now Grid has more power.

(BTW "collapse" is just a suggestions for the value — we can bike shed it later).



The choice to create a new layout type called Masonry is a choice to add a whole new layout mode — Grid, Flexbox, Block layout... and now Masonry.

It's a separate tool, with new syntax that mimics what authors already know, but it's not the same.

rid	display: grid	out	display: masonry
C	grid-template-columns/grid-template-rows	ayc	masonry-template-tracks
Use	grid-template-rows: collapse/ grid-template-columns: collapse	ry La	mesonry-direction: column/ mesonry-direction: row
ust	grid-template-areas	ason	masonry-template-areas
-	grid-template	35	masonry-template
	grid-auto-flow	M	masonry-direction
		ex	masonry-fill
		Z	masonry-flow
	gap		gap
	grid-colum-start/grid-row-start		masonry-track-start
	grid-colum-end/grid-row-end		masonry-track-end
	grid-colum/grid-row		masonry-track
	grid-auto-columns/grid-auto-rows		masonry-auto-tracks
	grid		masonzy
	grid-slack (name TBC)		masonry-slack (name TBD)

If we just use Grid, we'll add 1 new value, and 1 new property.

(Anything new to CSS is marked here in blue.)

If we create a new Masonry Layout mode, we'll be adding 1 new value and 12 new properties to CSS.

We believe there's just not a compelling enough argument to warrant adding all of these new properties. But let's dig into it...

ŗ	display: grid	E E	display: masonry
0	grid-template-columns/grid-template-rows	ayo	masonry-template-tracks

Both use the `display` property to get things started.

Use Grid			
	grid-template-columns/grid-template-rows	ayo	masonry-template-tracks
	grid-template-rows: collapse/ grid-template-columns: collapse	onry L	masonry-direction: column/ masonry-direction: row

With the template properties you define track sizes.

Use Gr	grid-template-columns/grid-template-rows	ayo	masonry-template-tracks
	grid-template-rows: collapse/ grid-template-columns: collapse		masonry-direction: column/ masonry-direction: row
ust.	grid-template-areas	u U	masonry-template-areas

To specify which dimension gets packed masonry-style in Grid, you "collapse" the content together by declaring so in the appropriate track definition.

In the new Masonry Layout, you instead use `masonry-direction`.

949	242
grid-colum-start/grid-row-start	masonry-track-start
grid-column-end/grid-row-end	masonzy-track-end
grid-colum/grid-row	masonzy-track
grid-auto-columns/grid-auto-rows	masonry-auto-tracks

They both have ways to define explicit placement of content...

grid-slack (name TBD)	masonry-slack (name TED)	
grid	masonzy	

Both have a new `slack` property that adjusts how picky the browser is when selecting the next space in which to place an item.

-	grid-slack (name TBD)	masonry-slack (rome TBD)
	grid	nasoney
	grid-auto-columns/grid-auto-rows	masonry-auto-tracks
•	grid-colum-start/grid-row-start	masonry-track-start
	gap	gap

Both options support the `gap` property. Both have an extra-short hand.

_	grid-colum/grid-row		masonry-track
Γ	grid-auto-columns/grid-auto-rows		masonry-auto-tracks
	grid		nasoney

Both have a way to size implicit tracks.

