

# Web Presentation (CSS) for Layout, continued

**WestNet** is a full service Internet provider located in Westchester County, New York. WestNet provides dial-up access for the New York Metropolitan area and Northern New Jersey, in addition to DSL, leased-line access and web hosting services. WestNet can help solve your computer and networking problems with our in home and in office consulting services. We invite you to browse our service offerings, including [DSL / Broadband](#), [Online Backup](#), and of course, [Dial-up](#).

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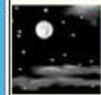
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New York Weather:



**Today:** Sunny, with a high near 47. North wind 10 to 13 mph.



**Tonight:** Mostly clear, with a low around 32. North wind 7 to 9 mph.



**Thursday:** Sunny, with a high near 46. Northeast wind 6 to 8 mph.



**Thursday Night:** Partly cloudy, with a low around 34. Calm wind becoming north around 6 mph after midnight.



**Friday:** Mostly sunny, with a high near 52. Northeast wind around 7 mph.

Last updated 10:20am Wed Nov 14

## The Main Menu



### Description of Items

- [About WestNet](#): Information on the services provided by WestNet.
- [Bulletins](#): Local notices, payment options, and other general information about the system.
- [The WestNet Mall](#): Sample the wares of local merchants and businesses who have opened electronic storefronts.
- [Home Pages](#): Take a break and see what some of our other users are up to. Links to instructions on how to write your own www documents are available from this page also.
- [Subscriber Information](#): WestNet subscribers can get information about their current account status, change their password and read their e-mail via the web.
- [Help Pages](#): What is the Internet, software installation and troubleshooting instructions, and a guide to FTP, IRC, creating home pages, E-mail, and downloading software.
- [Electronic News Stand](#): News, Publications, Comics, and Magazines.
- [USENET](#): Read USENET discussion groups right from our home page. Use our custom search program to find discussions of interest, or directly access the local WestNet groups.
- [Search Engines](#): Looking for something? There are many ways to search for information on the net.
- [Public Files](#): Public Domain, Shareware, and other programs for downloading, including PPP software for OS/2, Windows, and Mac.
- [Chat](#): Networks, channels, and clients for Internet Relay Chat, including sites of interest for advanced chatters.
- [Ask Staff](#): How to contact WestNet for sales and support questions, and our dial-up phone numbers.
- [Special Interest Groups \(SIGs\)](#): Sites of interest for a variety of topics, including cooking, travel, entertainment, and science - a great place to start for new users!
- [9 to 5](#): Links for your business: the stock market, office supplies, real estate, government, and employment.
- [Family](#): Sites for the whole family to use and enjoy together, including movies and TV sites, toys and games, educational and travel sites.
- [Community Information](#): A small but growing list of resources for Westchester County and the surrounding area.
- [Weather](#): Daily and extended weather forecasts for Westchester County and the world.



Welcome To: **Gates N Fences**

L.A. Ornamental Corp  
3708 N.W. 82nd Street  
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Phone: 305-696-0419  
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8+1

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We offer a large selection of Gate Openers and Gate Operators for Residential Driveway Gates, Light or Heavy Commercial Gates, or industrial locations. If your not sure the style or size of the Gate opener / gate operator you need, please e-mail or contact us so we can gladly help guide you to the correct choice. We offer all type of Gate Openers / Gate Operator, Sliding Gate Openers / Gate Operator, Swing Gate Openers / Gate Operator, Hydraulic Gate Openers / Gate Operator. We also have a wide selection of replacement [Main Circuit Boards](#) for all brands, and [Remote Controls](#) for Visors or Keychains.

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[Garden Gates or Walk Gates](#) can be designed to match any existing or ordered driveway gate. Customers can choose between wrought iron or aluminum as material and choose from our wide selection of powder coated colors. Garden or Walk Gates are custom made that can give your home that special and elegant look.

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We offer a large selection of Wrought Iron and [Aluminum Driveway Gates](#) , but also browse through our wide selection of Gate Operators, either [Sliding](#) or [Swing Gate Openers / Operators](#).

