



MAKING CSS FROM GOOD TO GREAT

SINGLISH EDITION

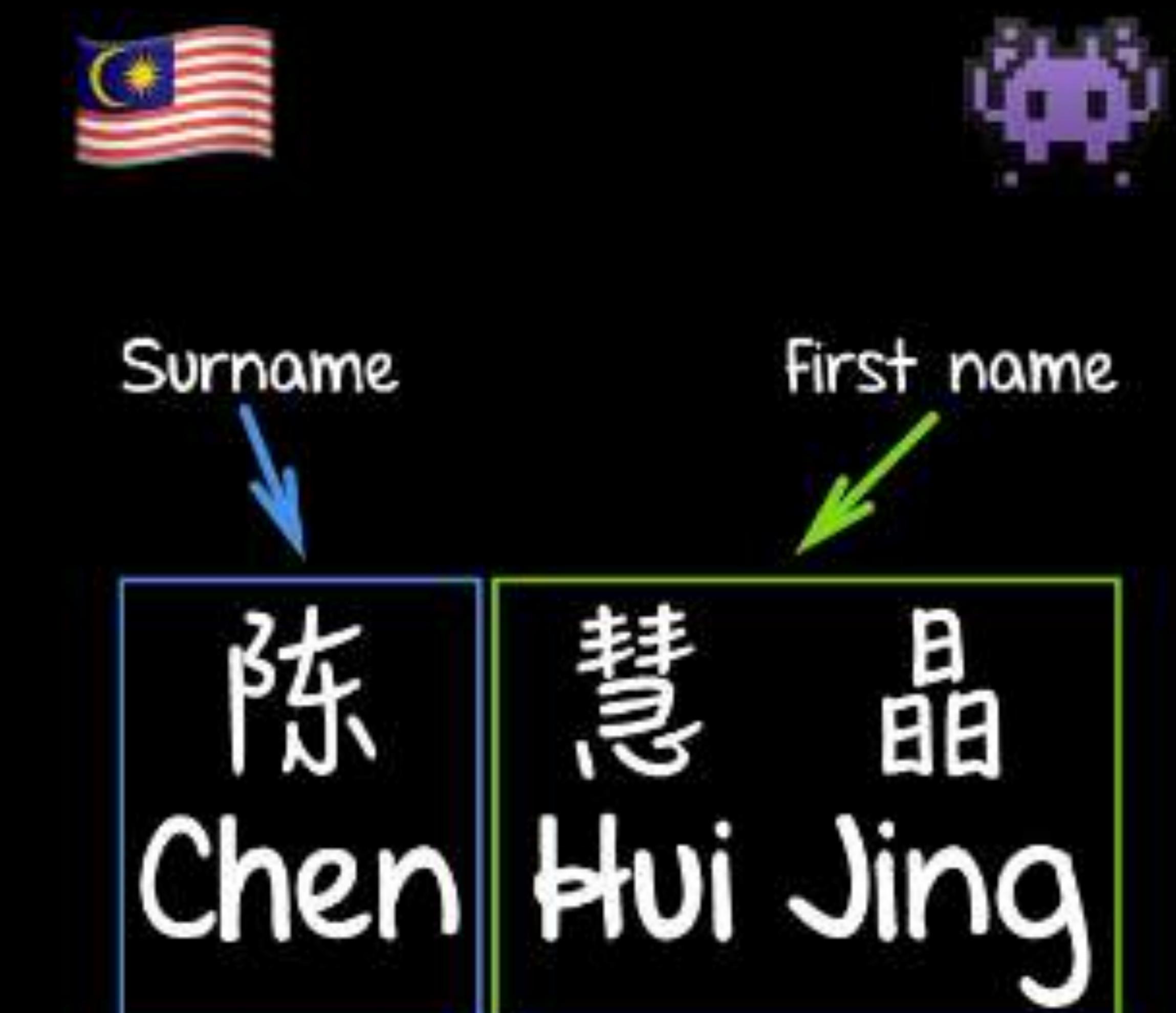


THE SINGAPORE SUBGRID

Hui Jing / @hj_chen

😊 SINGLISH-O-METER 🤔





@hj_chen

Singlish lesson: Tok Kong

Hokkien term meaning “superb” or “top of the line”. In Mandarin, it's possible to write it as “督公 (dū gōng)” “Have you used CSS grid to build layout? It's super tok kong!”

Source: [The Oxford Singlish Dictionary](#)

