

SC101

Lecture 8

Web Development

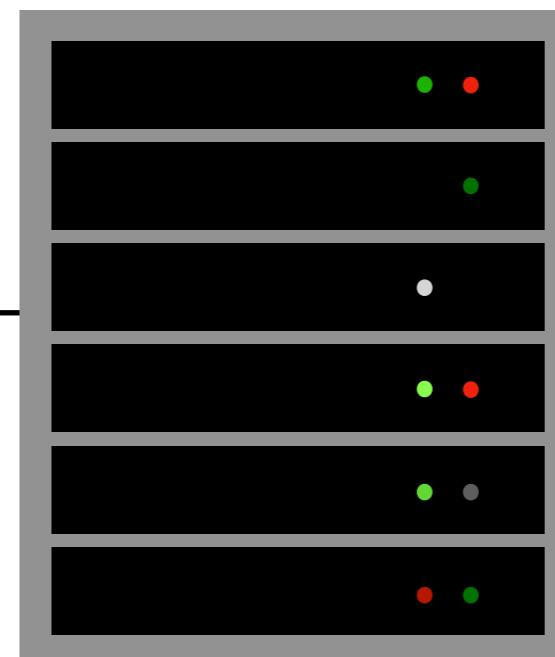
Web

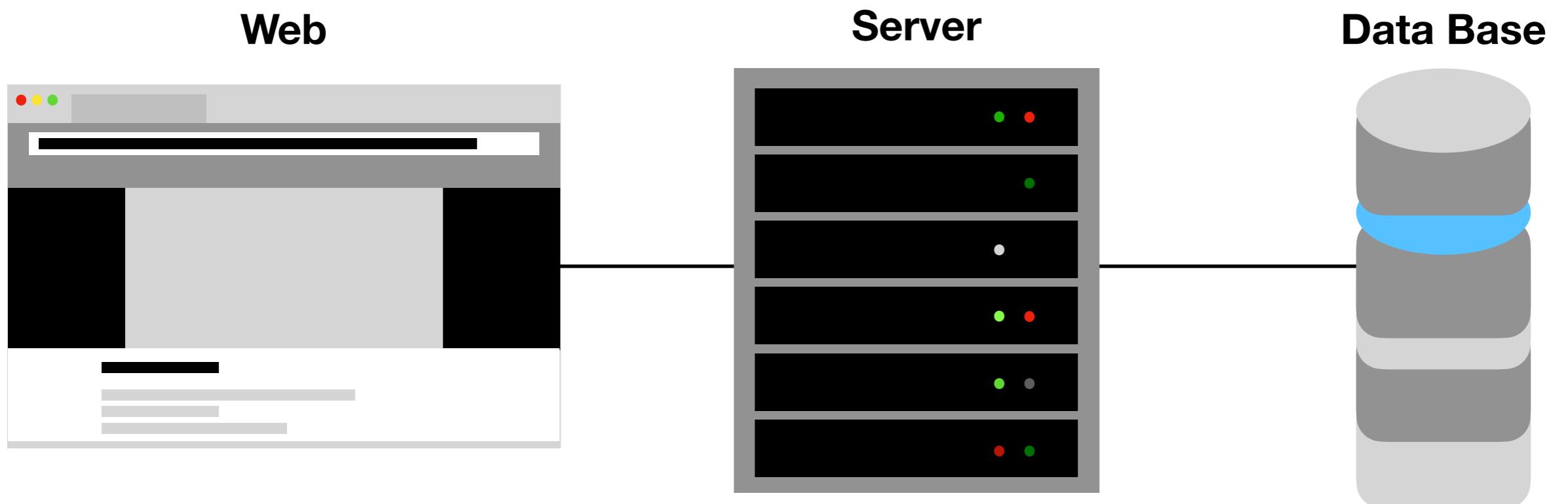


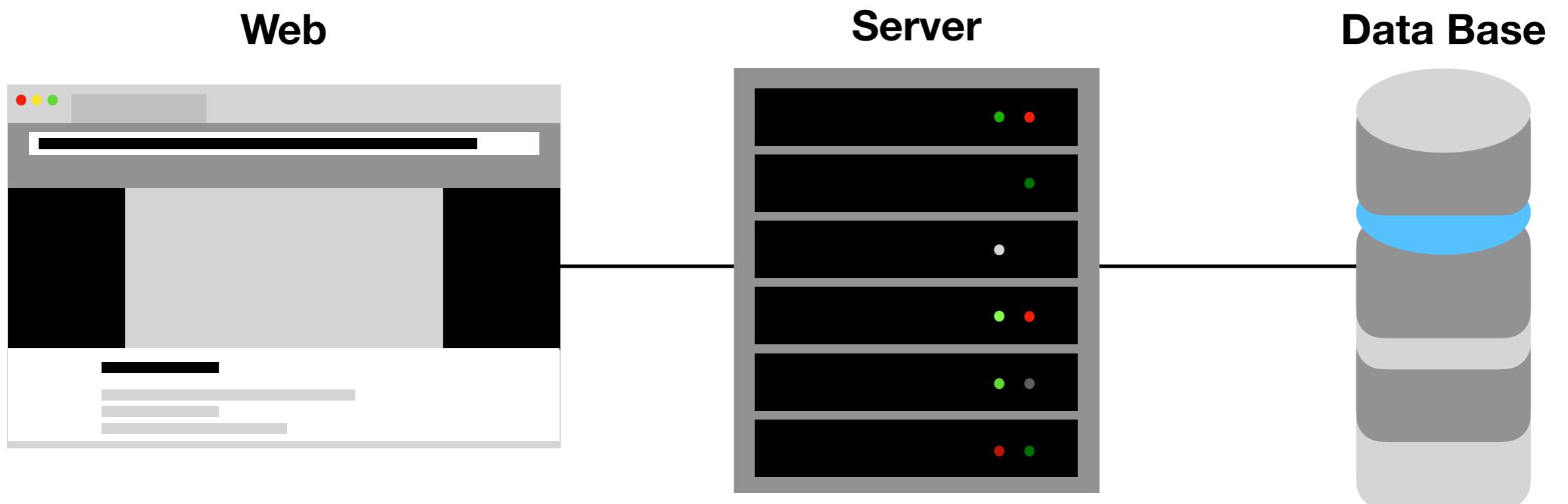
Web

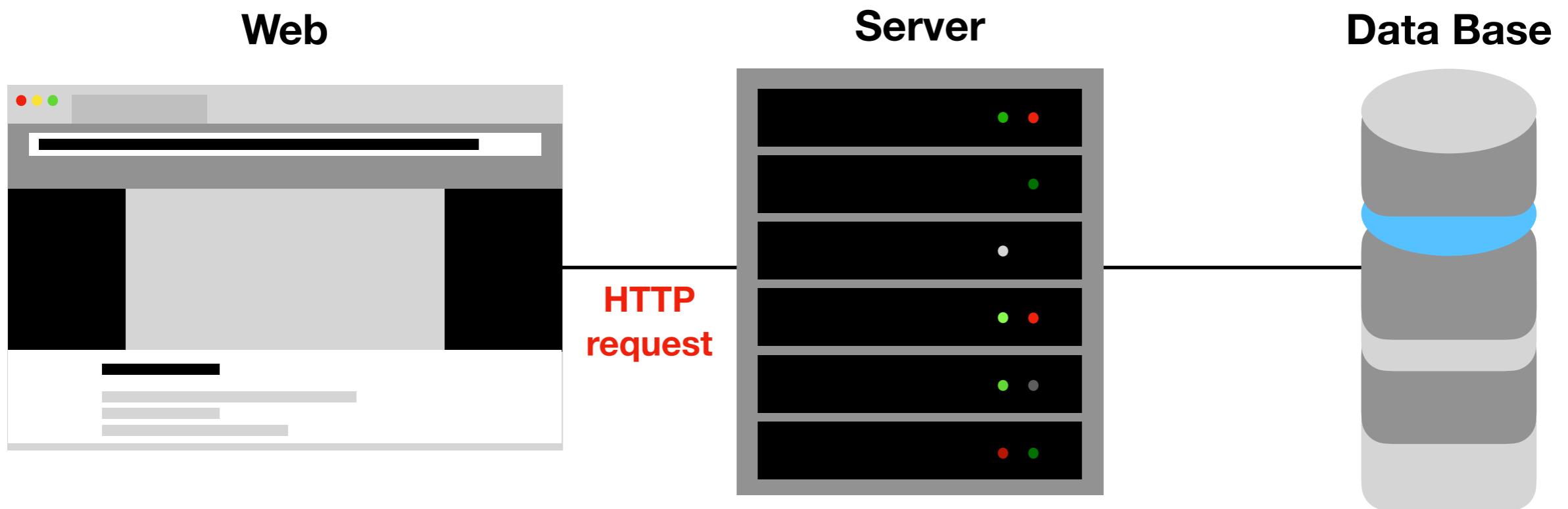


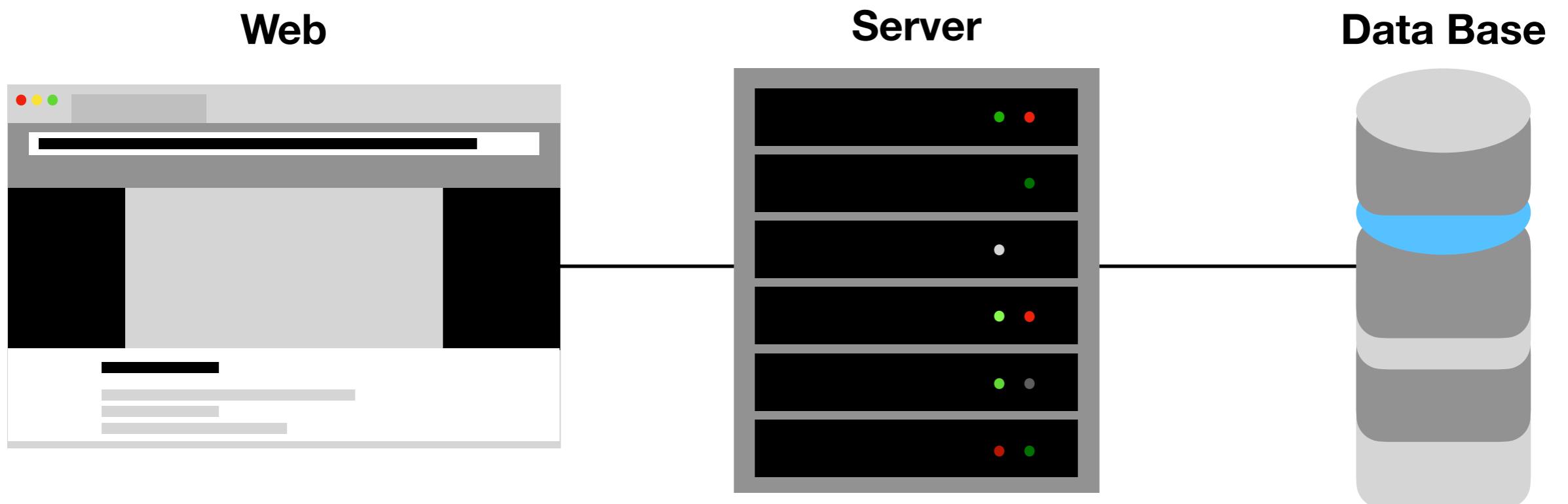
Server













Front End Developer



Front End Developer

Back End Developer

HTML Only

 Computer Programmers
This topic is about the people who call themselves "Computer Programmers". This includes things like the culture of computer programming, social issues, technical issues, job i...
[Unfollow](#) 167.4k
[Topics](#) [Bookmarks](#)
[Search For Topics to Bookmark](#)

 Al Klein wrote this · [Computer Programmers](#)
- 10h Founders
and
Which laptop do programmers use?