[Access Control](#): Tele-phone Entry System from Linear, Select Engineering, American Access System, Sentex, For Residential and Commercial Application. A variety of Access Control Equipments, including Remote Controls, Card Readers, Proximity Card Reader, Key Pads, Wireless Key Pad, Wireless Telephone Entry System, Free Exit Loops, Safety Loop, Safety Photo Sensor, Multi-Code, LiftMaster, Linear, Proximity Card, Magnetic Lock, Wireless Intercom, Receiver, Transmitter, Exit Wand, Extended Range Antennas, Electric Strike, Radio Receiver, Mini Remotes, Electric Magnetic Lock, Safety Loop, Exit Loop, Safety Sensor, Sensor Wire, Omron Safety Photo Cell. Goose Neck for Key Pads or Telephone Entry System. What ever your need are for Gate Access Control we have the Security system.

[Security Gates](#): Heavy Duty, Apertion Gates for Security. These Folding Gates are Retractable and are used mostly in Industrial warehouses





## Giuliani: Trump could have shot Comey to end probe and not be prosecuted



**If the President had shot the ex-FBI director instead of firing him, he would've faced impeachment but not prosecution, the President's lawyer tells HuffPost**

CNN anchor confronts Giuliani on probe ▶

Christie: Claim that Trump cannot obstruct justice is outrageous

Bill Clinton: If a Dem was president, impeachment would've begun

Trump rips FBI and DOJ for not notifying him of Manafort probe

Opinion: What Rudy Giuliani's rants can't do for Trump



**Groundbreaking study says some breast cancer patients might not need chemo**



**Dancing FBI agent accidentally shoots man after doing a backflip**

### Top stories



**Melania Trump to attend her first public event in 24 days**

But she'll skip G7 and North Korea summits

Jimmy Fallon surprises Parkland grads

After vigorous eruptions, some Hawaii residents stranded in area cut off by lava

Watch lava 'river' engulf home in minutes ▶

Samantha Bee will address vulgar comment

'Big Bang' star on Roseanne: Why? How? ▶

Death of psychiatrist in JonBenét Ramsey case may be tied to 3 others, police say

Massive US-led military exercise begins

Actor saves cyclist from muggers

### News and buzz

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Judge facing recall after controversial ruling ▶ 4 h

LeBron's shorts suit cost \$46K

Teen's prank Craigslist ad backfires ▶

Soccer legend tells teammates he's leaving

Chick-fil-A owner raises wages to \$17 an hour

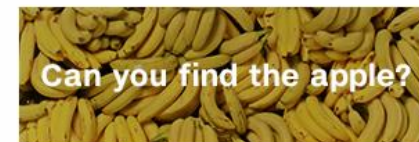


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**Can you find the apple?**

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# The CSS **display**: property

*Defaults for all HTML elements that display content...*

**display: block;**

- Stacks-up, top-over-bottom with other elements
- Uses the “box model” (padding, margin, borders)
- Is 100% wide (takes-up all the width on a line)

**display: inline;**

- Lines-up, side-by-side with other elements
- Ignores or does strange things to padding, margin, borders (no box model)
- Is only as wide as it needs to be; if wider than 100%, wraps to the next line

*Options for layout...*

**display: inline-block;**

- Uses the “box model” (like display: block) AND...
- Is only as wide as it needs to be (like display: inline)

**display: table-cell;**

- Neighboring block elements line-up side-by-side with equal height
- Ignores some aspects of the “box model”

**display: flex;**

- Neighboring block elements line-up side-by-side with equal height
- Uses the “box model”

**display: grid;**

- Everything within a GRID element can be placed anywhere you want, within the grid's box

# Step 1: Create Layout Blocks

...

```
<div class="container">  
  <header>header</header>  
  <article>main content</article>  
  <aside>related info</aside>  
  <footer>footer</footer>  
</div><!--.container-->
```

...

Other common structural elements:

- NAV
- MAIN
- SECTION

...and when all else fails:

- DIV

## Step 2: Choose a Layout Technique

At some point in your web page, you can break the normal document flow and position content side-by-side to create a columnar layout.

