

# Grids *All The Way* Down

@rachelandrew at Pixel Pioneers

# Doing things on the web since 1996

Co-founder **Perch CMS** & **Notist**. Editor in Chief **Smashing Magazine**. Writer of many books. **CSS Working Group** Member representing **Fronteers**. Spec editor **Multicol** and Page Floats. **MDN** tech writer.

# CSS Grid Layout

Two years on.

“I can make flexbox do  
*anything*. Why should I learn  
grid?”

People on Twitter.

“Should I use colour in this web design, or will fonts do?”

A question nobody asks.

“Should I build my site  
using Flexbox **or** Grid?”

A question I am asked almost daily.

Stop thinking about  
Flexbox & Grid as two  
separate layout methods

Should I build my site  
using Flexbox or Grid?

YES.



# CSS Flexible Box Layout Module - CR

Method of positioning elements in horizontal or vertical stacks. Support includes all properties prefixed with `flex`, as well as `display: flex`, `display: inline-flex`, `align-content`, `align-items`, `align-self`, `justify-content` and `order`.

Usage	% of all users		
Global	94.89%	+ 3.34%	= 98.24%
unprefixed:	94.52%	+ 2.29%	= 96.82%
U.K.	93.13%	+ 2.78%	= 95.91%
unprefixed:	92.35%	+ 2.06%	= 94.41%

Current aligned	Usage relative	Date relative	Apply filters	Show all	?				
IE	Edge *	Firefox	Chrome	Safari	iOS Safari *	Opera Mini *	Chrome for Android	UC Browser for Android	Samsung Internet
			71						
	17	65	72		11.4				4
11	18	66	73	12	12.1	all	71	11.8	8.2
		67	74	12.1	12.2				
		68	75	TP					
			76						

Notes Known issues (9) Resources (13) Feedback

Most partial support refers to supporting an *older version* of the specification or an *older syntax*.  
 1 Partial support is due to large amount of bugs present (see known issues)

# CSS Grid Layout (level 1) - CR

Method of using a grid concept to lay out content, providing a mechanism for authors to divide available space for layout into columns and rows using a set of predictable sizing behaviors. Includes support for all `grid-*` properties and the `fr` unit.

Usage	% of all users		
Global	89.42%	+ 2.56%	= 91.98%
unprefixed:	89.42%		
U.K.	89.1%	+ 2.39%	= 91.49%
unprefixed:	89.1%		

Current aligned	Usage relative	Date relative	Apply filters	Show all	?				
IE	Edge *	Firefox	Chrome	Safari	iOS Safari *	Opera Mini *	Chrome for Android	UC Browser for Android	Samsung Internet
			71						
	17	65	72		11.4				4
11	18	66	73	12	12.1	all	71	11.8	8.2
		67	74	12.1	12.2				
		68	75	TP					
			76						

Notes Known issues (3) Resources (13) Feedback

See also support for *subgrids*.  
 2 Partial support in IE refers to supporting an *older version* of the specification.

# Look at the pattern you need to build.

That will tell you which layout method you need.

Flexbox when you have a bunch of different size stuff you want displayed in a readable way.

Bristol Bombay

Douglas C-26

Vickers Victoria

Cessna 172 Skyhawk

Short Stirling

Gloster IV

Airbus A380

**Grid for when you want  
to control the structure  
and place items into it.**

Bristol Bombay

Douglas C-26

Vickers Victoria

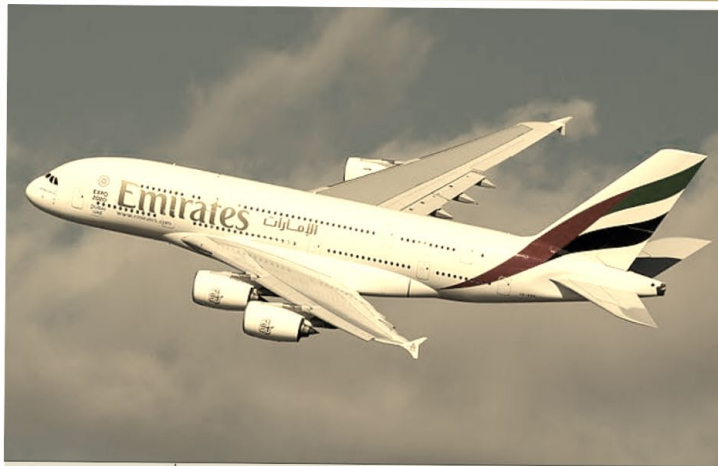
Cessna 172 Skyhawk

Short Stirling

Gloster IV

Airbus A380

If you are putting widths on all your flex items to make them line up. You probably want grid.



**Airbus  
A380**

The Airbus A380 is the world's largest passenger airliner.



**Short  
Stirling**

The Short Stirling was a British four-engine heavy bomber of WW2



**Cessna 172**

The Cessna 172 is a four seat, single engine aircraft.





de Havilland  
Canada  
DHC-3 Otter

The de Havilland Canada DHC-3 Otter is a single-engined, high-wing, propeller-driven, short take-off and landing (STOL) aircraft.



Fokker F27  
Friendship

The Fokker F27 Friendship is a turboprop airliner developed and manufactured by the Dutch aircraft manufacturer Fokker.



Airbus  
A380

The Airbus A380 is the world's largest passenger airliner.



Short Stirling

The Short Stirling was a British four-engined heavy bomber of WW2



Cessna 172

The Cessna 172 is a four seat, single engine aircraft.

```
/* flex */
.airplanes {
  display: flex;
  flex-wrap: wrap;
}

.airplanes li {
  flex: 1 1 400px;
  height: 45vh;
  margin: 2vh 10px;
}
```

```
/* grid */
.airplanes {
  display: grid;
  grid-gap: 5vh;
  grid-template-columns:
    repeat(auto-fill, minmax(400px, auto));
  grid-auto-rows: 45vh;
}
```



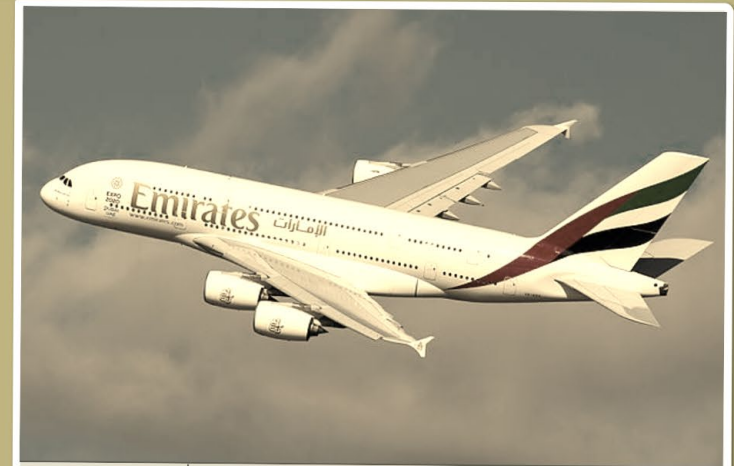
de Havilland  
Canada  
DHC-3 Otter

The de Havilland Canada DHC-3 Otter is a single-engined, high-wing, propeller-driven, short take-off and landing (STOL) aircraft.



Fokker F27  
Friendship

The Fokker F27 Friendship is a turboprop airliner developed and manufactured by the Dutch aircraft manufacturer Fokker.



Airbus  
A380

The Airbus A380 is the world's largest passenger airliner.



Short  
Stirling

The Short Stirling was a British four-engined heavy bomber of WW2



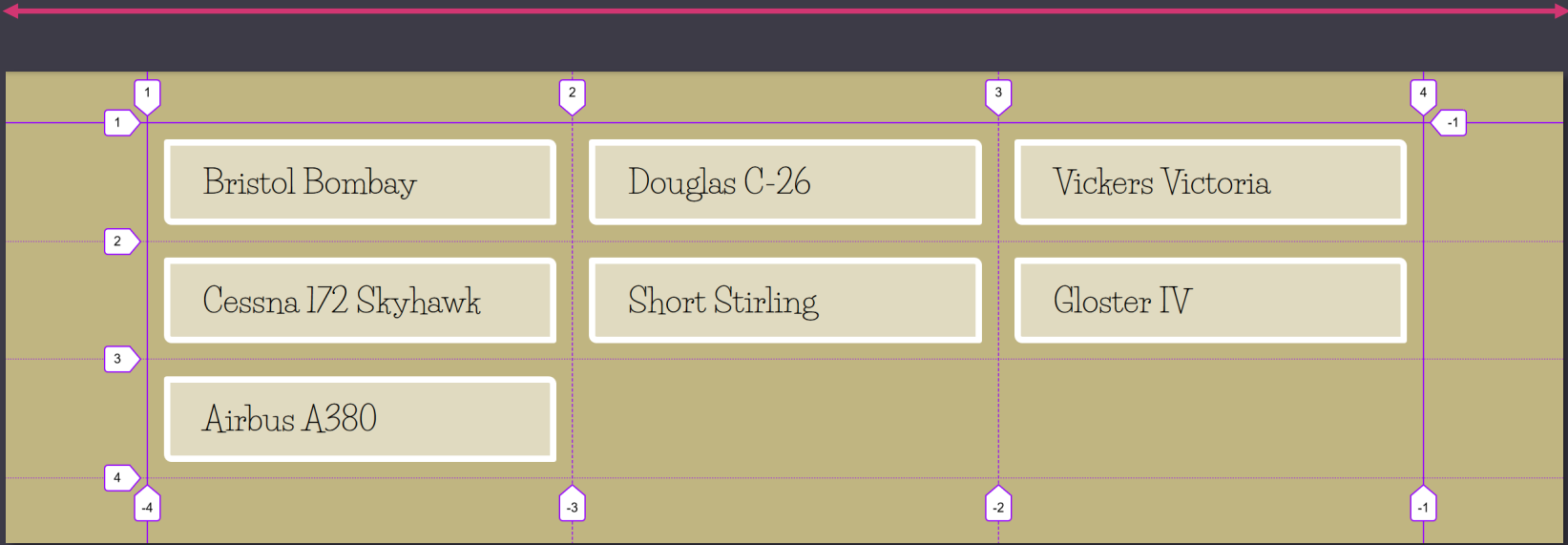
Cessna  
172

The Cessna 172 is a four seat, single engine aircraft.