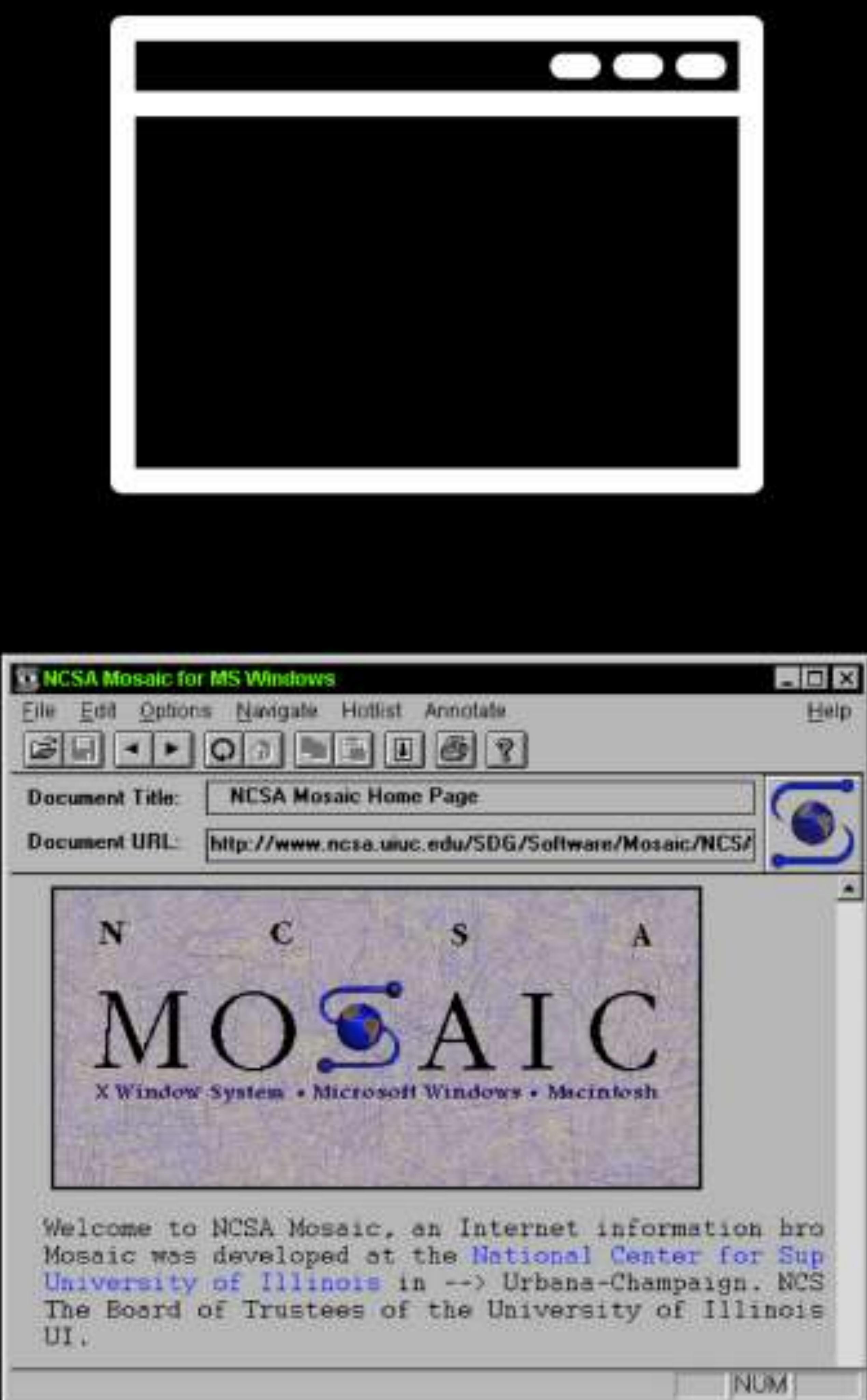


Developer Advocate

nexmo®

The Vonage® API Platform

WEB LAYOUTS OVER THE YEARS

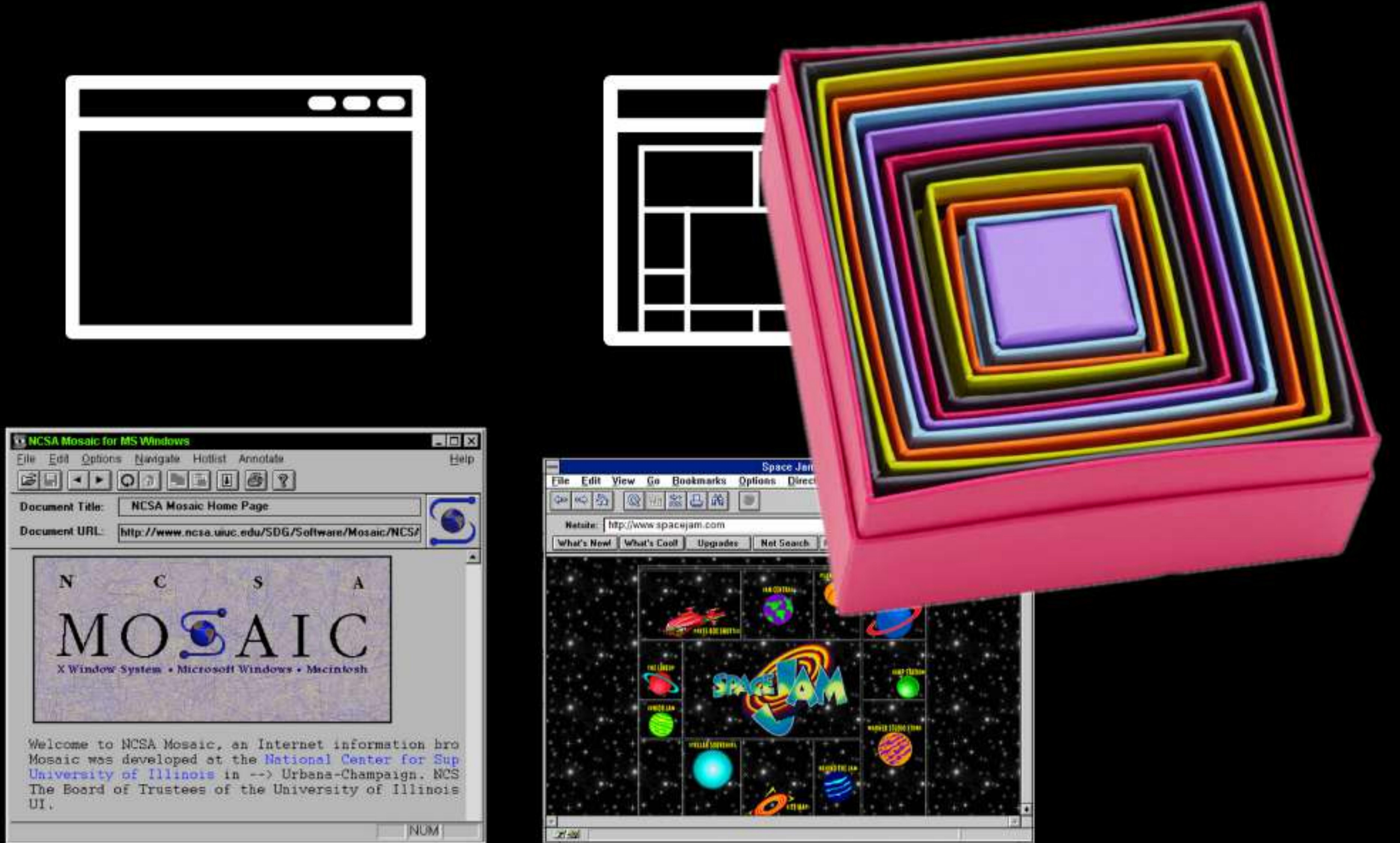


Singlish lesson: Swee

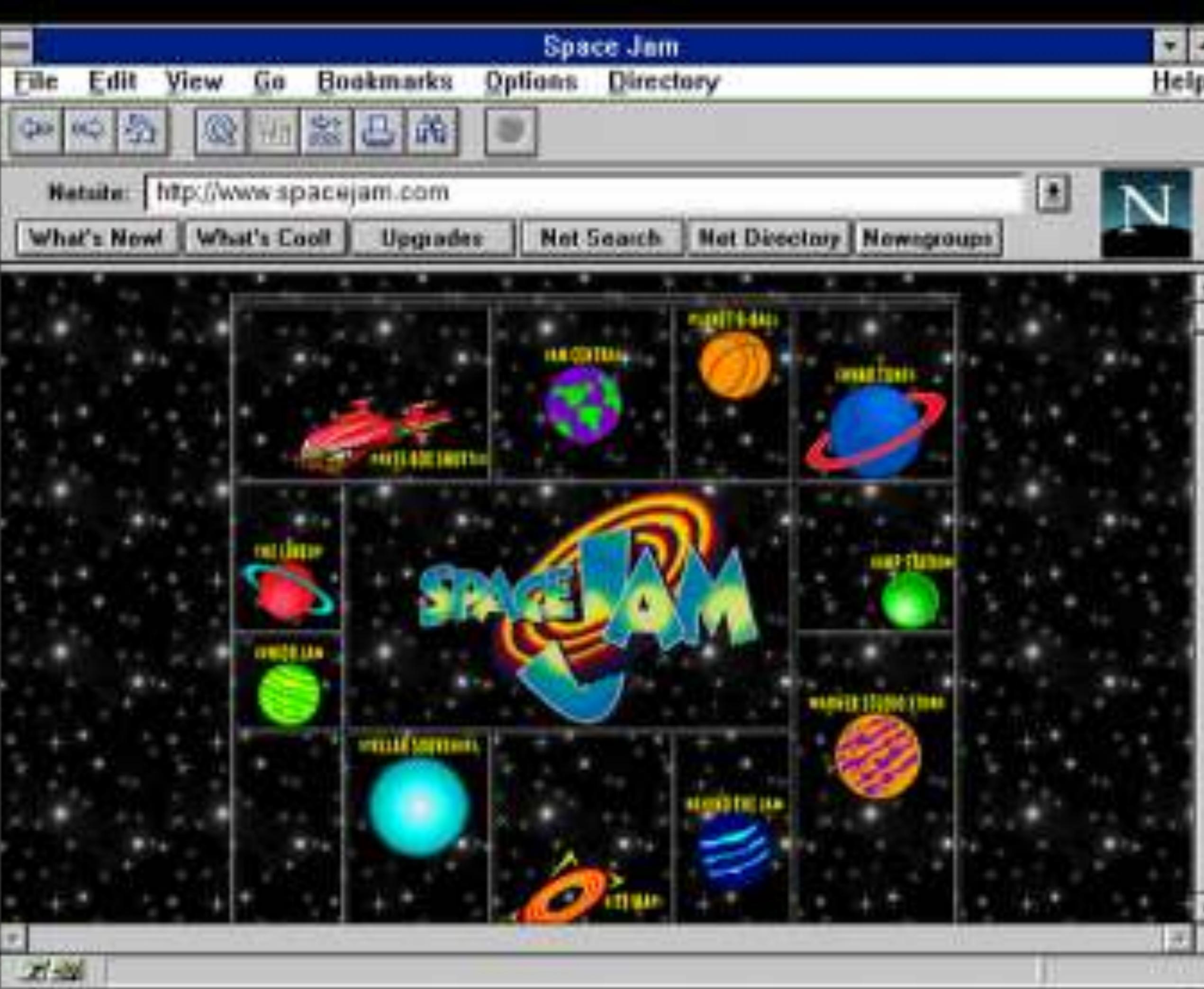