- ~~HTML Table~~ (not acceptable for layout)
  - ~~Float layout~~ (old fashioned but still widely used)
  - Inline-block ← Best for small layouts (e.g. navigation elements)
  - CSS table layout
  - Flex layout
  - Grid layout ← New, complicated but powerful
- } Current and best practices in the industry

# Choices

- **HTML tables** are for tabular data only! (Not for layout)
- The CSS **float** property is for moving small content to the side (left or right) and letting the rest of the content flow around it
- The CSS **inline-block** property is for lining up block elements side-by-side
- The CSS **table-cell** property is for creating a (simple) page layout with columns and rows (like a table, but not actually an HTML table)
- The CSS **flex** property is for lining up block elements side-by-side
- The CSS **grid** property is for creating a any page layout with columns and rows



# Flex vs. Grid: one dimension vs. two

## Flex

- Create a “container” – everything inside lines-up however you want
- Content is not constrained – grows vertically as needed
- Good for presenting a lot of dynamic blocks of content ("flexible")

## Grid

- Create a “container” – define what goes where, vertically (columns) and horizontally (rows)
- Content is made to fit the grid as much as possible
- Good for creating a page layout

# CSS Grid Layout

New Core Technology from the W3C

# Early 2017

- New CSS properties for Grid Layout
  - 18 new properties
  - Three new functions
- Full support
  - Chrome
  - Firefox
  - Safari
  - iOS Safari
  - Android Browser
  - Chrome for Android
  - Edge (recent)
  - IE (not fully)