# Two-dimensional

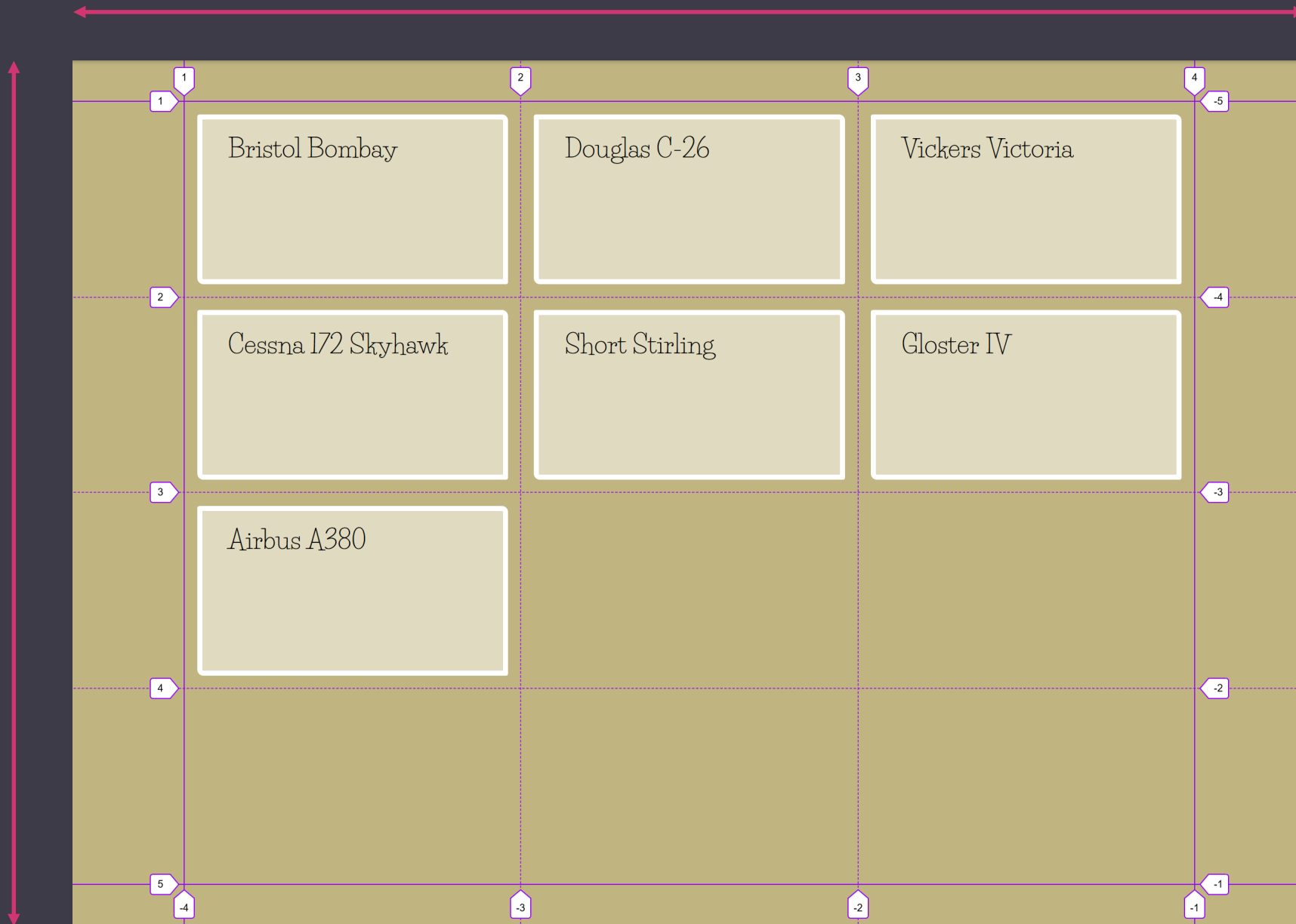
Grid works in the same way in both axes.

Inline dimension: the grid fills the grid container



Block dimension:  
as tall as is  
needed for the  
content.

# Inline dimension: the grid fills the grid container



Block dimension:  
the grid fills the  
grid container

One	Two	Three
Four	Five	
Six		

```
.grid {  
  display: grid;  
  grid-template-columns: repeat(3, 1fr);  
  grid-template-rows: repeat(3, 100px);  
  gap: 5px;  
}
```



```
.grid {  
  display: grid;  
  grid-template-columns: repeat(3, 1fr);  
  grid-template-rows: repeat(3, 100px);  
  gap: 5px;  
}
```





```
.grid {  
  display: grid;  
  grid-template-columns: repeat(3, 1fr);  
  grid-template-rows:  
    repeat(3, minmax(100px, auto));  
  gap: 5px;  
}
```

# We have choices now!

Enjoy them, they have been a long time coming.



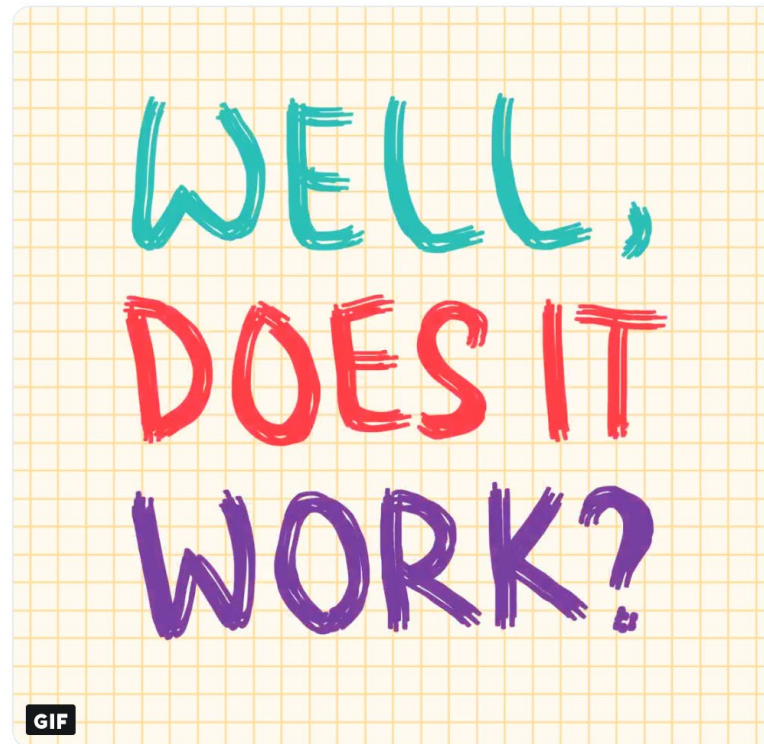
Meowlivia\_

@meowlivia\_

Follow



A quote by [@rachelandrew](#) during her workshop. This is her response when someone expressed concern about whether they're using CSS Grid correctly. I'm so happy about this! I always feel like I'm not utilizing CSS Grid "the right way" but it works... so... 🙄 😊



12:59 PM - 12 May 2019

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Extension for Chrome and Microsoft Edge Insider to run accessibility testing on webpages and web applications

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## Windows

Windows application to run accessibility testing on other Windows applications

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I'm Rachel Andrew. I'm a web developer, writer, public speaker. Co-founder of Percy CMS and Notist. Member of the CSS Working Group. Editor in Chief of Smashing Magazine. This is my website.



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# What can't we do yet?



de Havilland  
Canada DHC-3  
Otter

The de Havilland Canada DHC-3 Otter is a single-engined, high-wing, propeller-driven, short take-off and landing (STOL) aircraft.



Airbus A380

The Airbus A380 is the world's largest passenger airliner.



Fokker F27  
Friendship

The Fokker F27 Friendship is a turboprop airliner developed and manufactured by the Dutch aircraft manufacturer Fokker.



Short  
Stirling

The Short Stirling was a British four-engined heavy bomber of WW2



de Havilland  
Canada DHC-3  
Otter

The de Havilland Canada DHC-3 Otter is a single-engined, high-wing, propeller-driven, short take-off and landing (STOL) aircraft.

```
figure {  
  display: grid;  
  height: 100%;  
  grid-template-columns: 1fr 3fr;  
  grid-template-rows:  
    1fr minmax(1em, auto);  
}
```



**Only direct children  
become grid or flex items.**

Their children return to normal flow.

## The following content uses block and inline layout

Block elements extend to fill the container in the inline direction. They break onto a new line. Any inline elements such as a **span** do not break onto a new line.



### Media Object

Content inside the flex item returns to normal flow layout.

Unless you change the value of display, elements continue to display using these block and inline rules.



de Havilland  
Canada DHC-3  
Otter

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1

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Havilland  
Canada  
DHC-3  
Otter

The de Havilland DHC-3 Otter is a  
single-engine, high-wing, propeller-driven,  
short take-off and landing (STOL) aircraft.

3



2

Airbus  
A380

The Airbus A380-800 is the world's largest passenger  
airliner.

4



Fokker F27  
Friendship

The Fokker F27 Friendship is a turboprop  
airliner developed and manufactured by the  
Dutch aircraft manufacturer Fokker.

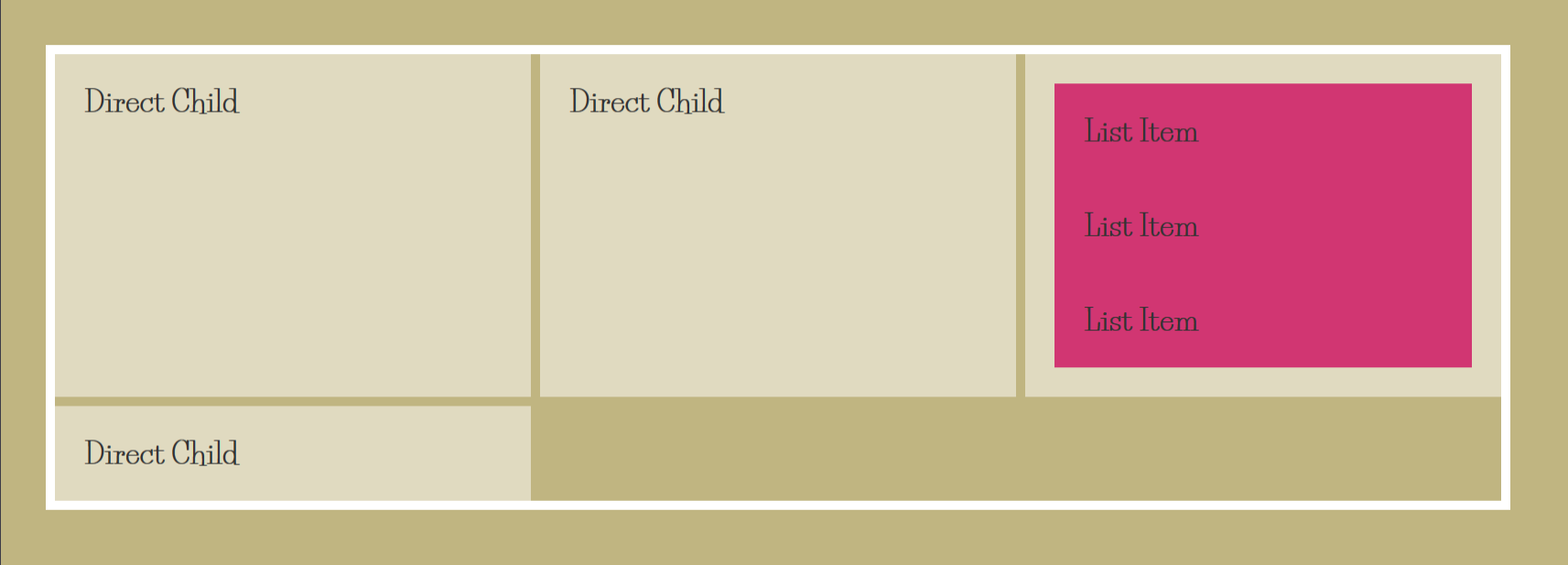


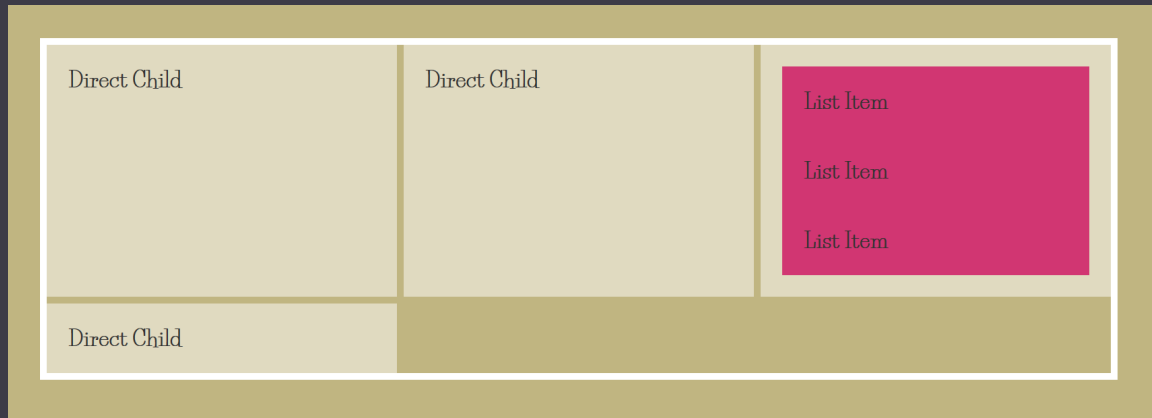
Short  
Stirling

The Short Stirling was a British four-engine  
heavy bomber of WW2

# display: contents

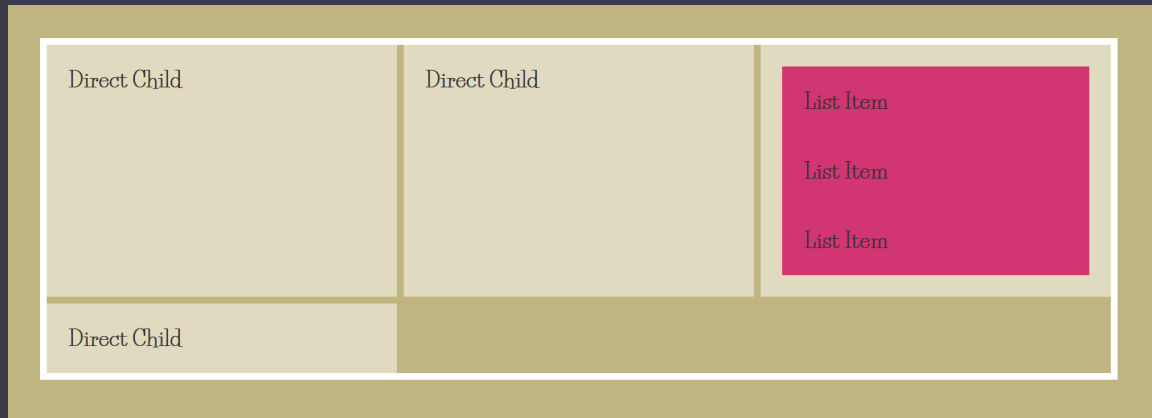
Removing the box from the layout.