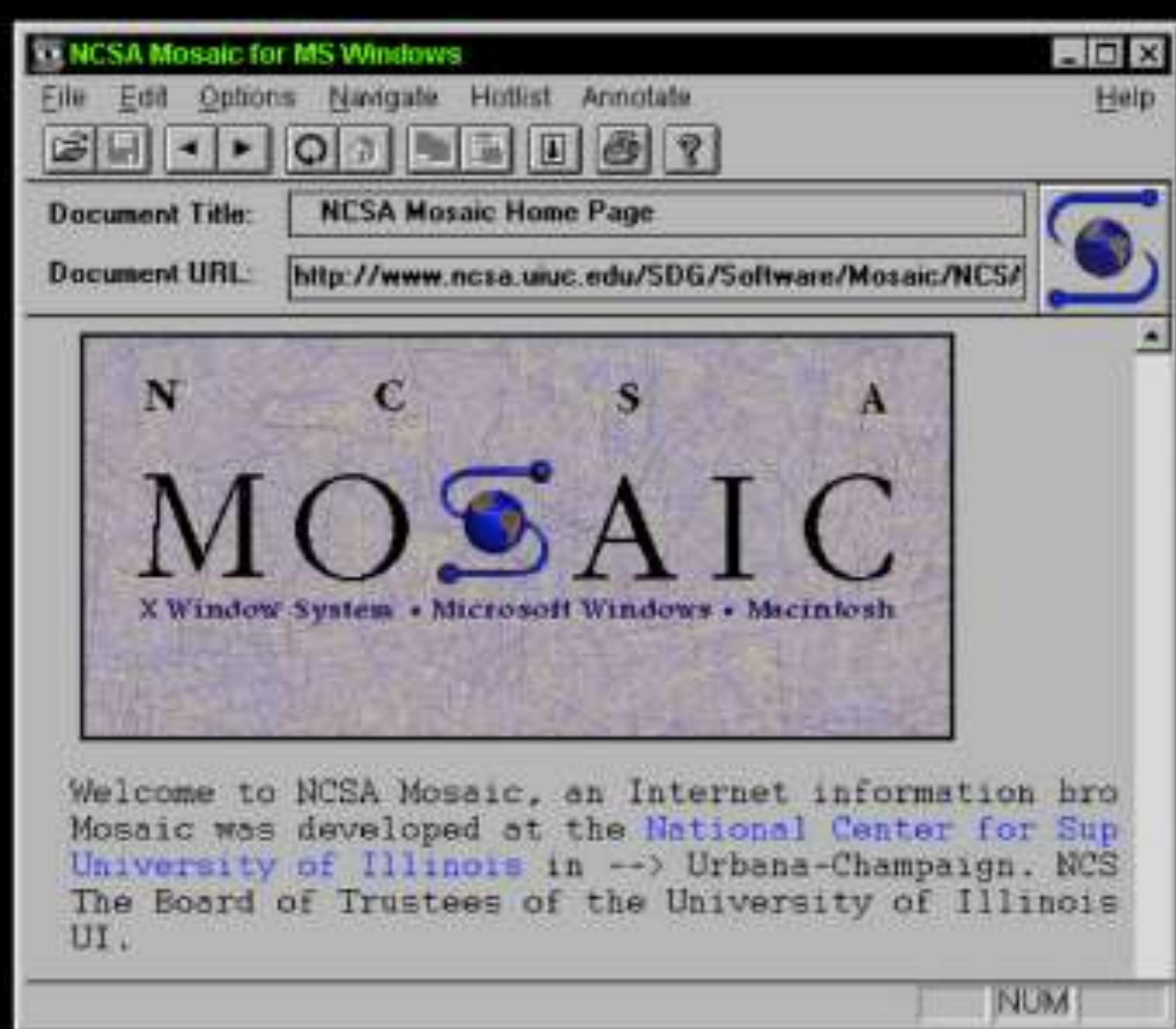
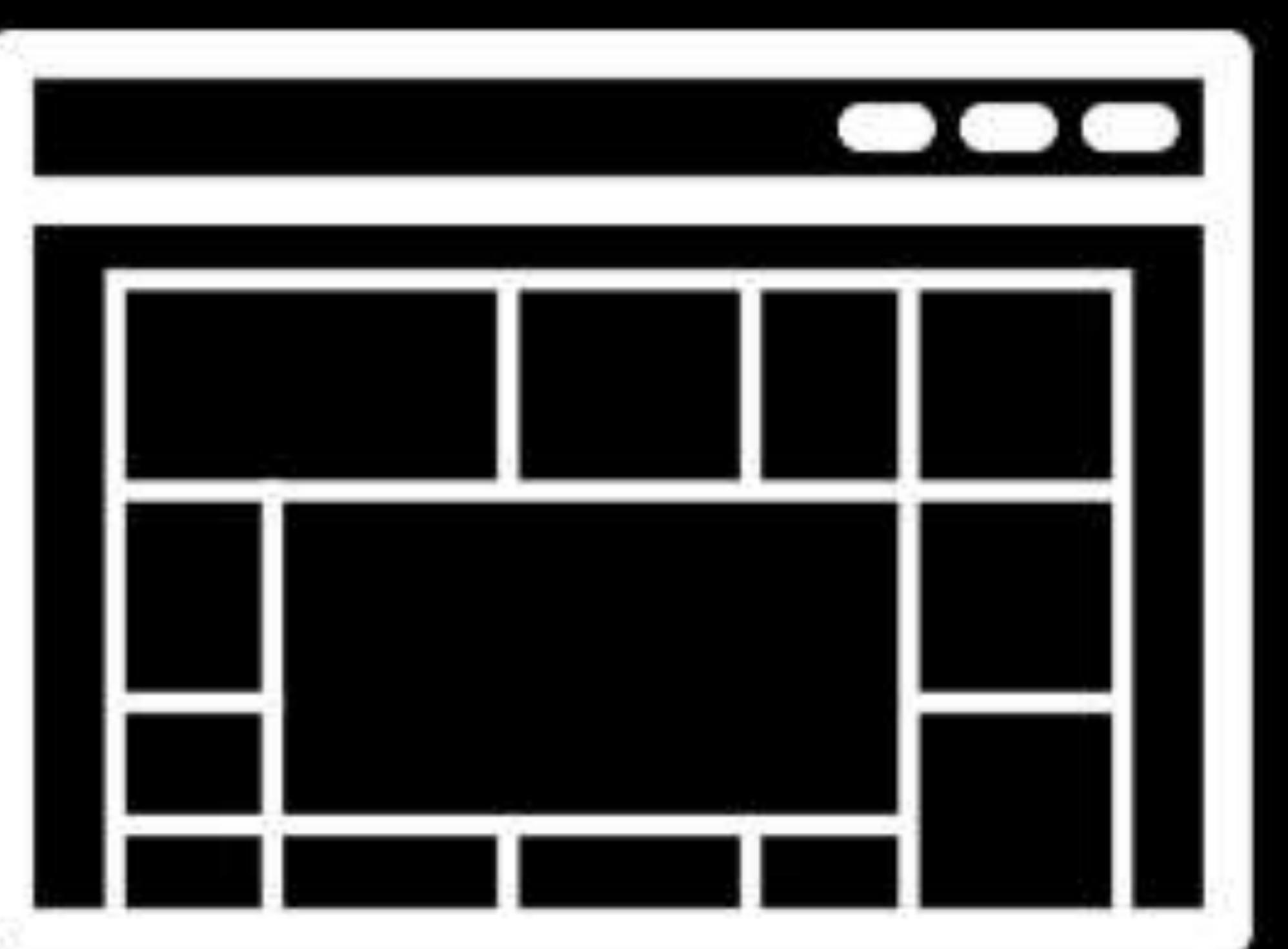
Hokkien for “pretty” or “beautiful”. Also used to describe something as properly or correctly done.
“This layout do until very swee leh.”