## CSS properties

`grid-template-columns`

`grid-template-rows`

`grid-template-areas`

`grid-template`

`grid-auto-columns`

`grid-auto-rows`

`grid-auto-flow`

`grid`

`grid-row-start`

`grid-column-start`

`grid-row-end`

`grid-column-end`

`grid-row`

`grid-column`

`grid-area`

`grid-row-gap`

`grid-column-gap`

`grid-gap`

## CSS function

`repeat()`

`minmax()`

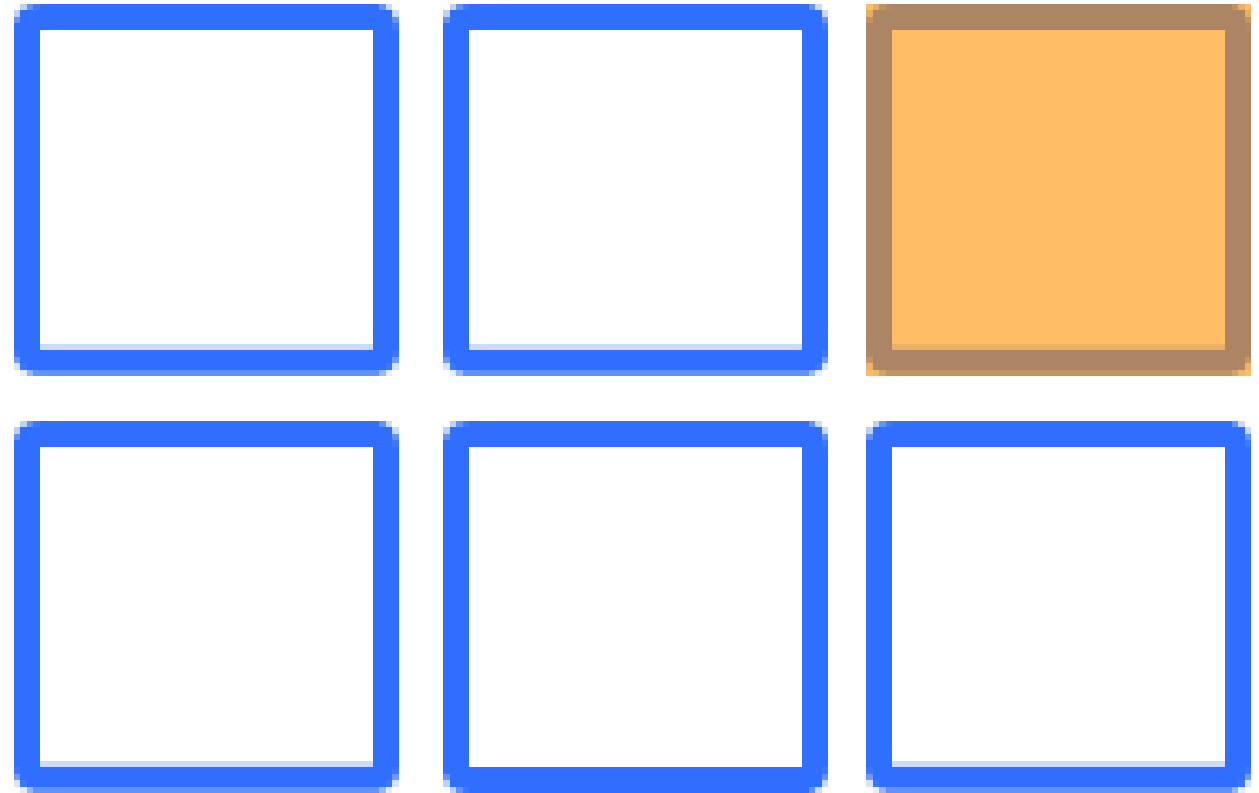
`fit-content()`



# Grid Terminology and Concepts

# Grid Cell

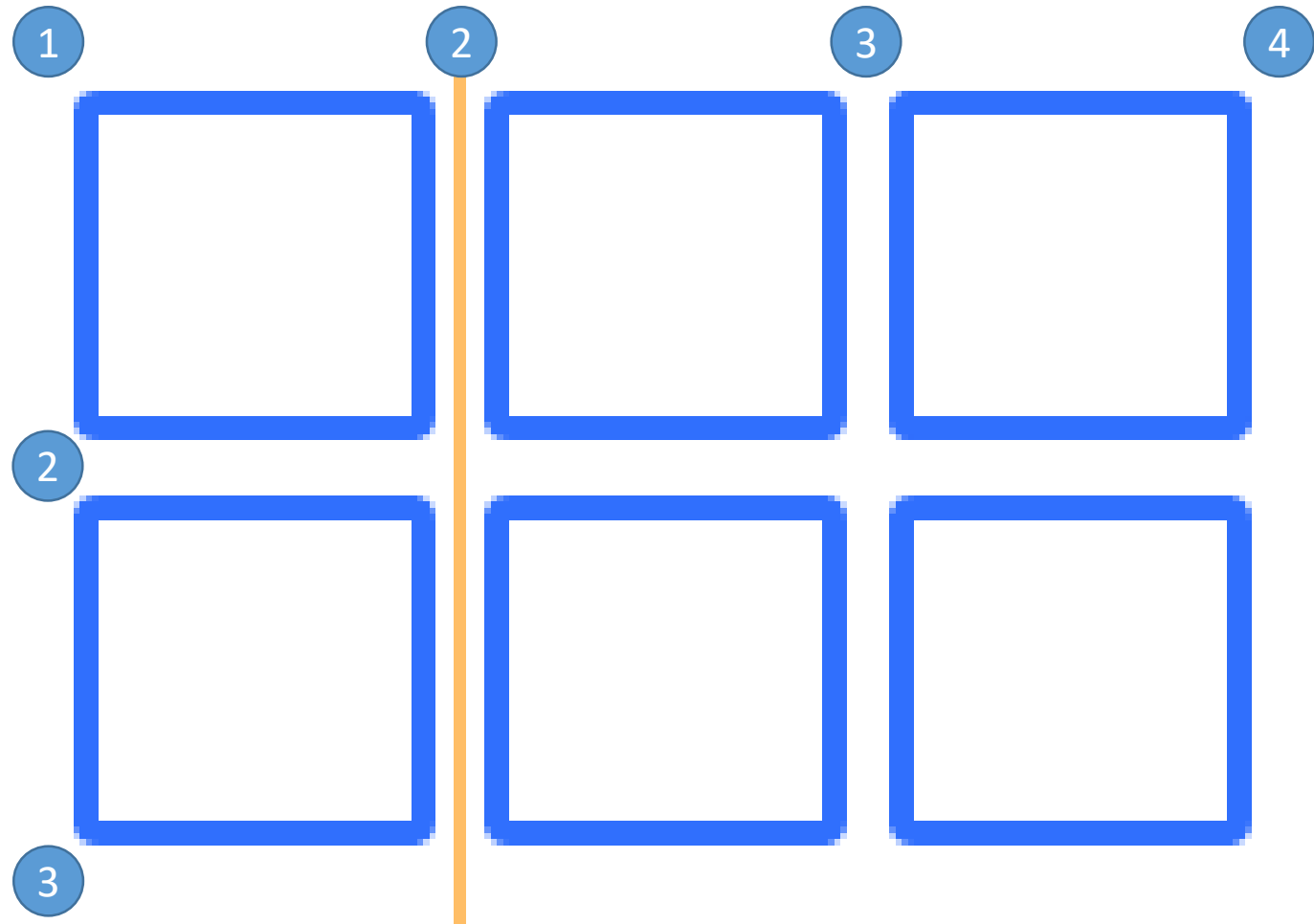
A single unit of a CSS grid



# Grid Lines

The vertical and horizontal lines that divide the grid and separate the columns and rows