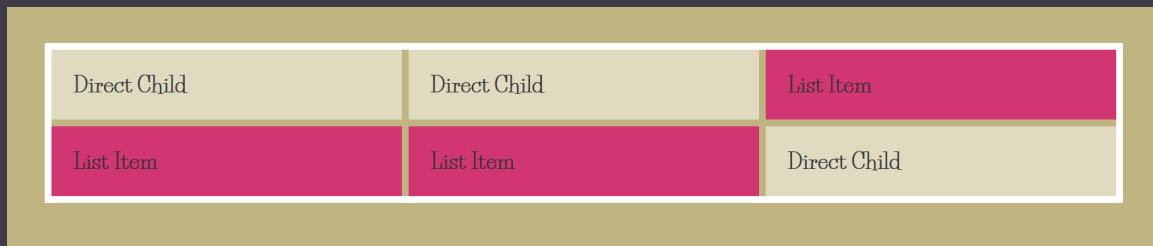


```
<!--HTML-->
<div class="grid">
  <div>Direct Child</div>
  <div>Direct Child</div>
  <ul>
    <li>List Item</li>
    <li>List Item</li>
    <li>List Item</li>
  </ul>
  <div>Direct Child</div>
</div>
```





```
/* CSS */  
.grid {  
  display: grid;  
  grid-template-columns: repeat(3, 1fr);  
}  
  
.grid > * {  
  background-color: rgba(255,255,255,.5);  
}  
  
ul > * {  
  background-color: rgb(209,54,114);  
}  
  
ul {  
  
}
```



```
/* CSS */
.grid {
  display: grid;
  grid-template-columns: repeat(3, 1fr);
}

.grid > * {
  background-color: rgba(255,255,255,.5);
}

ul > * {
  background-color: rgb(209,54,114);
}

ul {
  display: contents;
}
```

More accessible markup with `display: contents`

hiddedevries.nl

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# More accessible markup with `display: contents`

*Published on 21 April 2018 by Hidde de Vries in [code](#).*

CSS Grid Layout lets you turn an element into a grid, and place the element's *direct children* onto it. Given that, it might be tempting to use flatter markup, but less meaning is usually less accessibility. With `display: contents`, we can place *grand children* on a grid, which lets us have accessible markup *and* beautiful layout. Let's dive into the details!

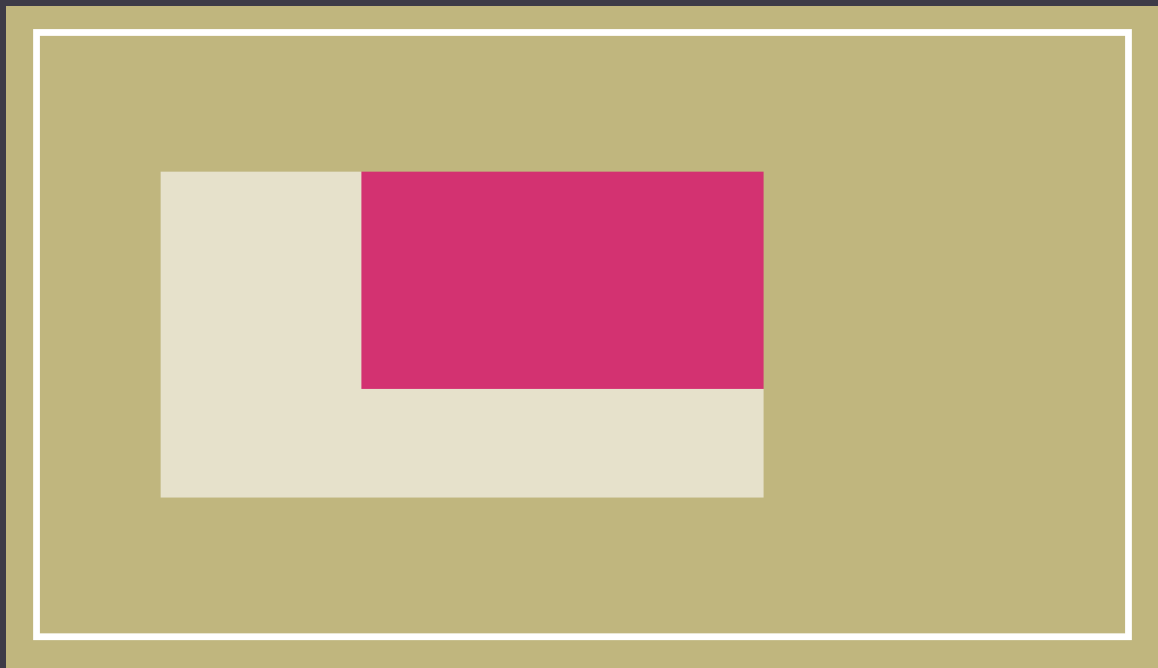
Below, I will explain in more detail what I mean by children and grand children, and then show how we can use `display: contents` to improve this. *Note: this is currently broken in supporting browsers, more details below*

## Grid works on direct children

In Grid Layout, when a grid is defined on a given element, only direct children of that element become grid items and are layed out on it. To refresh for those not familiar with the syntax, let's look at an example and write a recipe. With this HTML:

# Subgrid

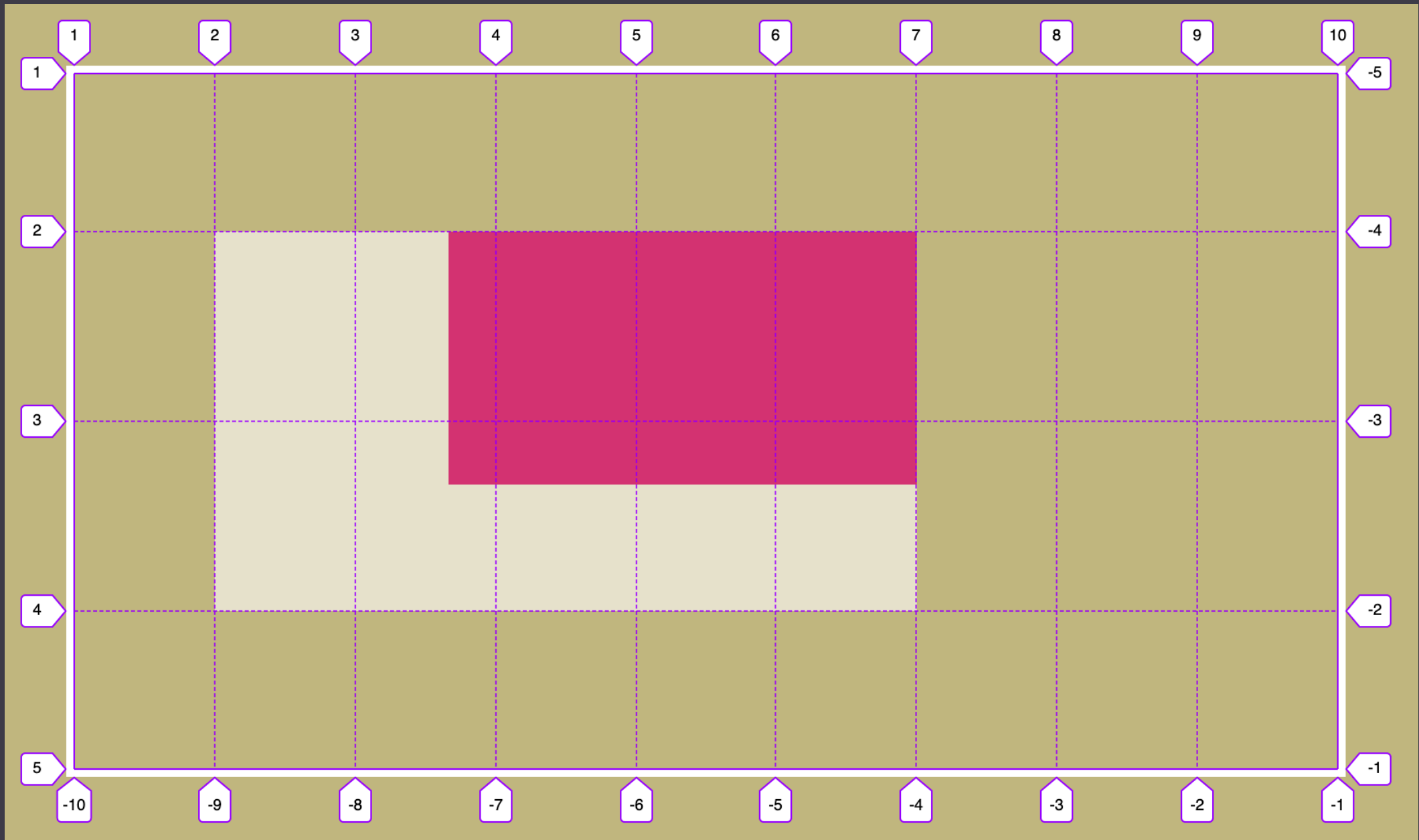
Create a grid on a grid item which uses the grid tracks defined on the parent – for rows, columns or both.