	grid-auto-flow	ι N	masonry-direction
			masonry-fill
			masonzy-flow
I	940		\$40

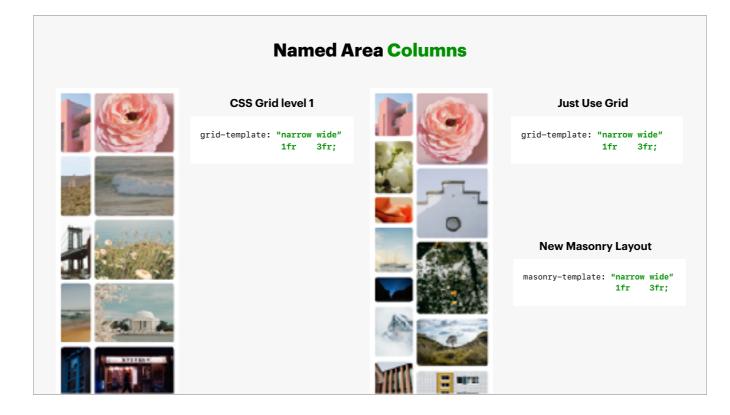
Here's a more significant difference... There are three new properties in Masonry — masonry-direction, fill and flow that cover the functionality that's covered in CSS Grid by `grid-auto-flow` — to control how the auto-placement algorithm works.

Chrome argues that masonry-direction, fill and flow will be more understandable than grid-auto-flow. That without making this change authors will be confused.

We don't agree. We believe that since it does the same thing it does for CSS Grid, authors will understand it. If they learned Grid, they already know it.

Just	grid-template-areas	E C	masonry-template-areas
- 5	grid-template	ason	masonry-template
-	grid-auto-flow	/ N	masonry-direction

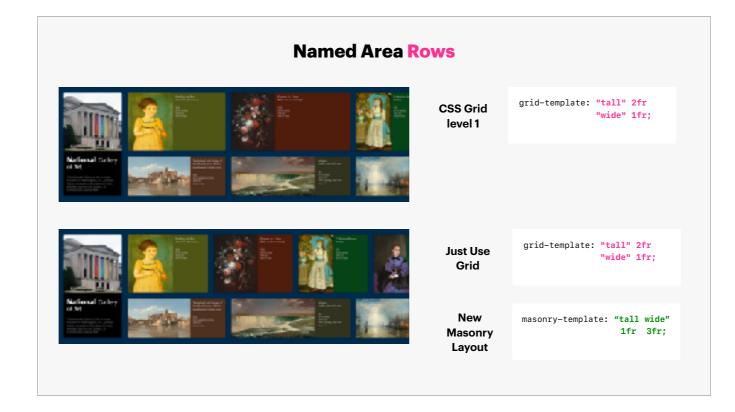
Both have the ability to define named areas, including with the 'ascii art' technique. But there's also a difference here.



In CSS Grid, if you want to create a "narrow" 1fr column &

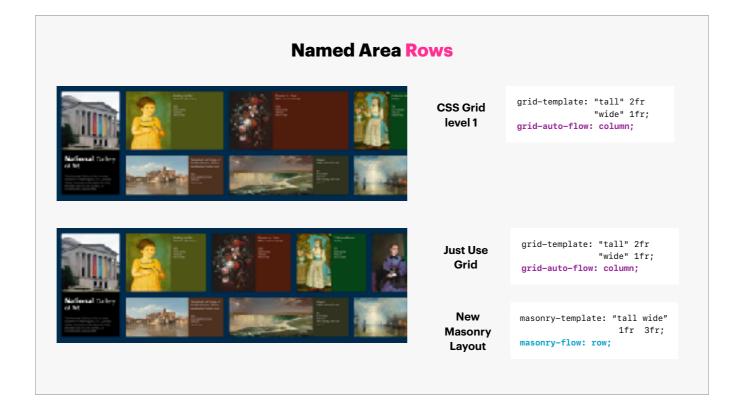
a "wide" 3fr column — you can use this syntax, effectively diagramming the names and sizes of the columns.

► For both the Just Use Grid and New Masonry Layout options, the syntax is identical to Grid — when defining columns.



I► For laying out rows, Grid's template syntax is a little different, stacking the area names to diagram the names and sizes of the rows. I► When switching to a masonry-style packing, Just Use Grid reuses this syntax exactly.

▶ New Masonry Layout, however, sticks with the named columns template syntax. Chrome argues that using the same syntax in both axes is better. We believe matching the existing Grid template API is better.