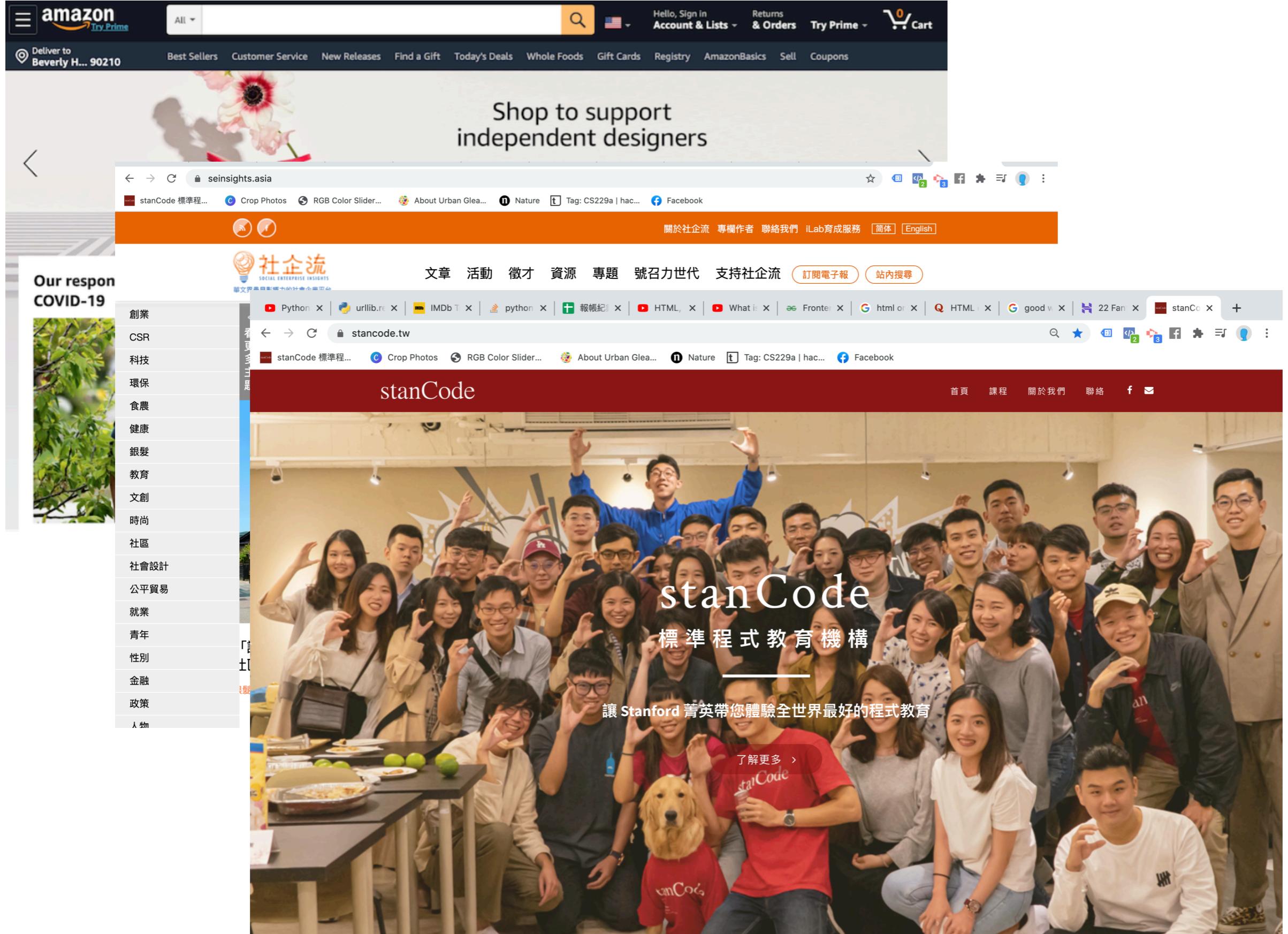
- Ok, how does it cost?
 [Learning to Program](#)
-  Education
Al Klein 43 years of earning a living developing systems.
[Written 3h ago](#)
-  [Web Design](#)
Real programmers? The one they prefer.
- How much does it cost? Anywhere between \$100 and \$1,500.
 [Mobile](#)
-  Applications
You don't buy extreme power to write HTML. You don't waste money to compile 5,000 lines of C++ or 50,000 lines of T-SQL.
- A real programmer doesn't choose by brand, size (or, in languages by commands or "pretty-ness"), but by fitting the tool to the job. Many programs can't be compiled on laptops (just try installing a few 25 million record database tables on a laptop), so they use desktops or minis.
 [React \(JS\)](#)
-  Library
It's like  which <insert tool name> any <insert trade> uses. Sure you can patch a tire with a small hole with hand-held tools, but the guy working on the tires of those huge earth-movers in Minnesota doesn't patch 6" holes in *those* tires with hand-tools.

4.9K Views · [View Upvotes](#)
Loading
 Charles Dickens
[Upvote](#) [Downvote](#)
[Comment](#) [Author](#)
[Copy](#)  [Embed](#)
[More](#) [Reddit](#)
[Share](#) [\(product\)](#)


250 Trigonometry
[Search](#) (mathematics)
[Search](#) a photo [Upload](#)
Search for a photo or upload your own
Powered by [Probability](#)
(statistics)
[Comment](#)

 [Edit](#)
Vines Fidelman
1 vote
by • [Top Stories](#)
[Derek Baker](#)
• [People You](#)
[Follow](#)

To pick a minor net - 25million records, on a modern laptop, isn't all that much.



Let's build a Website!