Source: [The Coxford Singlish Dictionary](#)

WEB LAYOUTS OVER THE YEARS



WEB LAYOUTS OVER THE YEARS



Singlish lesson: Jia lat

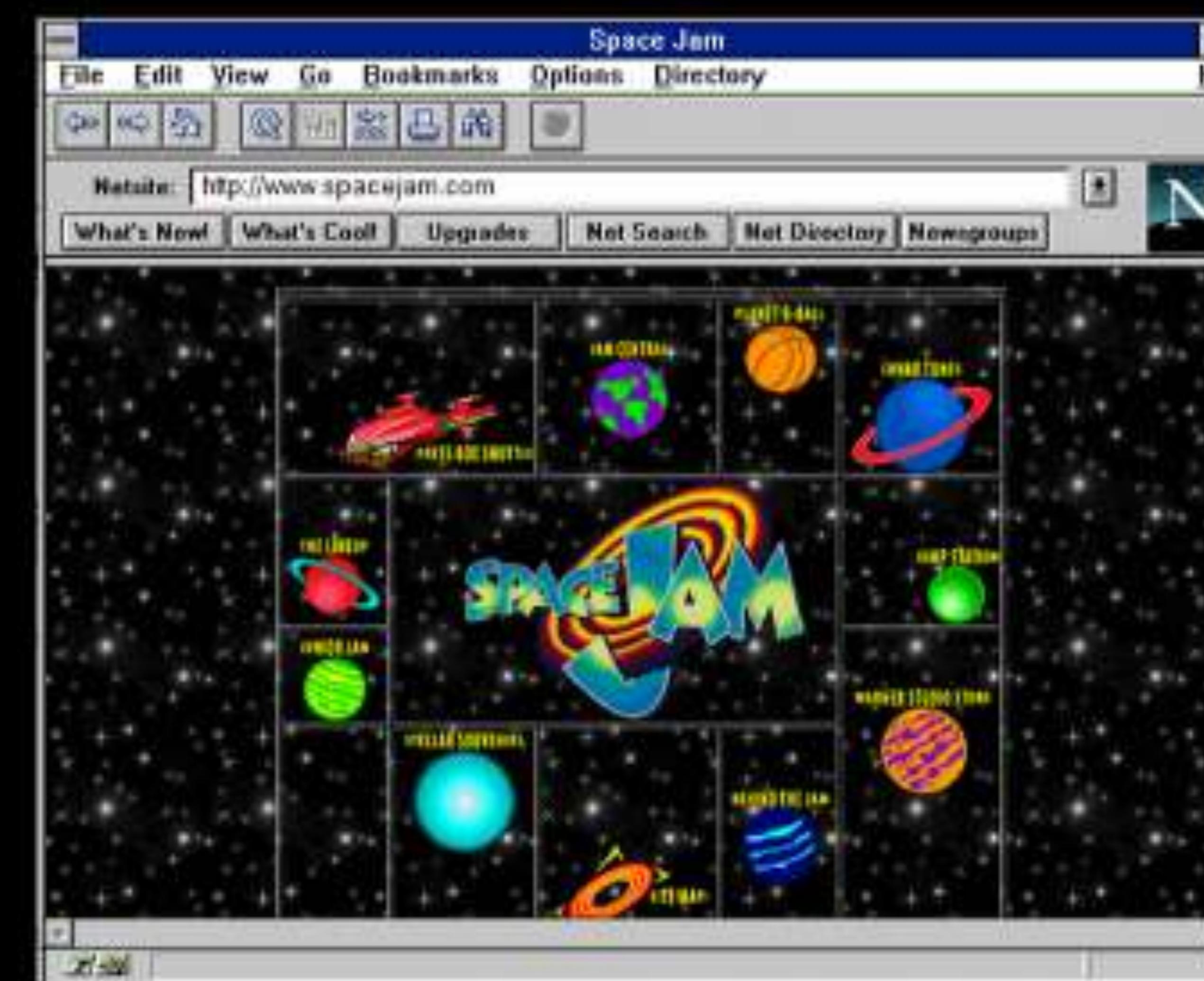
Hokkien adjective literally meaning "to eat strength". Means that a task is onerous and consumes one's energy. Can sometimes be used to denote being in trouble.

“Have you inspected Twitter lately? The markup nest until very jia lat leh.”