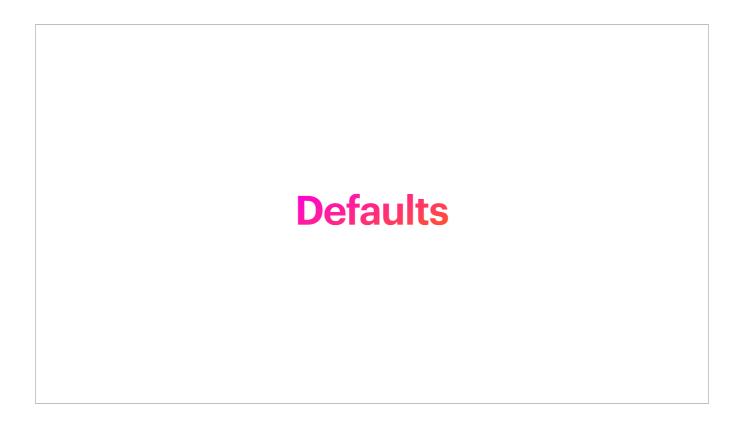
You can also see the difference between `grid-auto-flow` vs `masonry-flow`, (with it's `masonry-fill` & `masonry-direction` longhands) in this example.

Flexbox's `flex-flow` property indicates both the orientation of lines as well as the primary placement axis. But in Masonry, these two axes are different. Grid's `grid-auto-flow` value indicates the primary fill direction; and Just Use Grid follows this convention. Chrome argues that the flow value should indicate the orientation of lines, rather than placement, so they've changed it to `masonry-flow: row`. This might not be an unreasonable idea, but is it worth creating an entire new layout system for such tweaks?

rid	display: grid	out	display: masonry
C	grid-template-columns/grid-template-rows	ayc	masonry-template-tracks
Use	grid-template-rows: collapse/ grid-template-columns: collapse	ry Lé	mesonry-direction: column/ mesonry-direction: row
Just	grid-template-areas	ason	masonry-template-areas
ī	grid-template	30	masonry-template
	grid-auto-flow	N N	masonry-direction
		OV	mesonry-fill
		Ž	masonry-flow
	gap		94p
	grid-column-start/grid-row-start		masonry-track-start
	grid-column-end/grid-row-end		masonry-track-end
	grid-colum/grid-row		masonry-track
	grid-auto-columns/grid-auto-rows		masonry-auto-tracks
	grid		nasonzy
	grid-slack (name TBD)		masonry-slack (name TBC)

Overall — there's a lot of new syntax being proposed in New Masonry layout — most of which does the same thing. But some of which is subtly different in a way that's likely to trip people up.

Adding Masonry-style features to CSS is not an opportunity to fork Grid and rewrite past decisions. Authors will just get frustrated and confused.



Chrome argues that the new syntax is worth the effort because it creates better defaults. We do not believe their proposed defaults are actually that useful. And that it's not worth it to create a whole new display type to change the defaults.



Specifically, there's an idea that all an author would have to write is `display: masonry` and they would get a typical Pinterest style layout with just that one line of code. We wrote several thousand words in our article walking through how auto sizing would affect the layout and showing that it's not actually a very useful default. It just moves the responsibility for sizing to the items, and often leaves authors in a very hard to understand state. Understanding `auto` sizing is the hardest thing in CSS, and authors do not understand it.

## Just Use Grid

- Very simple just adds one new value
- Re-uses existing syntax, less to memorize
- Shared mental model from Grid level 1 makes it easier to learn
- And easier to switch between (in Feature Queries, at breakpoints, for progressive enhancement, etc) — a signal it fits into the design of CSS
- Follows CSS design principles to reuse what already exists

We want to Just Use Grid. It's very simple. It just adds one new value.

It re-uses existing syntax, making for far less for authors to memorize.

Using a shared mental model from Grid level 1 makes it easier to learn.

And using a shared mental model with Grid level 1 makes it easier to switch between Grid 1 and the new capabilities in Feature Queries, at breakpoints, for progressive enhancement. That's a signal it fits into the design of CSS.

And it follows CSS design principles to reuse what already exists.