*Programmers beware!  
Counting lines starts with  
"one" (not zero)*



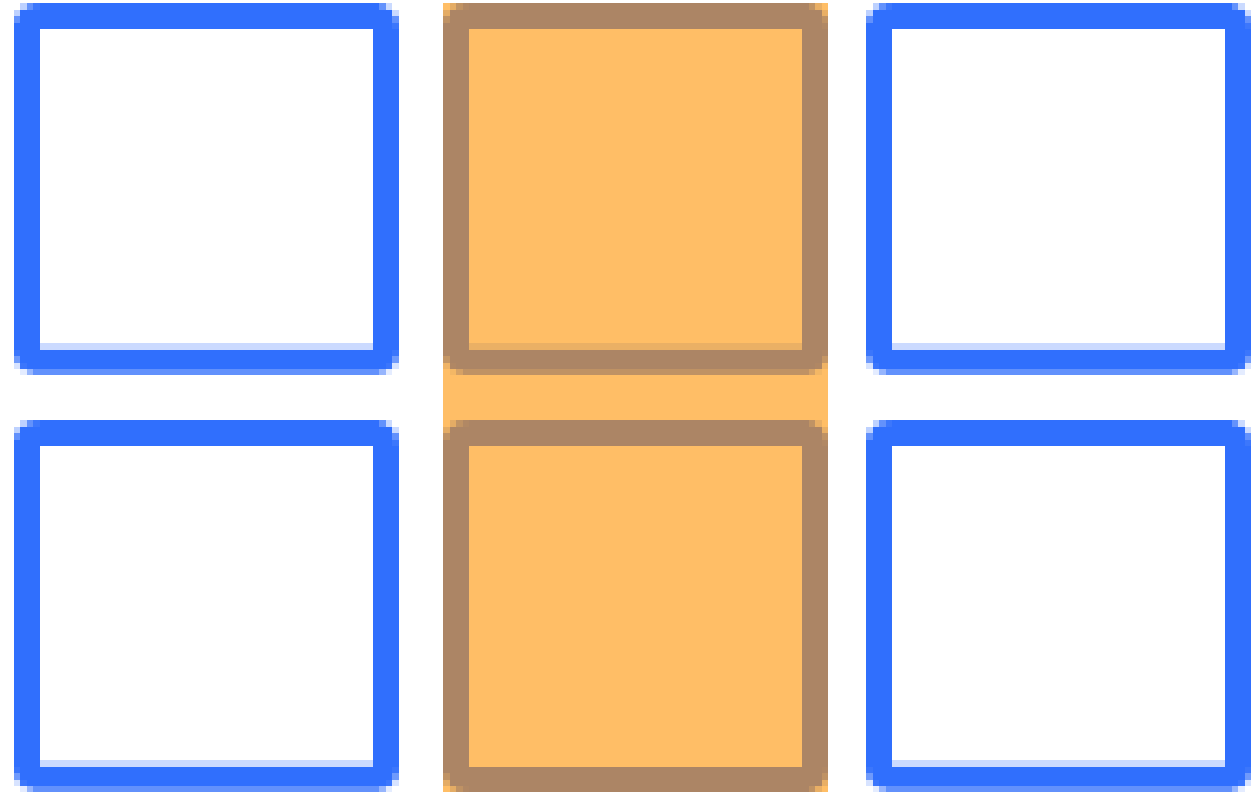


# Grid Track

The space between two grid lines.  
This space can be horizontal or vertical

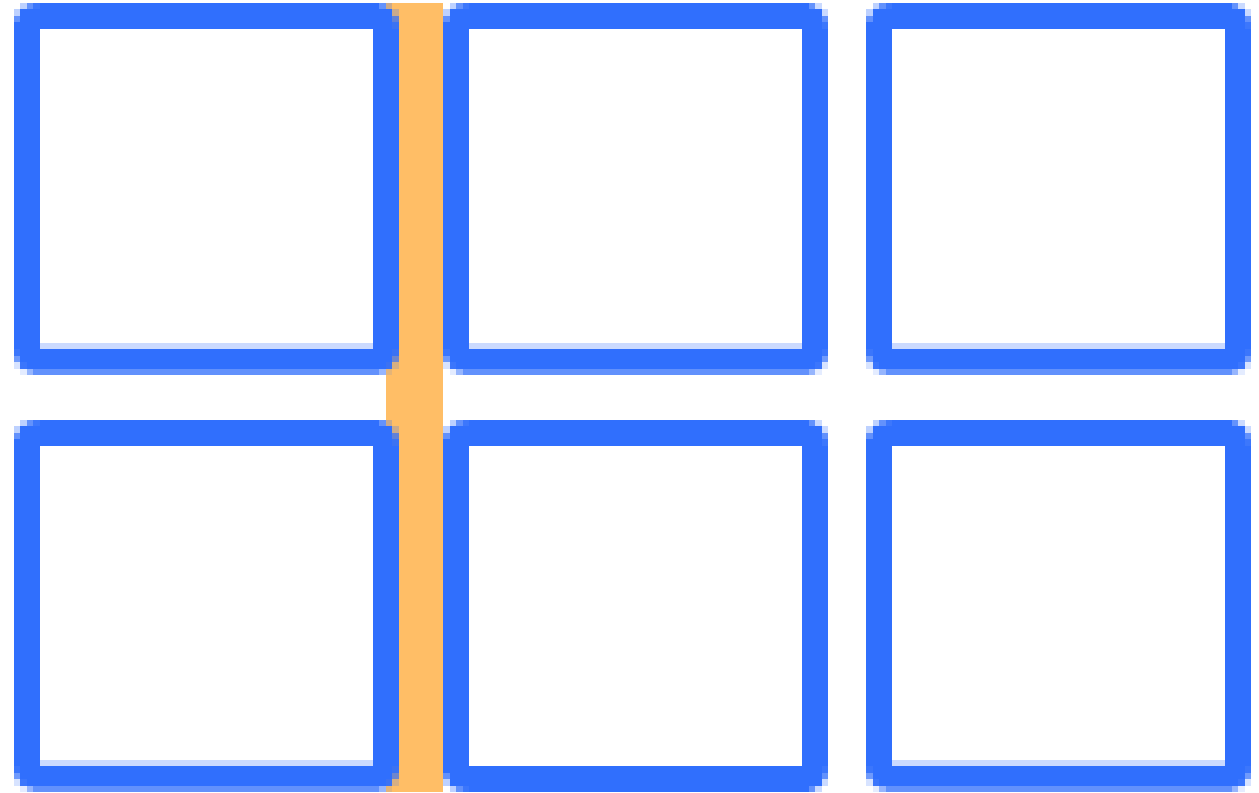
**Grid column:** a vertical track

**Grid row:** a horizontal track



# Grid Gutter

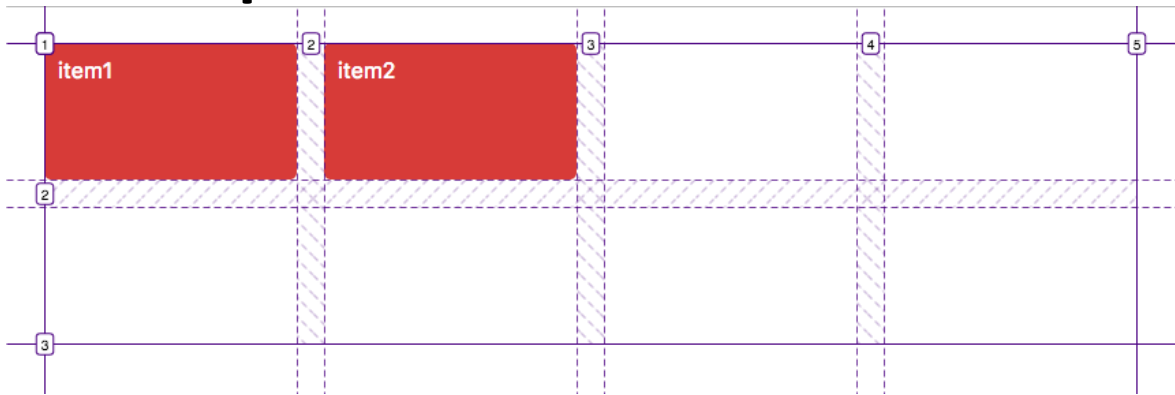
The optional space between rows and columns in a grid



# The explicit and implicit grid

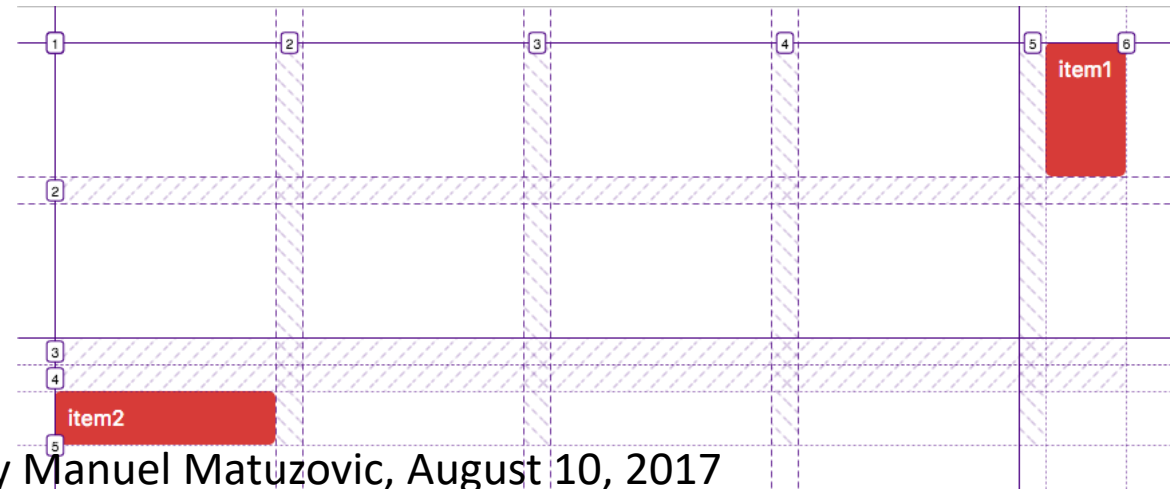
## Explicit Grid

- When you use:  
**grid-template-columns** and  
**grid-template-rows**
- Everything you setup *within* the column and row tracks are **explicit**



## Implicit Grid

- When you use:  
**grid-auto-columns** and  
**grid-auto-rows**  
everything is "implicit"



CSS Tricks, **The Difference Between Explicit and Implicit Grids**, by Manuel Matuzovic, August 10, 2017

<https://css-tricks.com/difference-explicit-implicit-grids/#implicit-grids>



# Using the Grid Lines for Positioning

- Use CSS properties...  
**grid-column-start** and **grid-column-end**, or **grid-row-start** and **grid-row-end**  
...to have cells *span* tracks
- Or use their shortcut counterparts:  
**grid-column** and **grid-row**  
e.g.  
`grid-column: 1 / 4;`  
`grid-row: 1 / 3;`