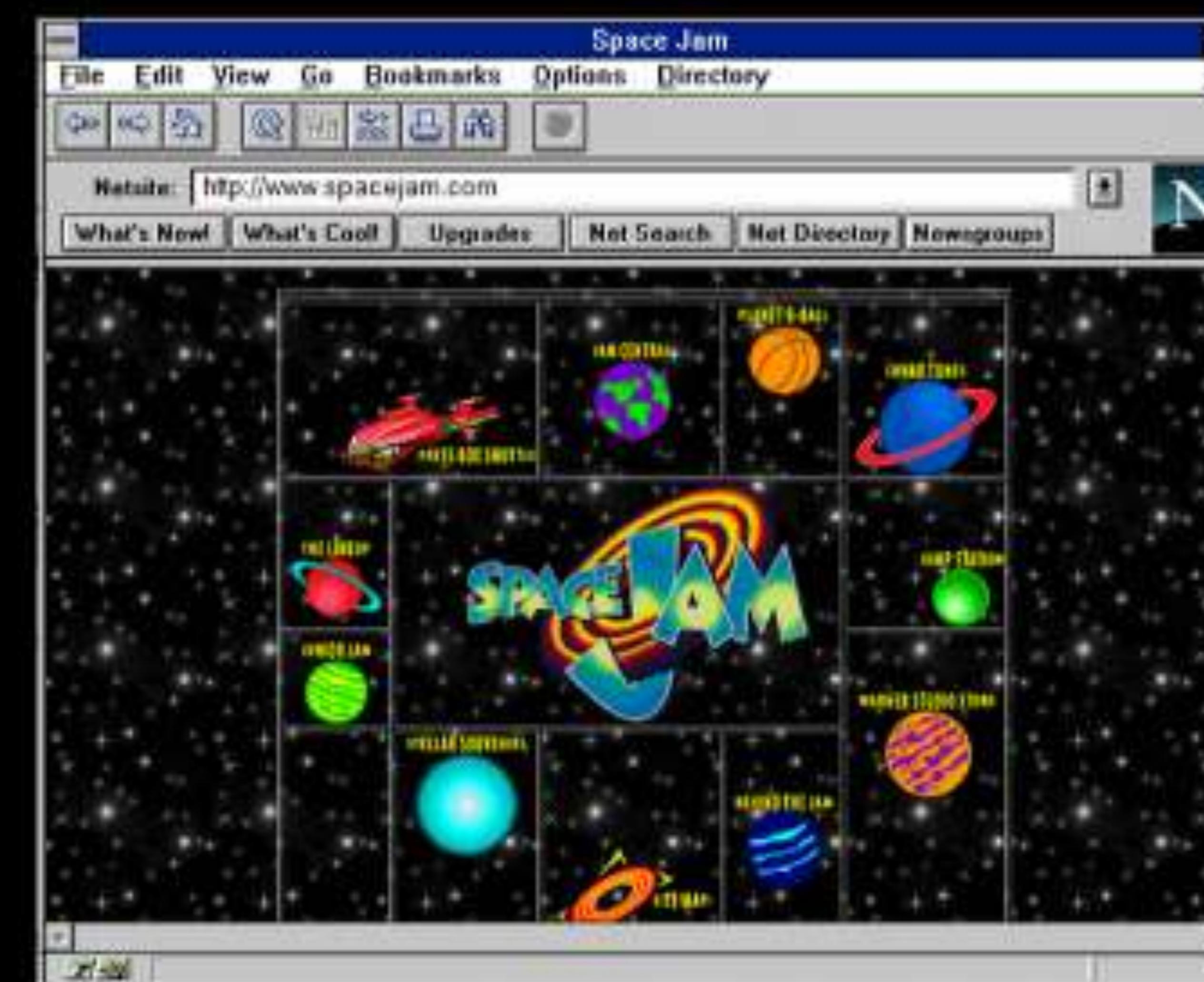
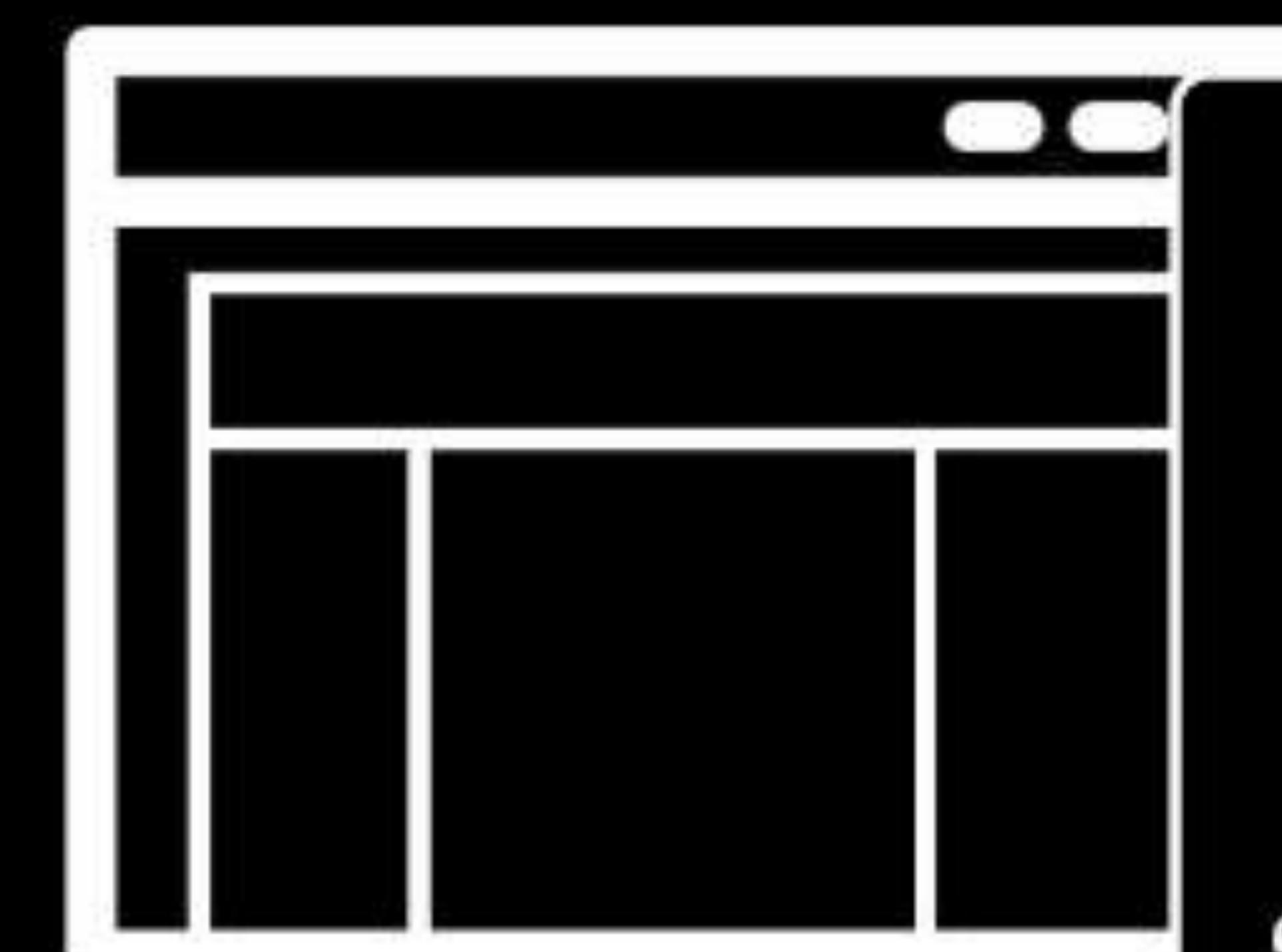
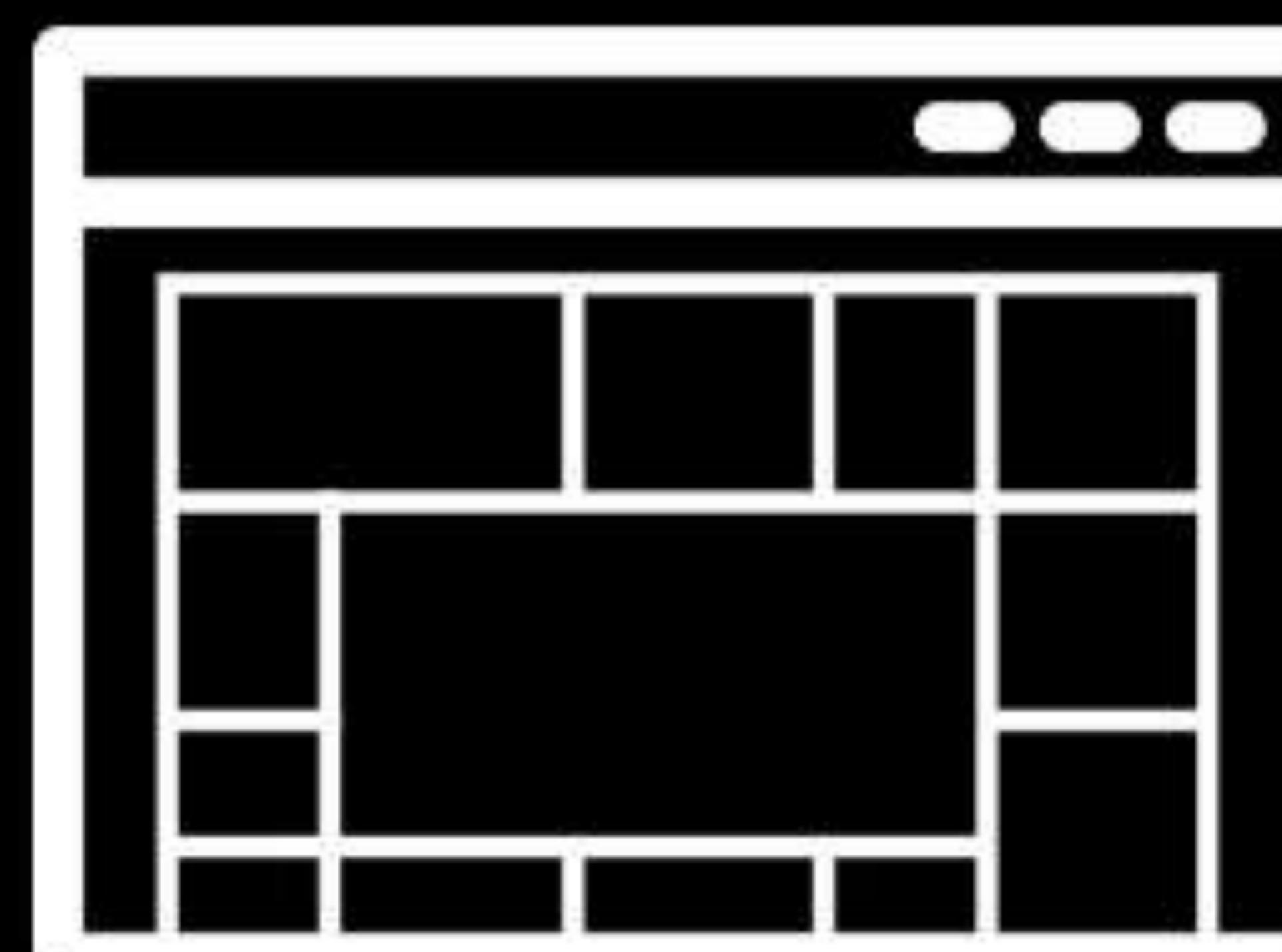
Source: [The Coxford Singlish Dictionary](#)