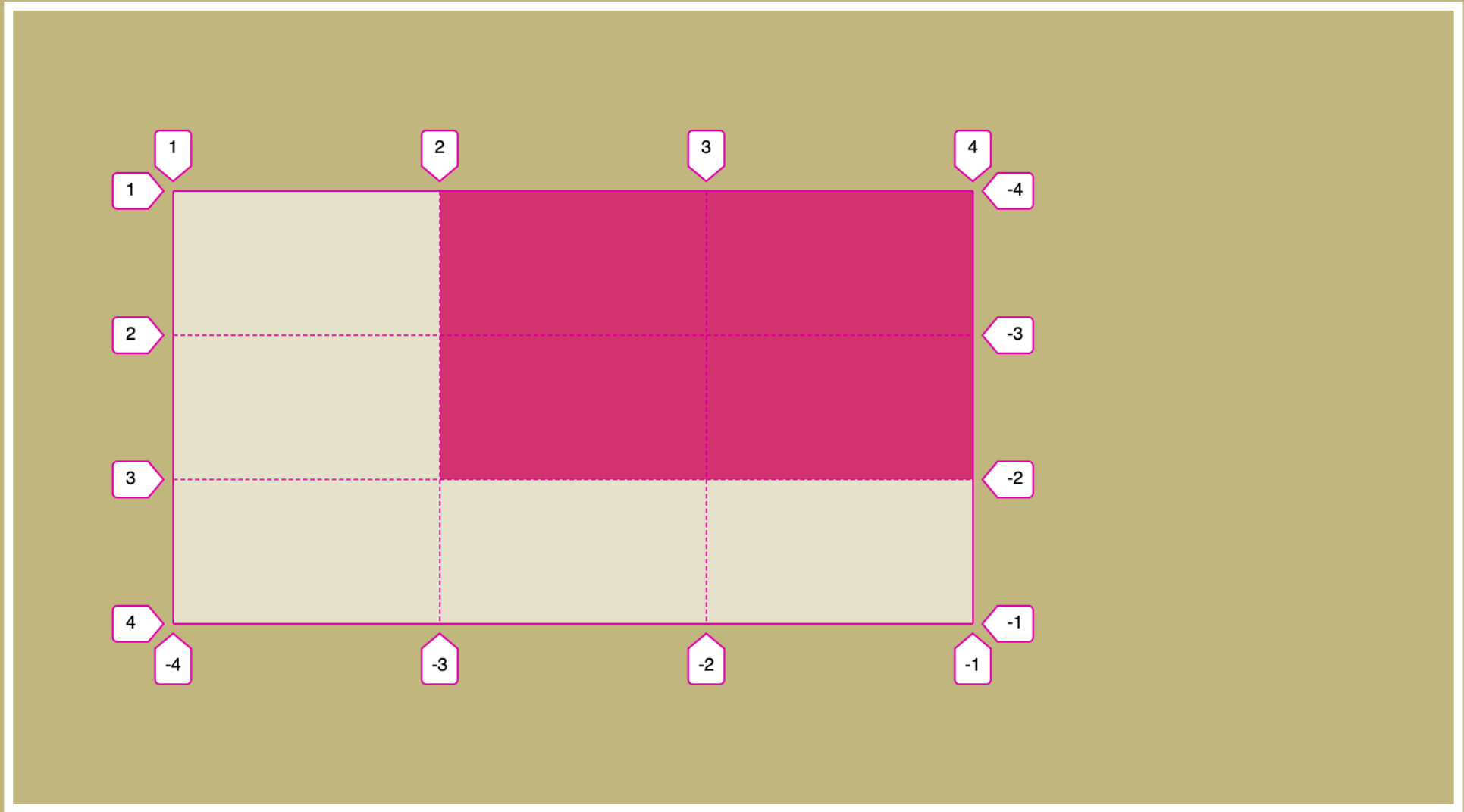


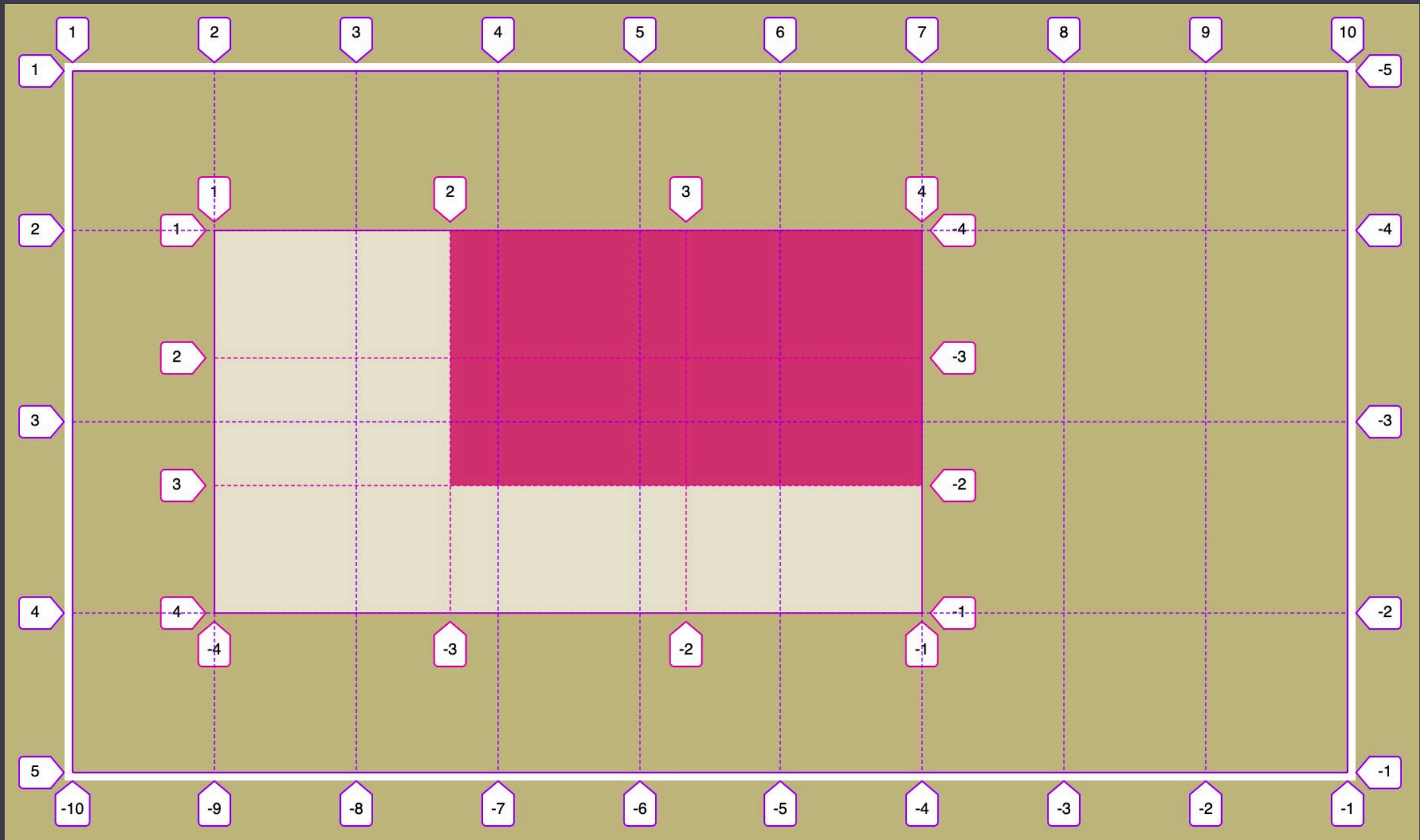
```
.grid {  
  display: grid;  
  grid-template-columns: repeat(9, 1fr);  
  grid-template-rows: repeat(4, minmax(100px,  
auto));  
}
```

```
.item {  
  grid-column: 2 / 7;  
  grid-row: 2 / 4;  
  display: grid;  
  grid-template-columns: repeat(3, 1fr);  
  grid-template-rows: repeat(3, 80px);  
}
```

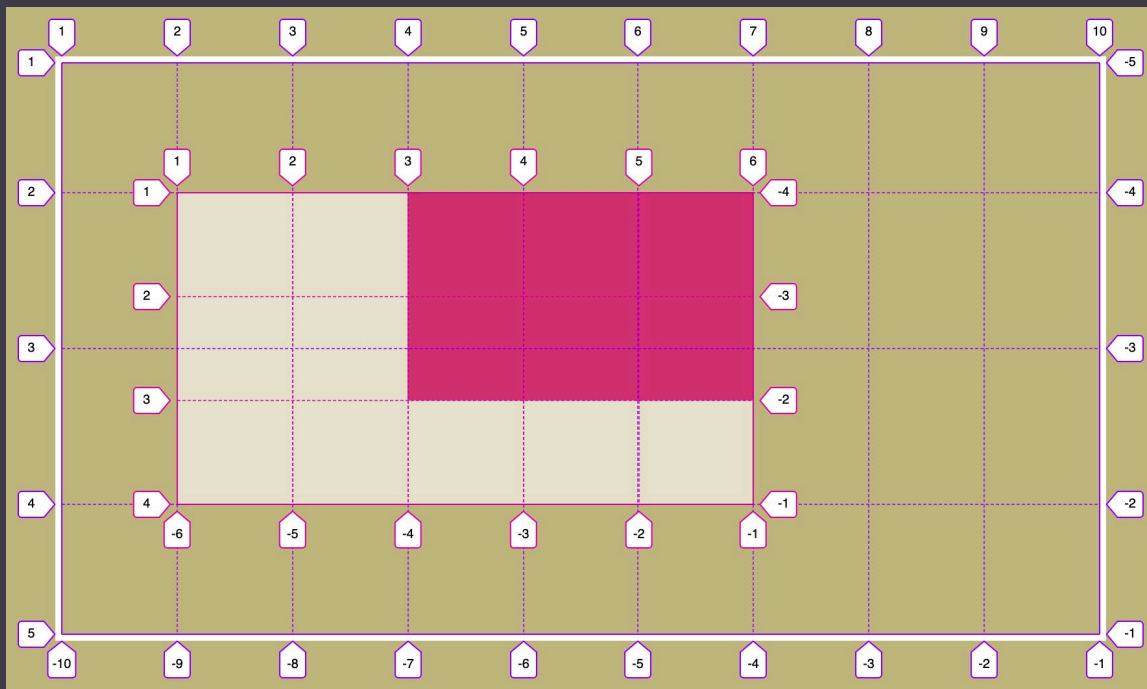
```
.subitem {  
  grid-column: 2 / 4;  
  grid-row: 1 / 4;  
}
```







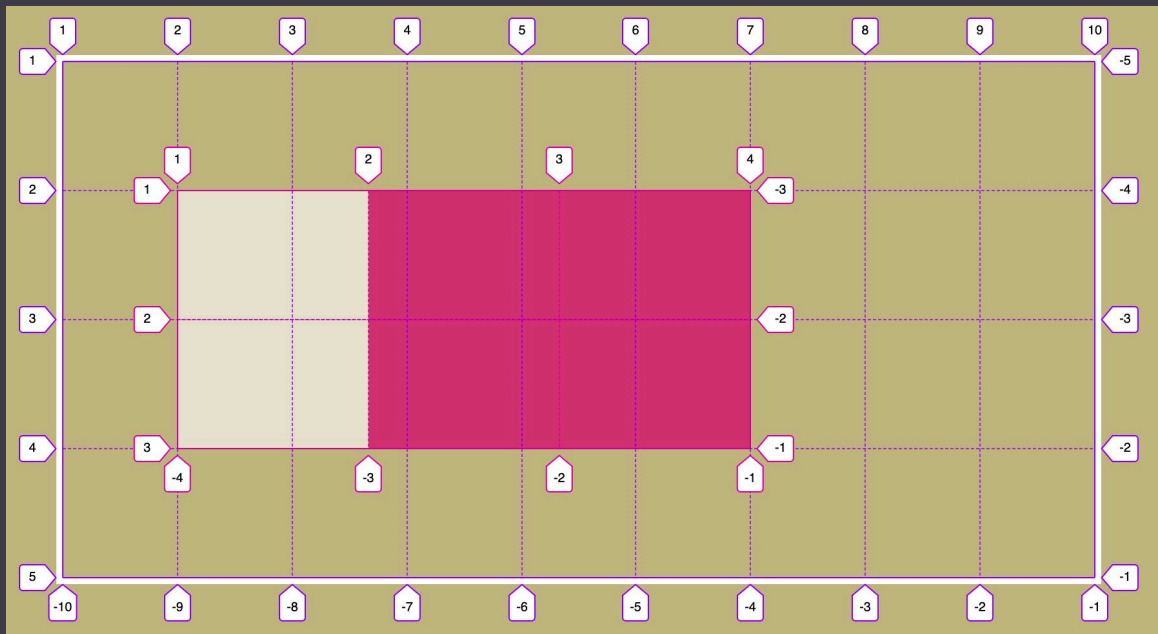




```
.grid {
  display: grid;
  grid-template-columns: repeat(9, 1fr);
  grid-template-rows: repeat(4, minmax(100px,
  auto));
}
```

```
.item {
  grid-column: 2 / 7;
  grid-row: 2 / 4;
  display: grid;
  grid-template-columns: subgrid;
  grid-template-rows: repeat(3, 80px);
}
```