<https://developer.mozilla.org/en-US/docs/Web/HTML/Element/br>

Web Crawler



IMDb

All

Search IMDb



Jerry



Elements

Console Sources

Network Performance

Memory

App

IMDb Charts

Top Rated Movies

Top 250 as rated by IMDb Users

Showing 250 Titles

Sort by: Ranking

IMDb Rating	Your Rating
-------------	-------------

Rank & Title

	1. 刺激1995 (1994)		9.2	
	2. 教父 (1972)		9.1	
	3. 教父第二集 (1974)		9.0	
	4. 黑暗騎士 (2008)		9.0	
	5. 十二怒漢 (1957)		8.9	
	6. 辛德勒的名單 (1993)		8.9	
	7. 魔戒三部曲：王者再臨 (2003)		8.9	
	8. 黑色追緝令 (1994)		8.8	

```
ce5f3bba" data-userid="ur101827900" data-pagetype="chart" data-tp="">>
```

```
<div class="seen-collection" data-collectionid="top-250">
```

```
<div class="article">
```

```
<h3>IMDb Charts</h3>
```

```
<div class="chart-social-sharing-widget" id="social-sharing">
```

```
<h1 class="header">Top Rated Movies</h1>
```

```
<div class="byline">Top 250 as rated by IMDb Users</div>
```

```
<hr>
```

```
<div class="lister">
```

```
<div>...</div>
```

```
<br class="clear">
```

```
<table class="chart full-width" data-caller-name="chart-t">
```

```
<colgroup>...</colgroup>
```

```
<thead>...</thead>
```

```
<tbody class="lister-list">
```

```
<tr>
```

```
<td class="posterColumn">...</td>
```

```
<td class="titleColumn">
```

```
"
```

```
1.
```

```
"
```

```
<a href="/title/tt0111161/?pf_rd_m=A2FGELUUN0QJNLQ4WP2&pf_rd_s=center-1&pf_rd_t=15506&pf_rd_i=top&r., Tim Robbins, Morgan Freeman">刺激1995</a>
```

```
<span class="secondaryInfo">(1994)</span>
```

```
</td>
```

```
<td class="ratingColumn imdbRating">
```

```
<strong title="9.2 based on 2,315,883 user rating">
```

```
</td>
```

```
<td class="ratingColumn">...</td>
```

```
<td class="watchlistColumn">...</td>
```

```
</tr>
```

```
<tr>
```

```
<td class="posterColumn">...</td>
```

```
<td class="titleColumn">
```

```
"
```

```
2.
```

```
"
```

```
... span.ab_widget div.seen-collection div.article div.lister table.chart.full-width tbody.lister
```

```
⋮ Console What's New ×
```

```
Highlights from the Chrome 87 update
```

New CSS Grid debugging tools

Debug and inspect CSS Grid with the new CSS Grid debugging tools.

New WebAuthn tab

Emulate authenticators and debug the Web Authentication API with the new WebAuthn tab.

Move tools between top and bottom panel

Move tools in DevTools between the top and bottom panel.

<Mac>

```
python3 -m pip install requests  
python3 -m pip install bs4
```

<Windows>

```
py -m pip install requests  
py -m pip install bs4
```

```
def main():
    d
    d
    a
    c
    c
    c
    c
    c
    c
    c
    c
    c
    c
    c
    c
    c
    d
    d
    d
    d
    d
    d
    d
    d
    d
    d
    d
    d
    d
    d
    d
    d
    d
    d
    d
    def factorial(n):
        return n * factorial(n-1)
```

Stack Overflow

```
def main():
    d
    d
    d
    d
    def factorial(n):
        return n * factorial(n-1)
    0
```

Base Case

```
def factorial(n):
    if n == 0:
        return 1
    else:
        return n * factorial(n-1)
```

The diagram illustrates the recursive calls for calculating the factorial of 5. It shows six overlapping dark grey rectangles representing the call stack. Above each rectangle, a red number indicates the current value of *n*: 5, 4, 3, 2, 1, and 0. The code itself is a Python function definition for `factorial(n)`.

```
def factorial(n):
    if n == 0:
        return 1
    else: 1
        return n * factorial(n-1)
```

```
def factorial(n):
    if n == 0:
        return 1
    else: 2
        return n * factorial(n-1)
```

The diagram illustrates the recursive call stack for the factorial function. It shows five nested calls to `factorial` with arguments 5, 4, 3, 2, and 1 respectively. The argument 1 is highlighted in cyan.

```
def factorial(n):
    if n == 0:
        return 1
    else:
        return n * factorial(n-1)
```

5

4

3

2

2

```
def factorial(n):  
    if n == 0:  
        return 1  
    else:  
        return n * factorial(n-1)
```

6

```
def factorial(n):
    if n == 0:
        return 1
    else:
        return n * factorial(n-1)
```

24

```
def main():
    print(factorial(5))
```

120