WEB LAYOUTS OVER THE YEARS



WEB LAYOUTS OVER THE YEARS



Singlish lesson: Senget

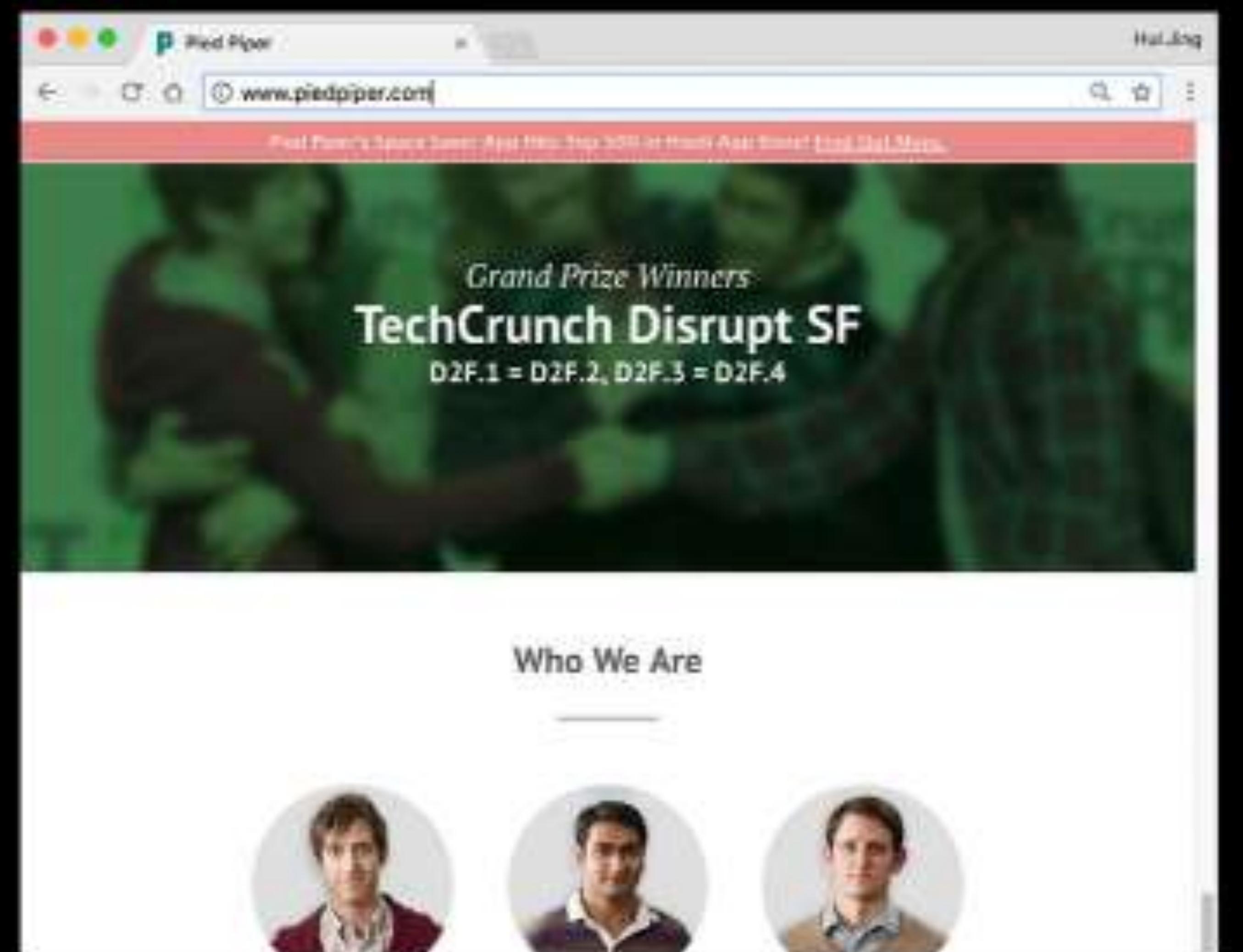
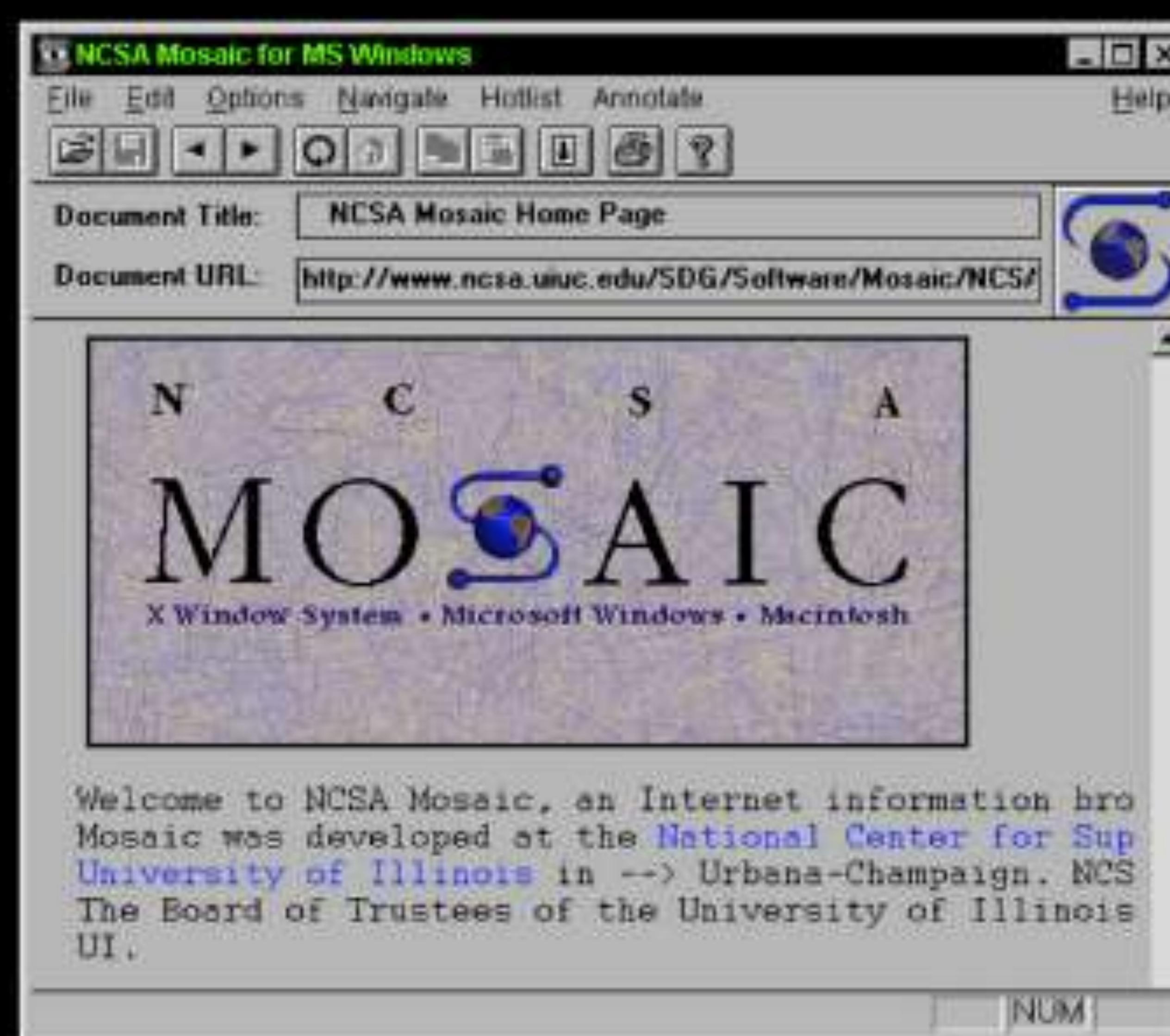
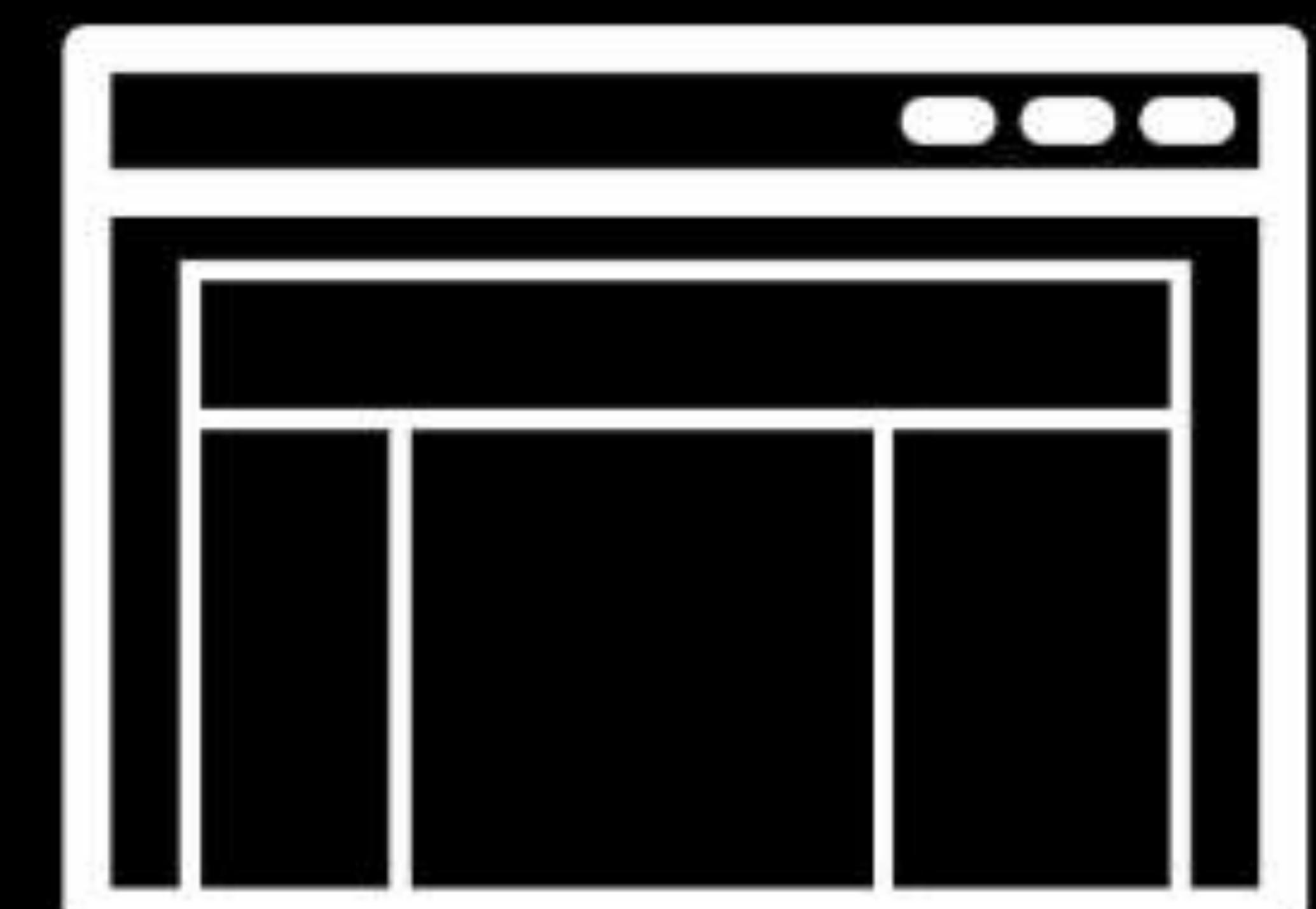
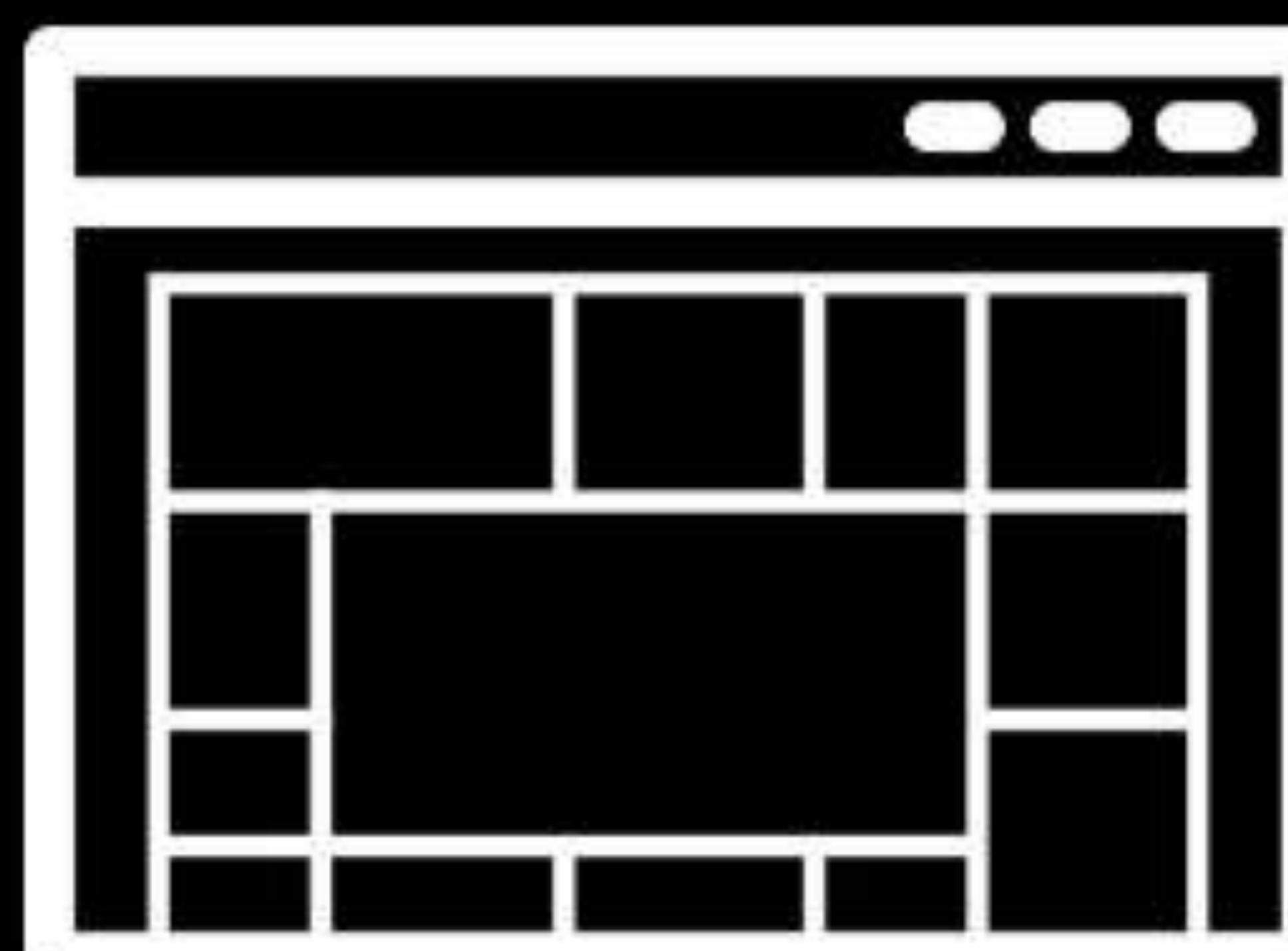
Malay for “slanted” or
“crooked”.

“How come the last item in
the row senget wan?”

Source: [The Coxford Singlish Dictionary](#)



WEB LAYOUTS OVER THE YEARS



 **Jon Gold**
@jongold

which one of the two possible websites are you currently designing?