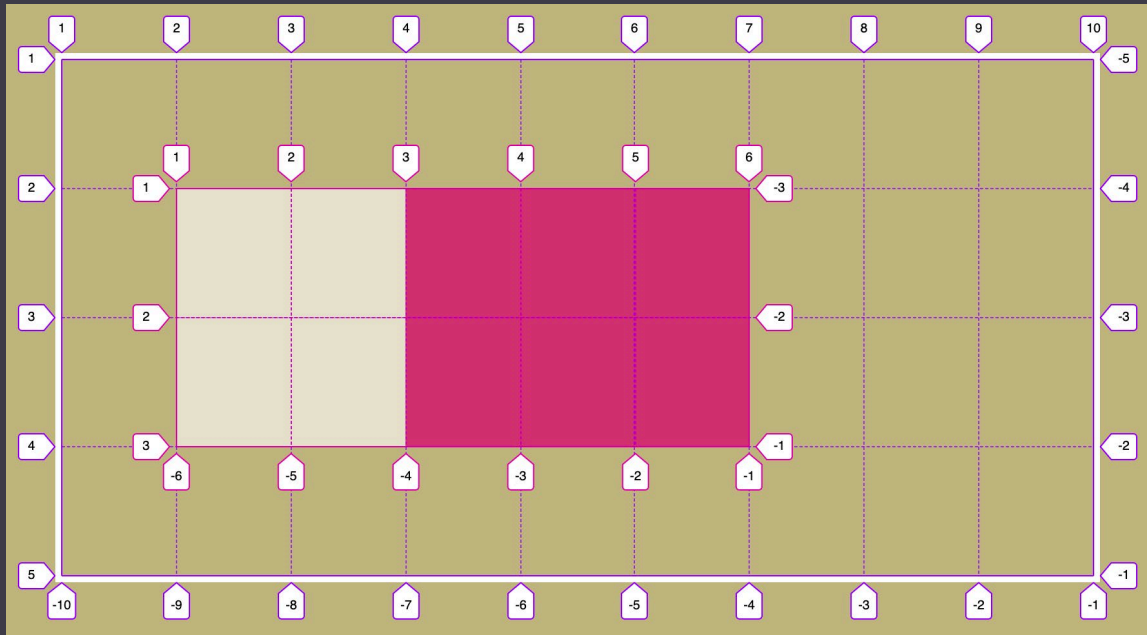
```
.subitem {
  grid-column: 3 / 6;
  grid-row: 1 / 4;
}
```



```
.grid {
  display: grid;
  grid-template-columns: repeat(9, 1fr);
  grid-template-rows: repeat(4, minmax(100px,
  auto));
}
```

```
.item {
  grid-column: 2 / 7;
  grid-row: 2 / 4;
  display: grid;
  grid-template-columns: repeat(3, 1fr);
  grid-template-rows: subgrid;
}
```

```
.subitem {
  grid-column: 2 / 4;
  grid-row: 1 / 3;
}
```



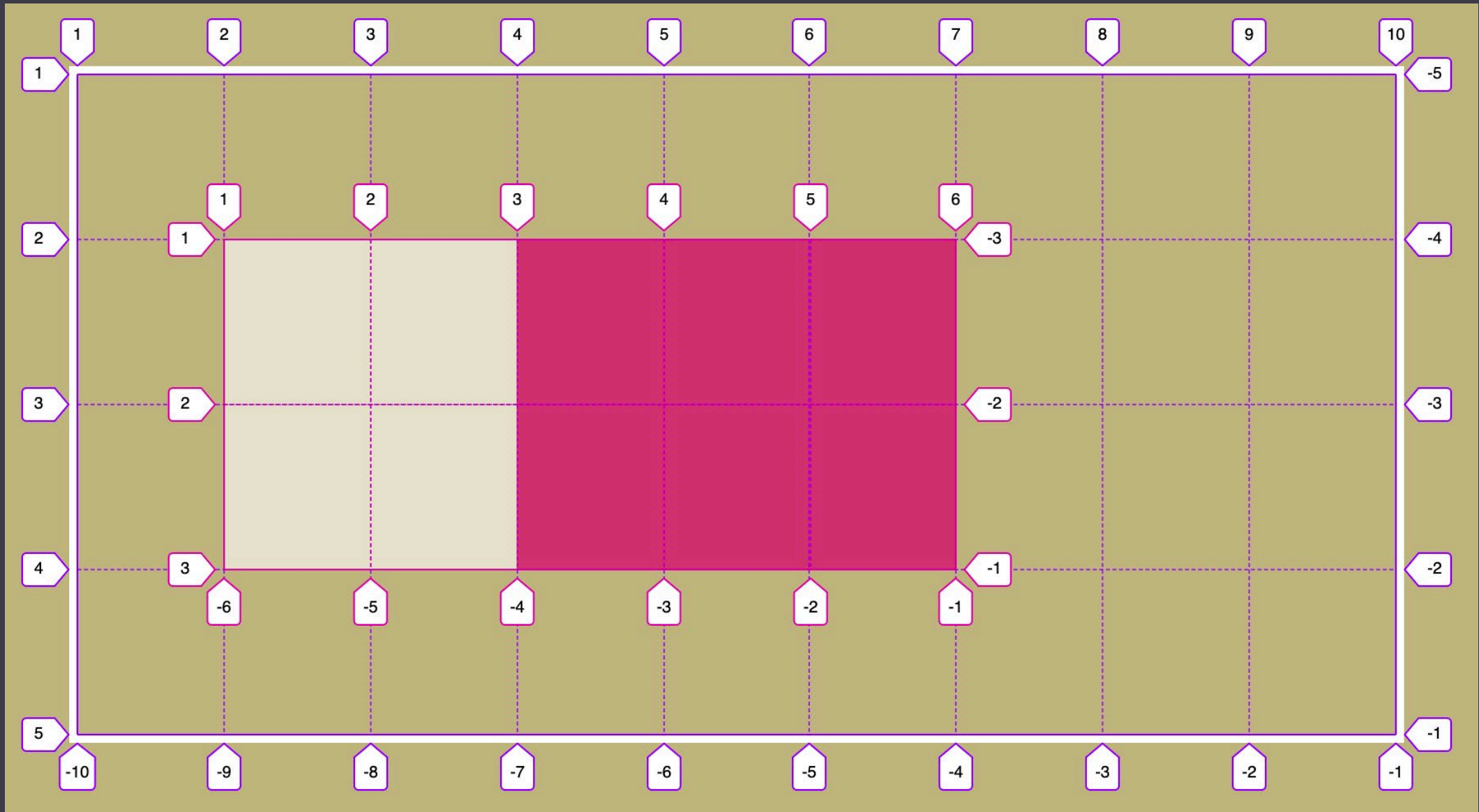
```
.grid {
  display: grid;
  grid-template-columns: repeat(9, 1fr);
  grid-template-rows: repeat(4, minmax(100px,
  auto));
}
```

```
.item {
  grid-column: 2 / 7;
  grid-row: 2 / 4;
  display: grid;
  grid-template-columns: subgrid;
  grid-template-rows: subgrid;
}
```

```
.subitem {
  grid-column: 3 / 6;
  grid-row: 1 / 3;
}
```

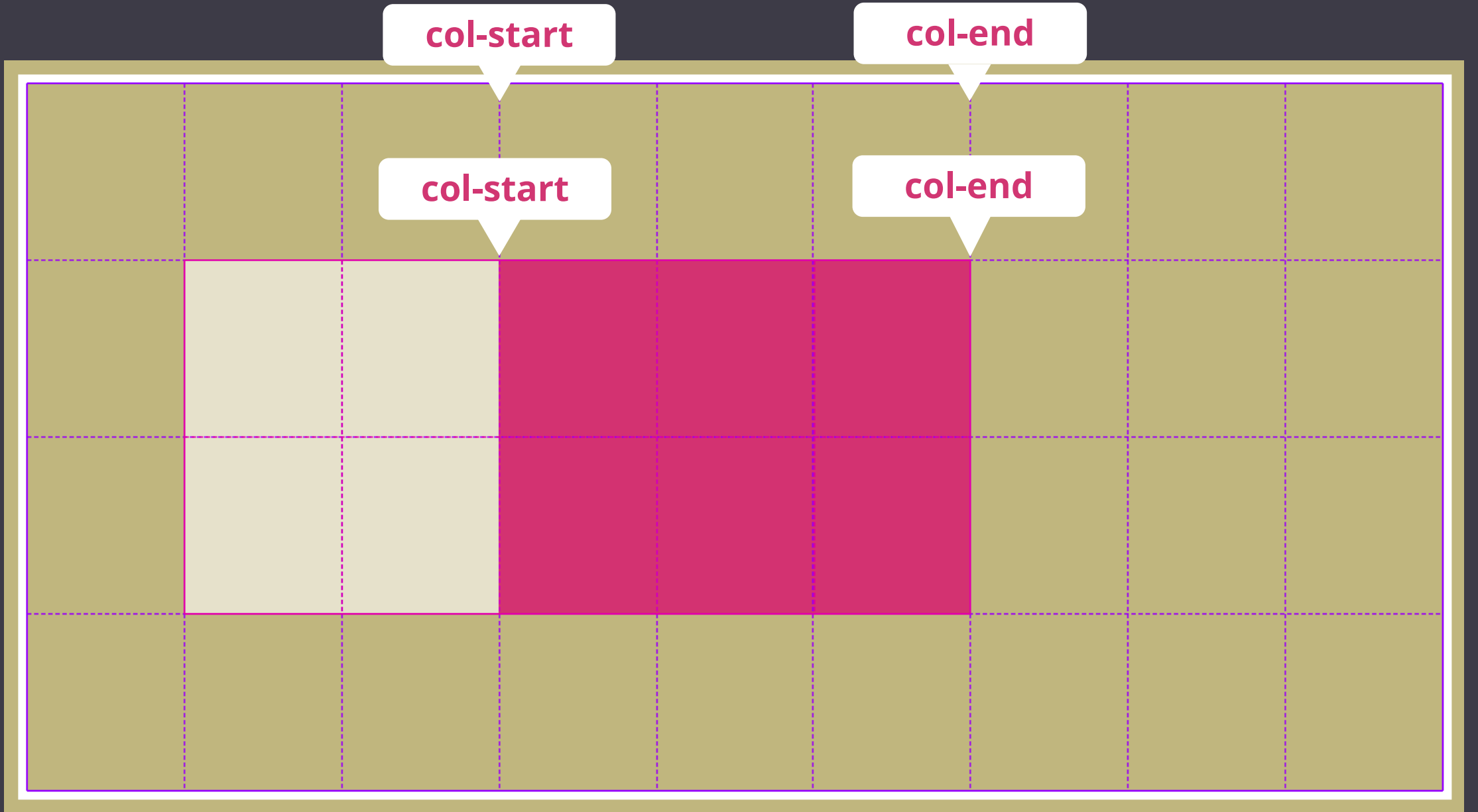
# Line numbers start from 1 inside the subgrid.

You position child items in the subgrid according to the subgrid line numbering, not those of the parent.



Line **names** on the parent  
are passed into the subgrid.

If you have named lines on the parent grid they will be passed into the subgrid and added to any names defined there.



```
.grid {  
  display: grid;  
  grid-template-columns: 1fr 1fr 1fr [col-start] 1fr 1fr 1fr [col-end] 1fr 1fr 1fr;  
  grid-template-rows: repeat(4, minmax(100px, auto));  
}
```

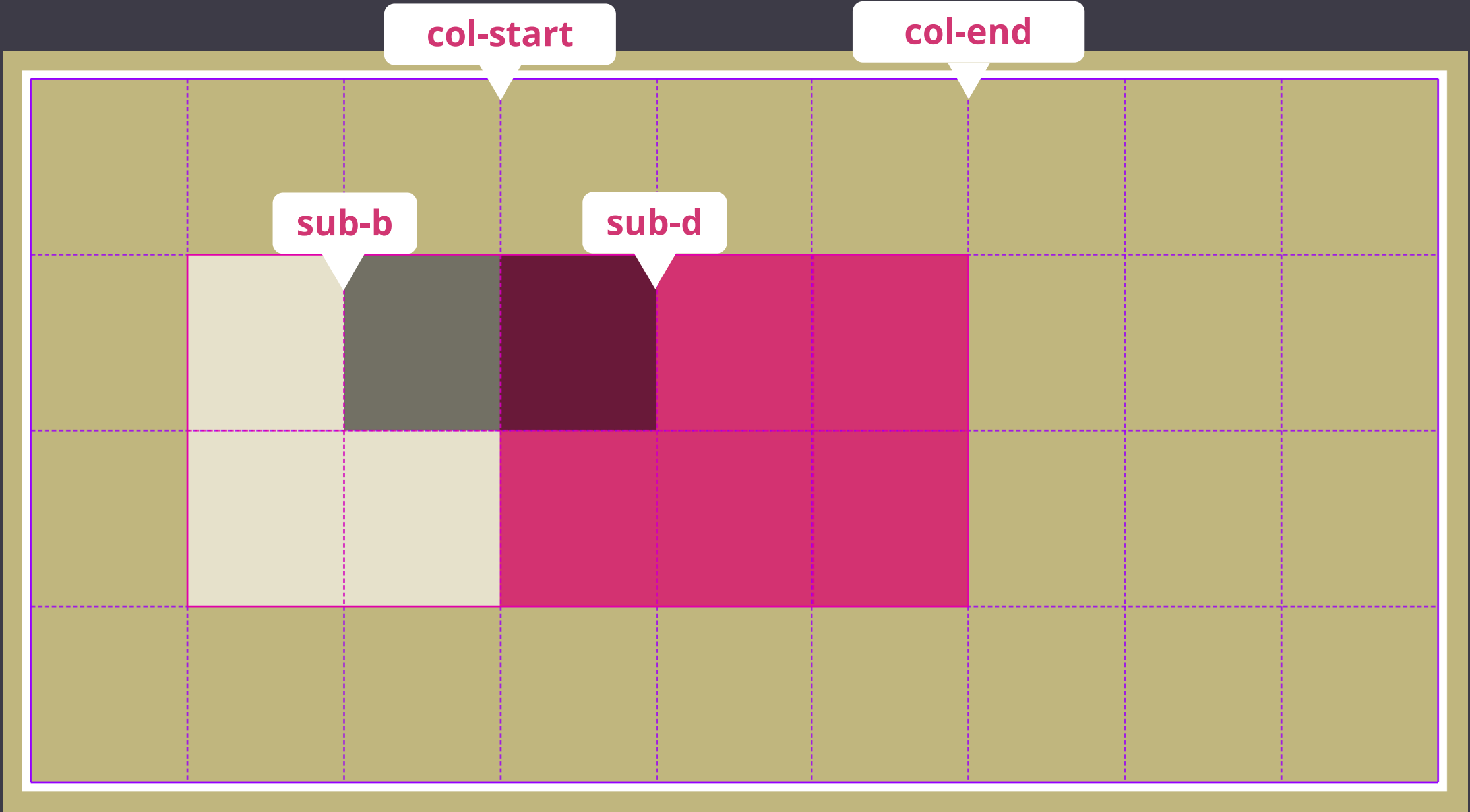
```
.item {  
  grid-column: 2 / 7;  
  grid-row: 2 / 4;  
  display: grid;  
  grid-template-columns: subgrid;  
  grid-template-rows: subgrid;  
}
```

```
.subitem {  
  grid-column: col-start / col-end;  
  grid-row: 1 / 3;  
}
```



You can **add** named lines  
to the subgrid.

Line names are added after the subgrid keyword.



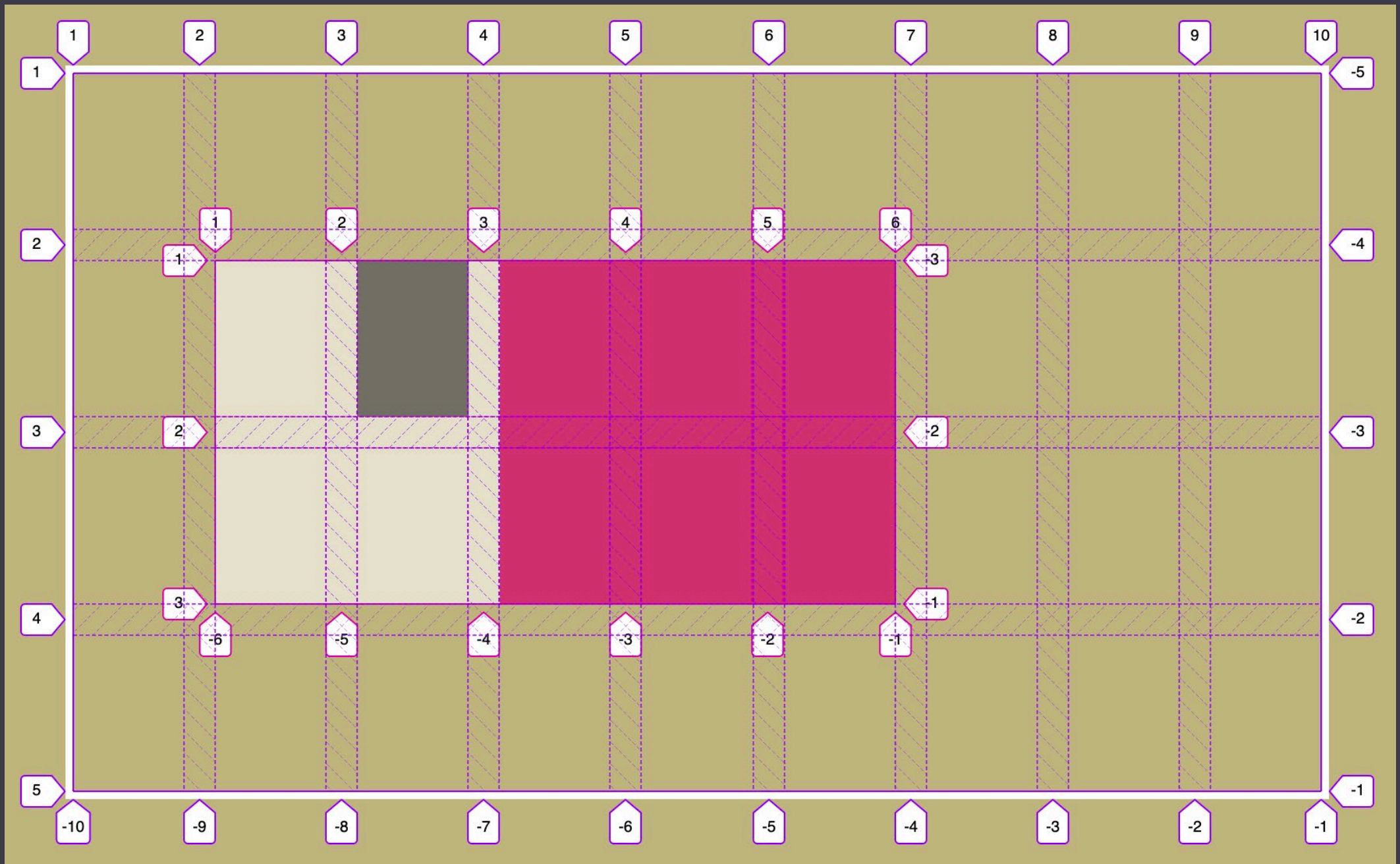
```
.grid {  
  display: grid;  
  grid-template-columns: 1fr 1fr 1fr [col-start] 1fr 1fr 1fr [col-end] 1fr 1fr 1fr;  
  grid-template-rows: repeat(4, minmax(100px, auto));  
}
```

```
.item {  
  grid-column: 2 / 7;  
  grid-row: 2 / 4;  
  display: grid;  
  grid-template-columns: subgrid [sub-a] [sub-b] [sub-c] [sub-d] [sub-e] [sub-f];  
  grid-template-rows: subgrid;  
}
```

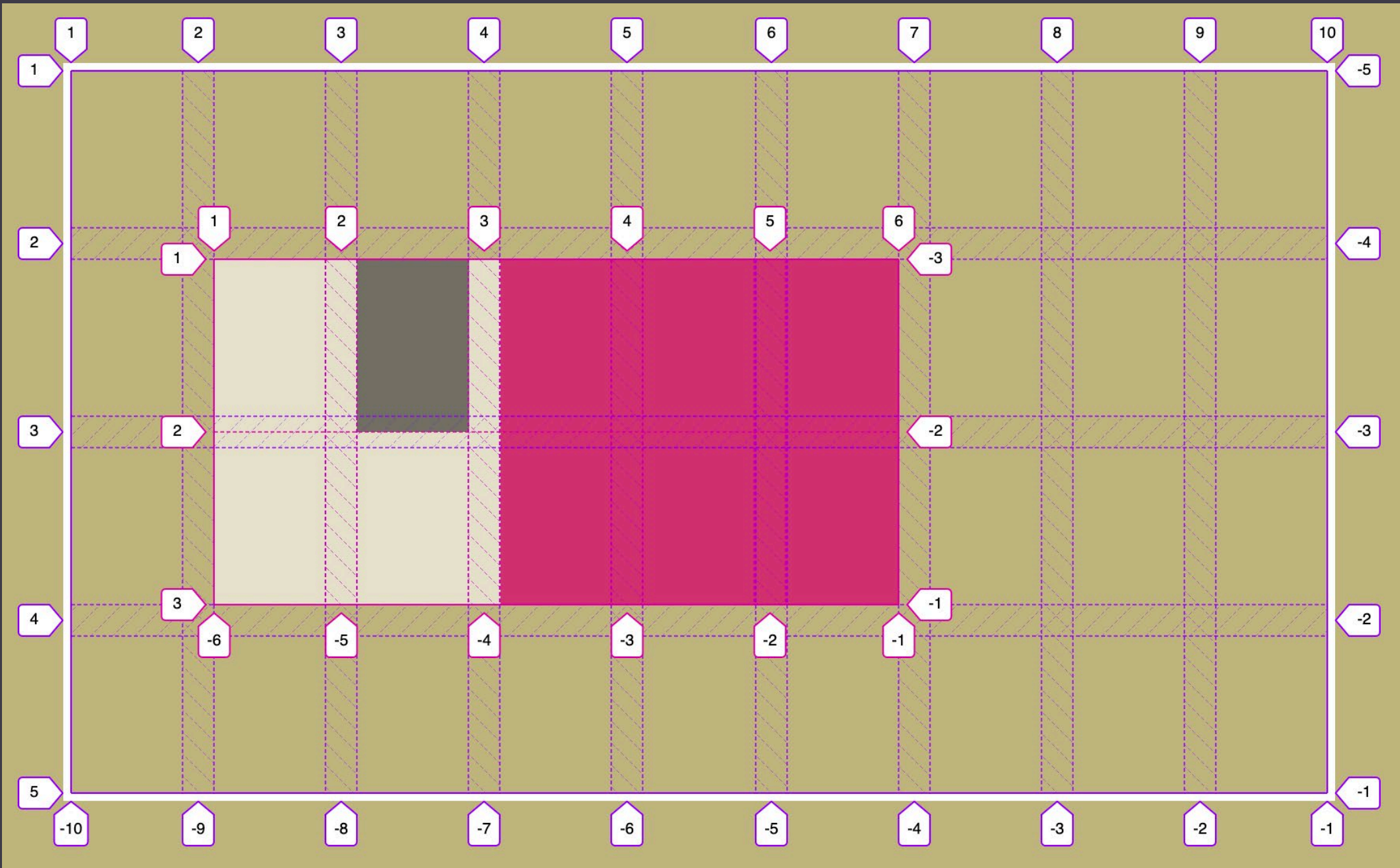
```
.subitem {  
  grid-column: col-start / col-end;  
  grid-row: 1 / 3;  
}
```

```
.subitem {  
  grid-column: sub-b / sub-d;  
  grid-row: 1 / 3;  
}
```

The subgrid inherits the  
**gaps** from the parent.



You can **change** the gaps  
on the subgrid.



**Sizing** of items in the subgrid can change the size of the parent tracks.





de Havilland  
Canada DHC-3  
Otter

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Airbus A380

The Airbus A380 is the world's largest passenger airliner.