10:40 AM · Feb 2, 2016 · [Wren for Mac](#)

4K Retweets 6.8K Likes

BLOCK LAYOUT

designed for laying out documents



INLINE LAYOUT

designed for laying out text

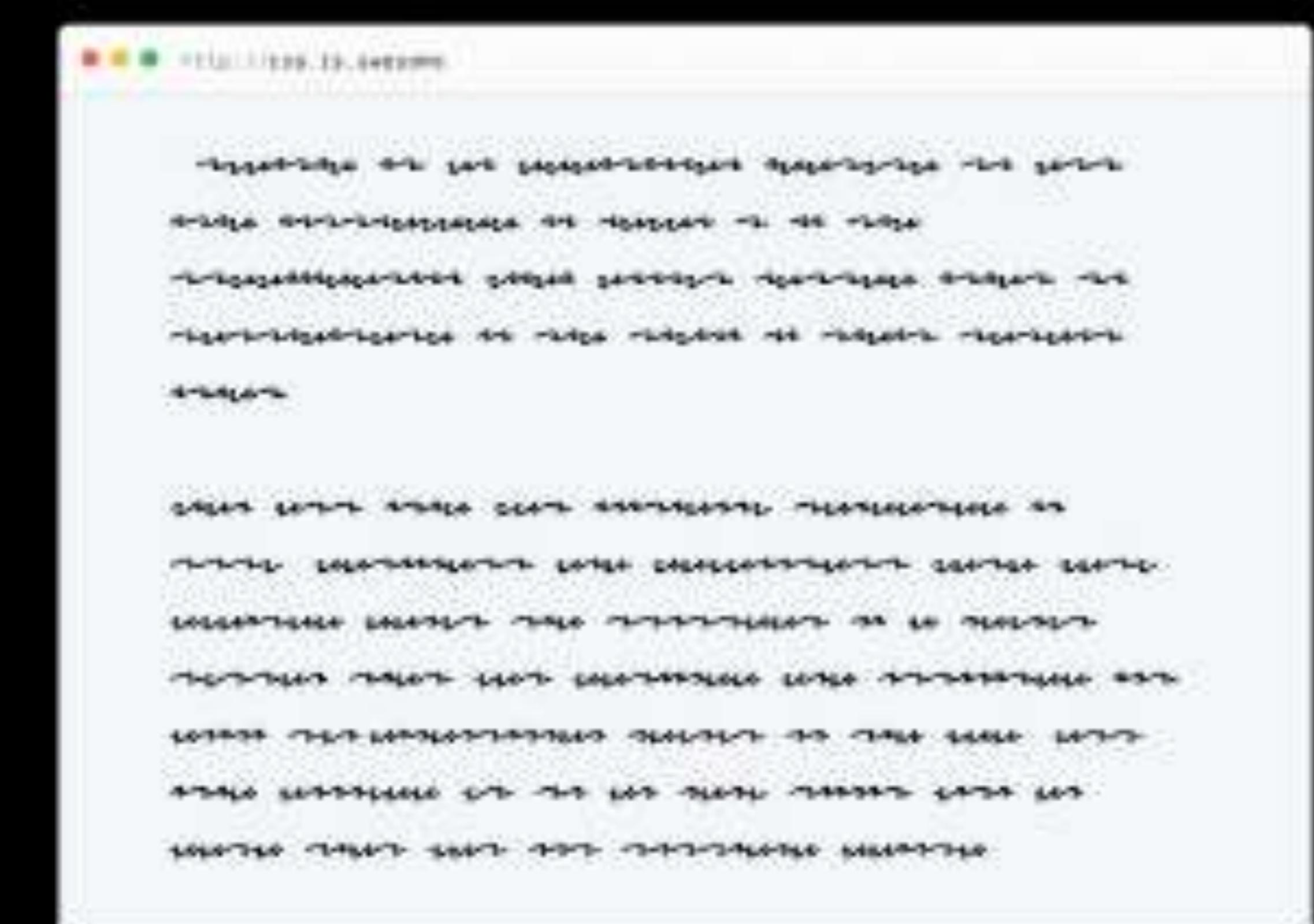


TABLE LAYOUT

designed for laying out 2D data in a tabular format



POSITIONED LAYOUT

designed for very explicit positioning without much regard for other elements in the document



FLEXIBLE BOX LAYOUT

describes a CSS box model optimised for **user interface design** and designed for laying out more **complex applications and webpages**

GRID LAYOUT

Defines a **two-dimensional** grid-based layout system,
optimised for **user interface design**.

WHY IS CSS GRID SPECIAL?

*“Grid works from the container in,
other layout methods start with the item”*

—Rachel Andrew

LAYOUT TECHNIQUE: inline-block

Item A	Item B	Item C
Item D	Item E	Item F

```
.inlineblock_item {  
  display: inline-block;  
  width: calc(100% / 3);  
}
```

LAYOUT TECHNIQUE: float

Item A	Item B	Item C
Item D	Item E	Item F

```
.float_item {  
  float: left;  
  width: calc(100% / 3);  
}
```

LAYOUT TECHNIQUE: flex

Item A

Item B

Item C

Item D

Item E

Item F

```
.flexbox {  
  display: flex;  
  flex-wrap: wrap;  
}  
  
.flexbox__item {  
  flex: 0 0 calc(100% / 3);  
}
```

“ *Grid is the only layout technique that establishes a relationship between rows and columns of grid items.* ”

“ *Grid is the
relations
items.*”