Fokker F27  
Friendship

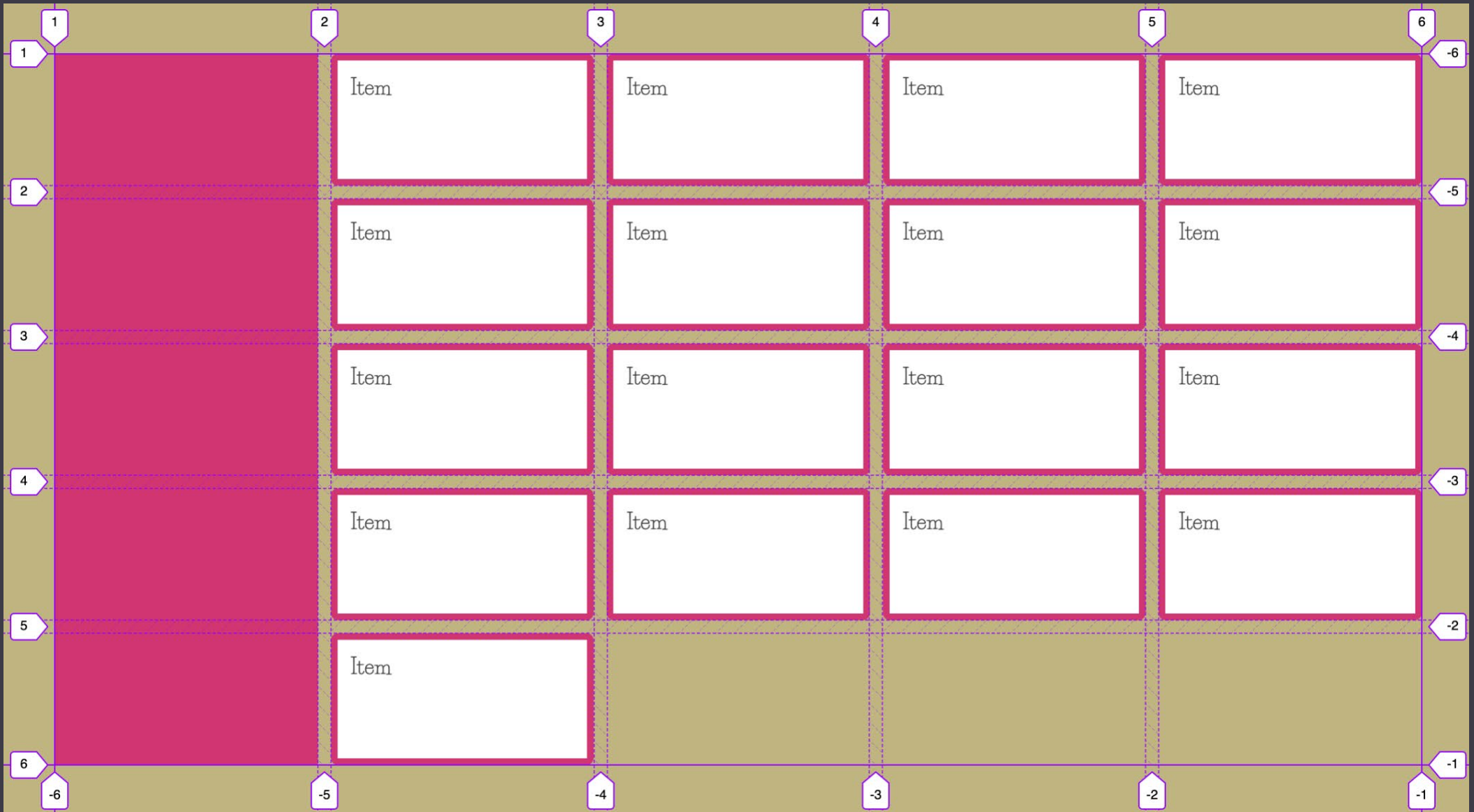
The Fokker F27 Friendship is a turboprop airliner developed and manufactured by the Dutch aircraft manufacturer Fokker.

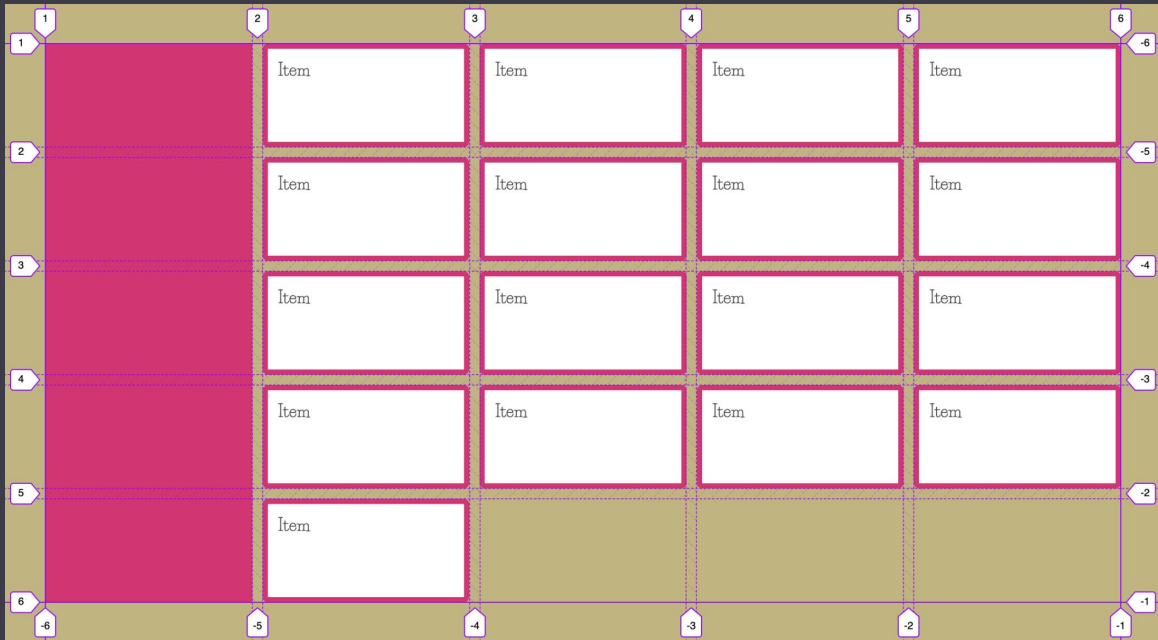


Short Stirling

The Short Stirling was a British four-engined heavy bomber of WW2

Solved by subgrid ...





```
.wrapper {  
  display: grid;  
  gap: 10px;  
  grid-template-columns: repeat(5, 1fr);  
  /* 5 explicit rows */  
  grid-template-rows:  
    repeat(5, minmax(100px, auto));  
}  
  
.fullheight {  
  background-color: rgb(209,54,114);  
  grid-row: 1 / -1;  
}
```

Line -1 is the end line of  
the explicit grid.



Item

Item

Item

Item

Item

Item

Item

Item

Item

Item

Item

Item

Item

Item

Item

Item

Item

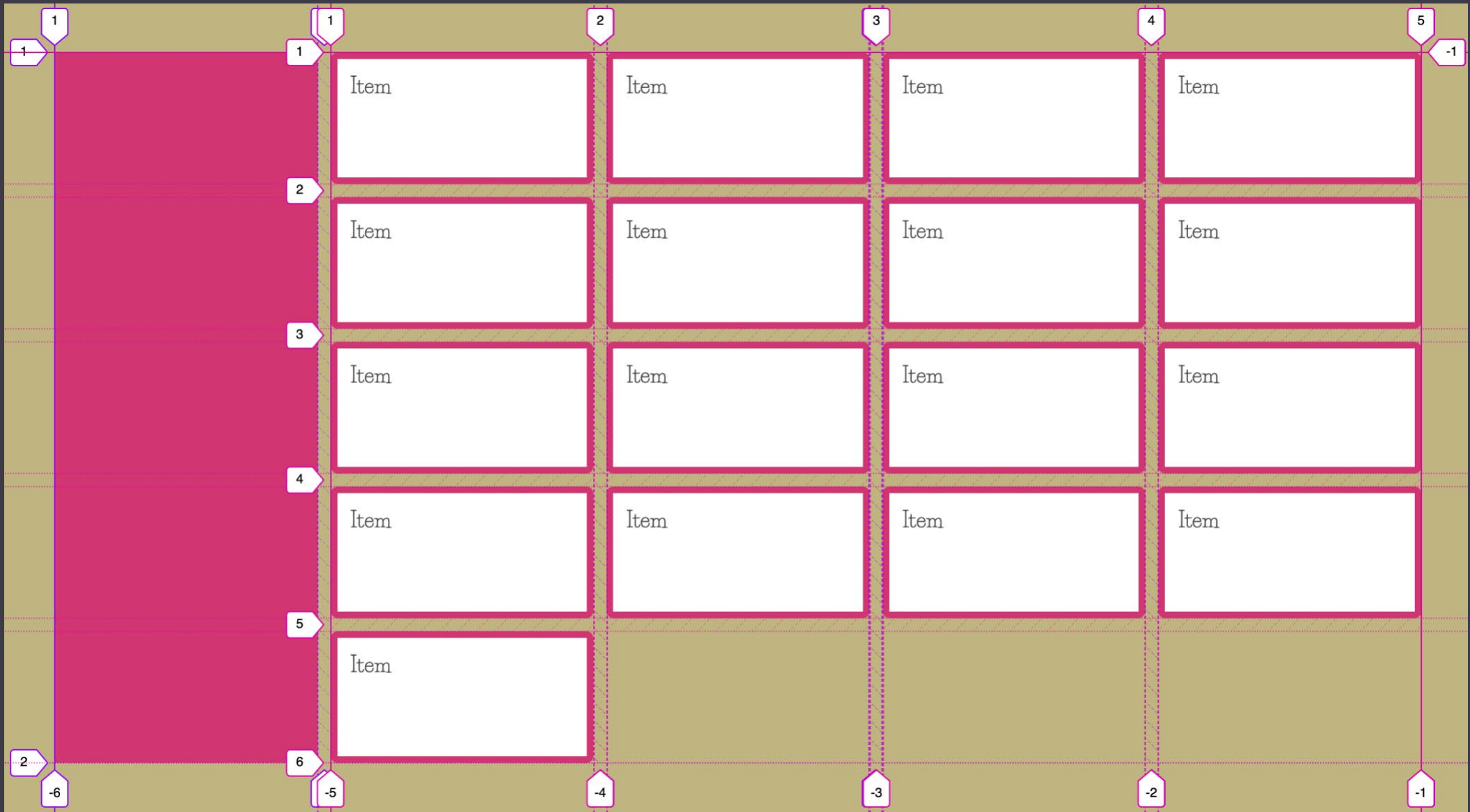


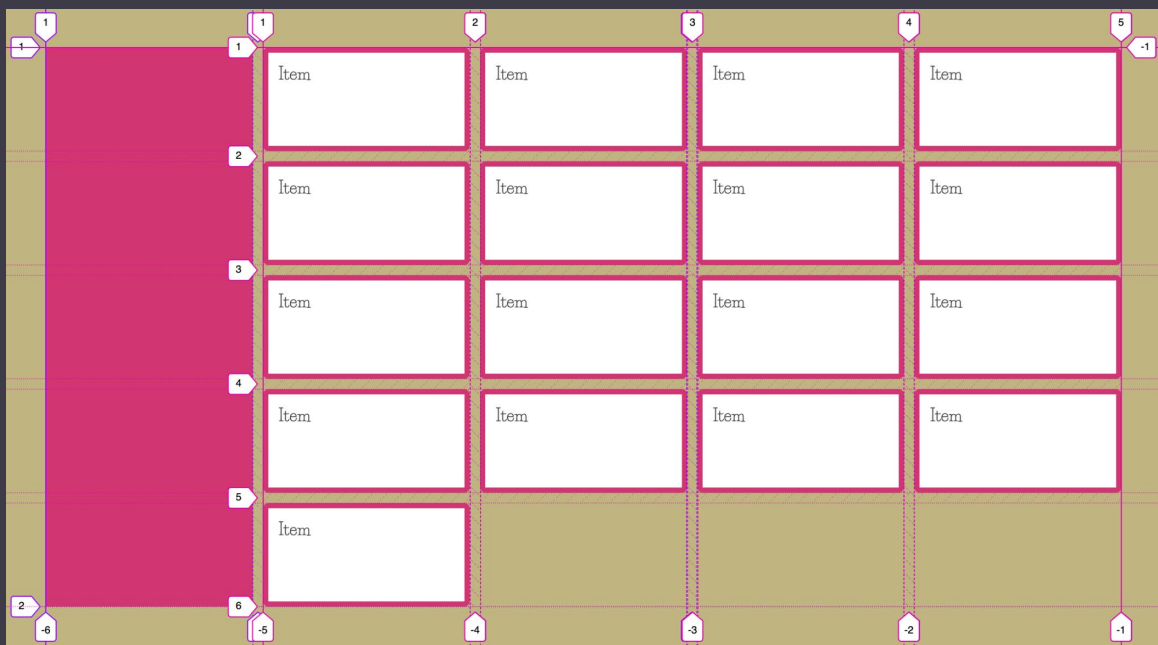
```
.wrapper {  
  display: grid;  
  gap: 10px;  
  grid-template-columns: repeat(5, 1fr);  
  /* no defined explicit rows */  
  grid-auto-rows: minmax(100px, auto);  
}  
  
.fullheight {  
  background-color: rgb(209,54,114);  
  grid-row: 1 / -1;  
}
```

We can't target the end  
line of the **implicit grid.**



Place the items in a  
container which uses a  
subgrid for columns







```
.wrapper {
  display: grid;
  gap: 10px;
  grid-template-columns: repeat(5, 1fr);
  /* no defined explicit rows */
  grid-auto-rows: minmax(100px, auto);
}

.items {
  grid-column: 2 / -1;
  display: grid;
  grid-template-columns: subgrid;
  grid-auto-rows: minmax(100px, auto);
}

.fullheight {
  background-color: rgb(209,54,114);
  grid-row: 1 / -1;
}
```

# Now the bad news

# CSS Subgrid - WD

Usage % of     
Global 0%  
U.K. 0%

Feature of the CSS Grid Layout Module Level 2 that allows a grid-item with its own grid to align in one or both dimensions with its parent grid.

**Current aligned** Usage relative Date relative **Apply filters** Show all 

IE	Edge *	Firefox	Chrome	Safari	iOS Safari *	Opera Mini *	Chrome for Android	UC Browser for Android	Samsung Internet
			71						
	17	65	72		11.4				4
11	18	66	73	12	12.1	all	71	11.8	8.2
		67	74	12.1	12.2				
		68	75	TP					
			76						

Notes Known issues (0) Resources (6) Feedback

Firefox status: in-development

# Slightly better news

Subgrid is in Firefox Nightly!

Subgrid columns

Subgrid columns  
A PEN BY rachelandrew PRO

HTML

```
1 <div class="grid">
2   <div class="item">
3     <div class="subitem"></div>
4   </div>
5 </div>
```

CSS

```
1 body {
2   padding: 2em;
3   background-color: rgb(192,181,129);
4   color: #fff;
5 }
```

JS

```
1
```

Inspector

Search HTML

```
<html lang="en">
  <div id="saka-gui-root" style="position: absolute; left: 0px; top: 0px; width: 100%; height: 100%; z-index: 2147483647; opacity: 1; pointer-events: none;">
  </div>
  <head>
  </head>
  <body translate="no">
    <div class="grid">
      <div class="item">
        <div class="subitem"></div>
      </div>
    </div>
    <script src="https://static.codepen.io/assets/editor/live/css_reload-5619...905a68b2e6298901de54f73cefe4e079f65a75406858d92924b4938bf.js"></script>
```

Rules

Layout

Grid

- Overlay Grid
  - div.screenshot-description-container
  - div.grid
  - div.item
- Grid Display Settings
  - Display line numbers
  - Display area names

# Fewer rendering engines

fewer places where new ground can be broken.



**Tell browsers what you  
want in the platform.**

618969 - [css-grid] Implement subgrid support

https://bugs.chromium.org/p/chromium/issues/detail?id=618969

bugs chromium New issue Open issues Search chromium issues... Sign in

Starred by 13 users

Status: Available  
Owner: ----  
Cc: ifeman...@igalia.com, r...@igalia.com, svil...@igalia.com  
Components: Blink>Layout>Grid  
EstimatedDays: ----  
NextAction: ----  
OS: All  
Pri: 3  
Type: Feature  
Hotlist-Recharge-Cold  
Blocking: issue 79480

### Issue 618969: [css-grid] Implement subgrid support

Reported by r...@igalia.com on Fri, Jun 10, 2016, 11:24 AM GMT+1

There's a new reduced subgrid proposal that we could try to implement at some point.

The spec section: <https://drafts.csswg.org/css-grid/#subgrids>

Just reporting the bug to keep track of it and use it as meta-bug during the implementation.

**Comment 1** by m...@mko.io on Sun, Jun 12, 2016, 9:56 AM GMT+1  
This makes grid really useful!

**Comment 2** by sheriffbot@chromium.org on Mon, Jun 12, 2017, 4:05 PM GMT+1  
**Labels:** Hotlist-Recharge-Cold  
**Status:** Untriaged (was: Available)

This issue has been Available for over a year. If it's no longer important or seems unlikely to be fixed, please consider closing it out. If it is important, please re-triage the issue.

Sorry for the inconvenience if the bug really should have been left as Available. If you change it back, also remove the "Hotlist-Recharge-Cold" label.

For more details visit <https://www.chromium.org/issue-tracking/autotriage> - Your friendly Sheriffbot

**Comment 3** by e...@chromium.org on Mon, Jun 12, 2017, 6:55 PM GMT+1  
**Labels:** -Type-Bug Type-Feature  
**Status:** Available (was: Untriaged)

**Comment 4** by svil...@gmail.com on Fri, Jun 23, 2017, 4:39 PM GMT+1  
It's just simply delayed. Subgrids were moved to Level 2 of the specs, so they are not a priority at all ATM. But it'll be eventually implemented.

**Comment 5** by sheriffbot@chromium.org on Mon, Jun 25, 2018, 5:04 PM GMT+1  
**Status:** Untriaged (was: Available)

This issue has been Available for over a year. If it's no longer important or seems unlikely to be fixed, please consider closing it out. If it is important, please re-triage the issue.

Sorry for the inconvenience if the bug really should have been left as Available.

For more details visit <https://www.chromium.org/issue-tracking/autotriage> - Your friendly Sheriffbot

**Comment 6** by r...@igalia.com on Tue, Jun 26, 2018, 8:56 AM GMT+1  
**Status:** Available (was: Untriaged)

Sign in to add a comment

<https://bugs.chromium.org/p/chromium/issues/detail?id=618969>



# Write about features you want to see in browsers

Write up your use cases, the problems having the feature will solve.

# Use new features

Browsers are watching.

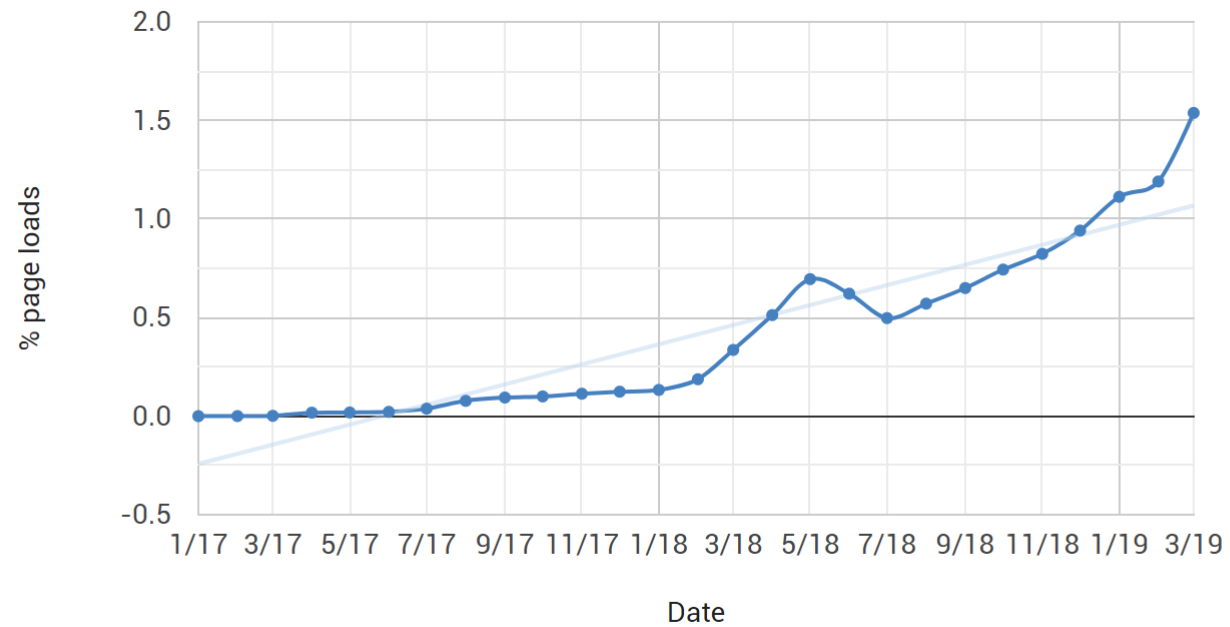
Use of CSS properties over time.

grid-template-rows

Show all historical data:

## Percentage of page loads that use this feature

The chart below shows the percentage of page loads (in Chrome) that use this feature at least once. Data is across all channels and platforms.



# Use new features when they are behind a flag

You get to beta test the web platform!

# Give feedback to the CSS Working Group

<https://github.com/w3c/csswg-drafts/issues>



Issues · w3c/csswg-drafts

GitHub, Inc. (US) | https://github.com/w3c/csswg-drafts/issues

Search or jump to... Pull requests Issues Marketplace Explore

w3c / csswg-drafts

Unwatch 301 Unstar 1,525 Fork 250

Code Issues 1,346 Pull requests 29 Projects 8 Insights

Filters is:issue is:open Labels 182 Milestones 1 New issue

<input type="checkbox"/>	1,346 Open ✓ 1,835 Closed	Author	Labels	Projects	Milestones	Assignee	Sort
<input type="checkbox"/>	<b>[css-text-4] white-space:break-spaces is in level 3 but not level 4</b> <b>css-text-3</b> <b>css-text-4</b>						3
	#3794 opened 10 hours ago by litherum						
<input type="checkbox"/>	<b>[css-color-4] Paint order of non-positioned stacking context</b> <b>css-color-4</b>						1
	#3793 opened 12 hours ago by SimonSapin						
<input type="checkbox"/>	<b>[css-transitions] What defines that unconnected elements don't transition?</b> <b>css-transitions-1</b>						3
	#3790 opened a day ago by birtles						
<input type="checkbox"/>	<b>[css-font-loading-3] Relationship between FontFace and CSSFontFaceRule</b> <b>css-font-loading-3</b>						1
	#3787 opened 2 days ago by litherum						
<input type="checkbox"/>	<b>[css-text-3] "hang" definition refers to punctuation, but also applies to white space</b> <b>css-text-3</b>						
	#3784 opened 2 days ago by heycam						
<input type="checkbox"/>	<b>[css-animations] Animations should be allowed on linear/radial gradients</b> <b>css-images-4</b>						3
	#3783 opened 2 days ago by SetTrend						
<input type="checkbox"/>	<b>[css-page-floats] should intersect with [css-page]</b>						2
	#3780 opened 3 days ago by v-python						
<input type="checkbox"/>	<b>[css-overflow] Overflow propagation when the element propagated from is display: none</b> <b>Agenda+</b>						6
	<b>css-overflow-3</b>						
	#3779 opened 5 days ago by emilio						

# Participate in the web platform

Or you are leaving your future as a designer or developer in the hands of the very few who do.

# Thank you

@rachelandrew