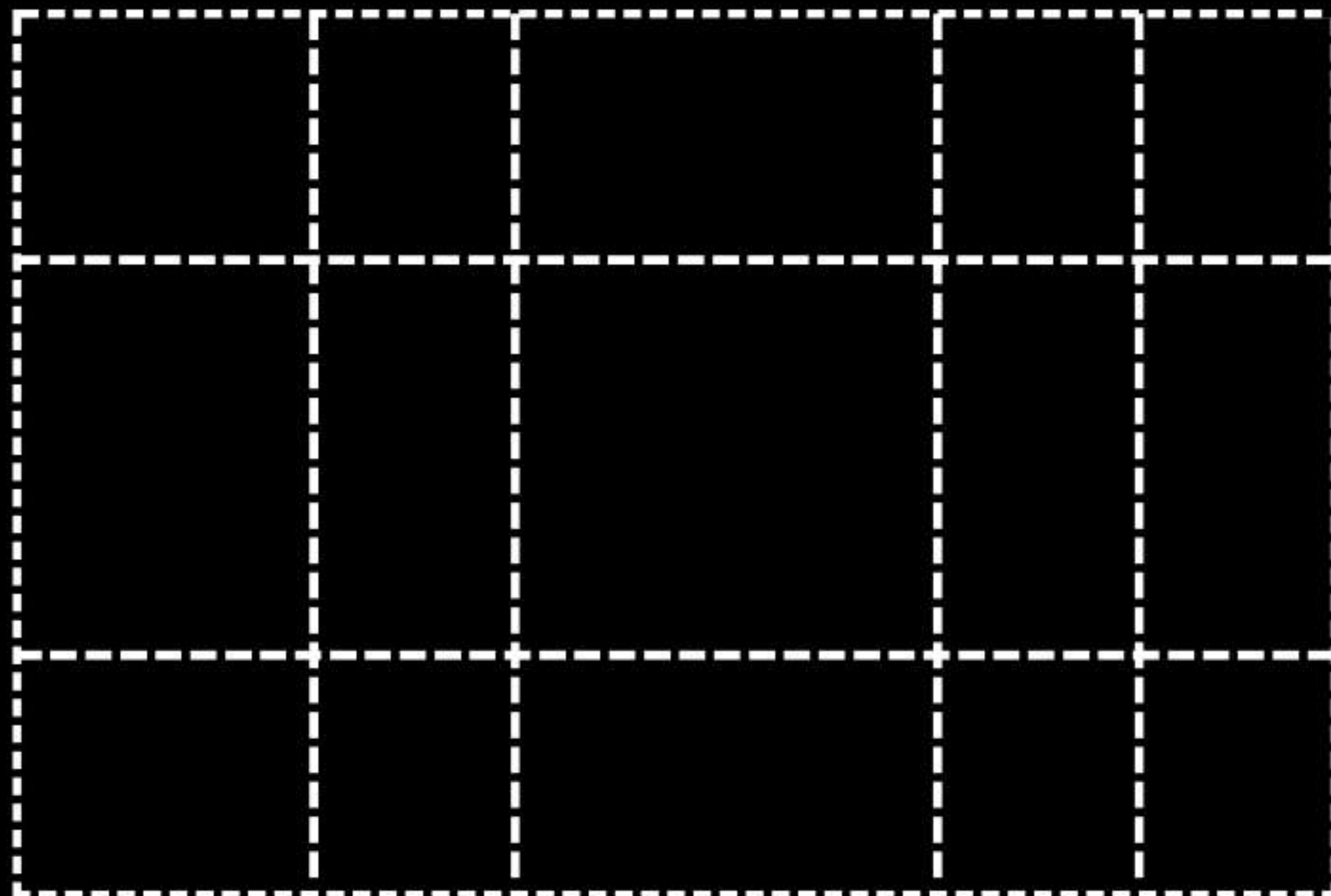


*shes a
rid*

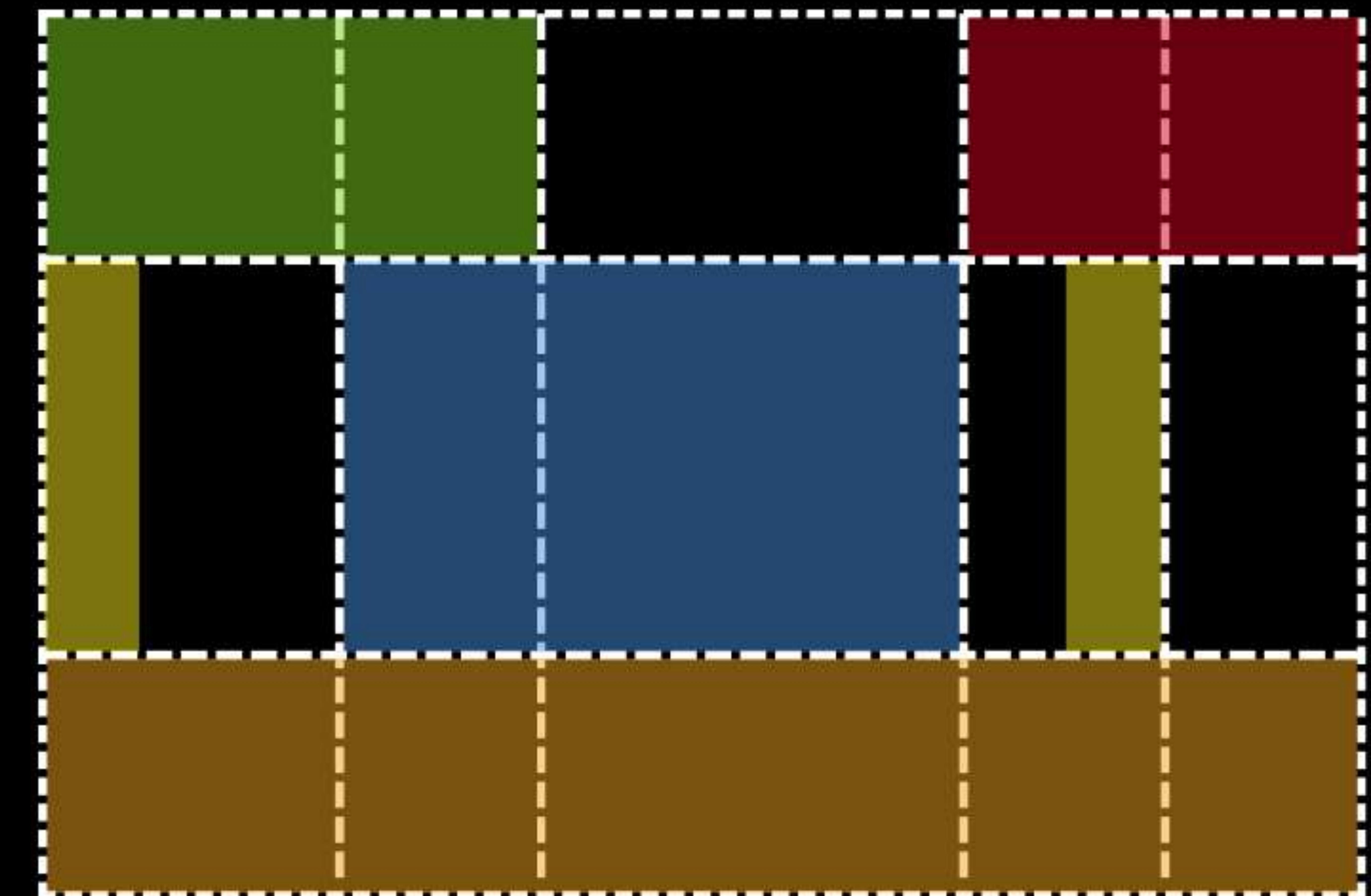
”

BASICS OF CSS GRID

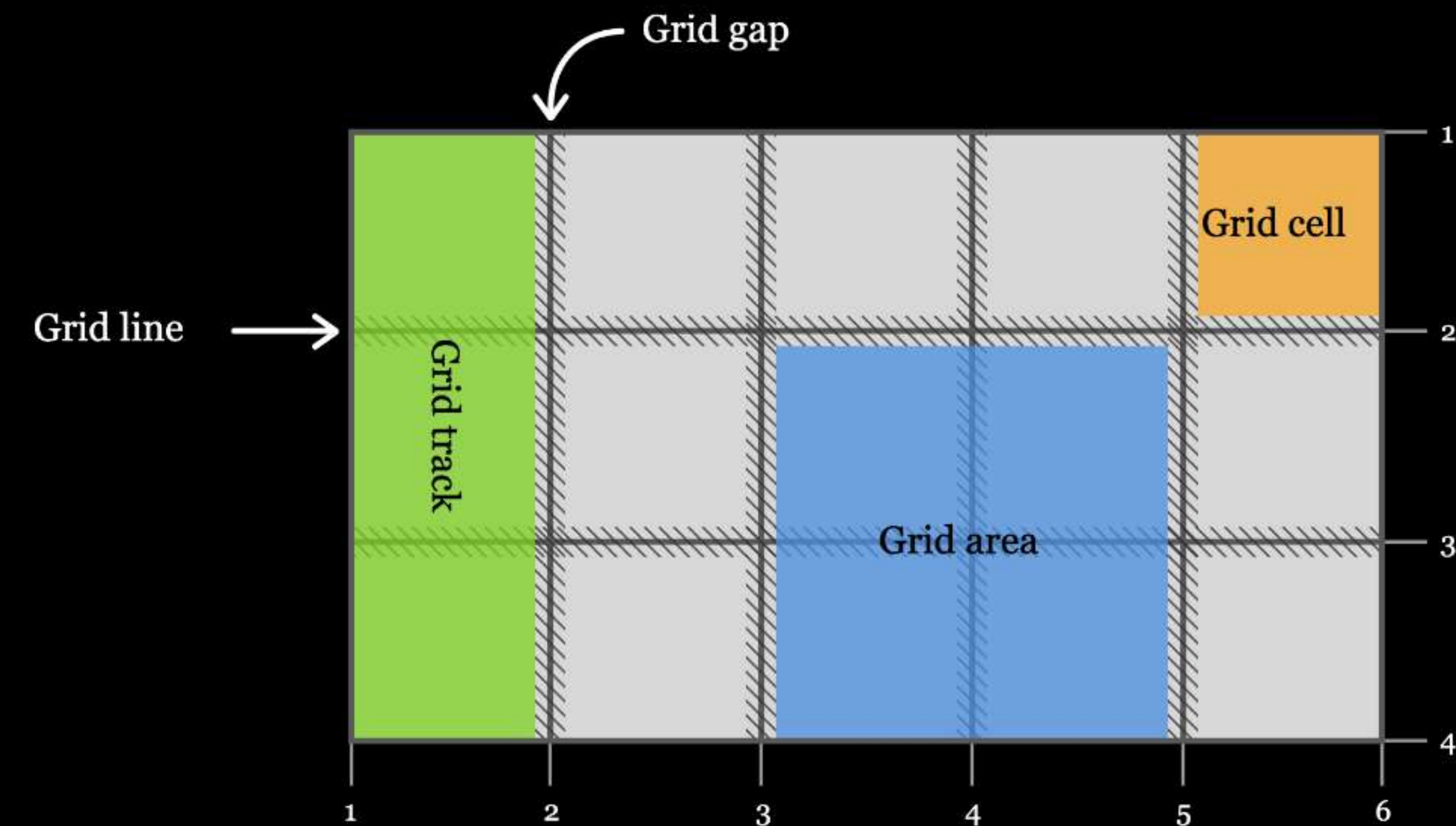
Define your grid.



Place items in the grid.



GRID TERMINOLOGY



March 2017

Sun	Mon	Tue	Wed	Thu	Fri	Sat
				1	2	3
5	6		8	9	10	11
12	13		15	16	17	18
19	20		22	23	24	25
26		28	29	30	31	

October 2017

Sun	Mon	Tue	Wed	Thu	Fri	Sat
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16		18	19	20	21
22	23	24	25	26	27	28
29	30					

March 2017

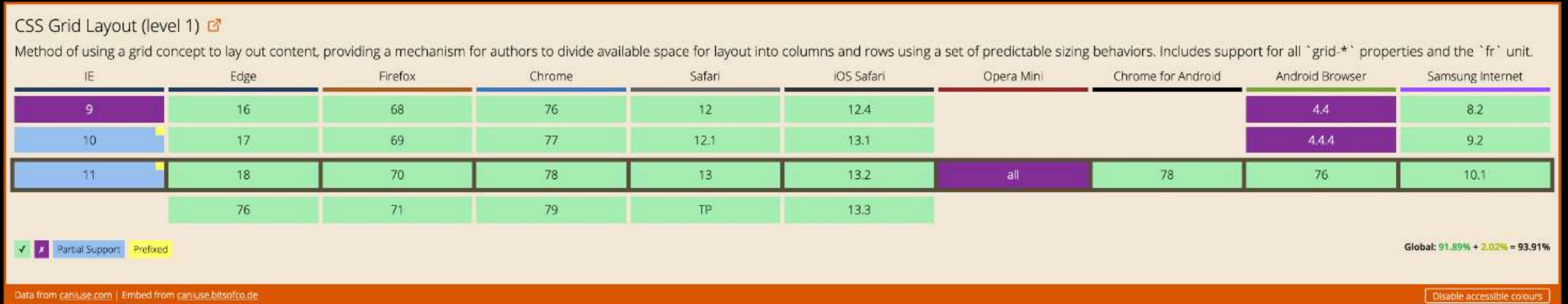
Sun	Mon	Tue	Wed	Thu	Fri	Sat
				1	2	3
5	6		8	9	10	11
12	13		15	16	17	18
19	20		22	23	24	25
26		28	29	30	31	

October 2017

Sun	Mon	Tu	We	Th	Fr	Sa
1	2	3				
8	9	1				
15	16					
22	23	2				
29	30					

Singlish lesson: Si bei
 Originated from Teochew, means “very” or “extremely”
 Literally translates to “死父 (sǐ fù)” or “dead father”
 “The CSS grid roll-out in 2017 was sibei successful.”

BROWSER SUPPORT FOR GRID (LEVEL 1)



USING DEVTOOLS TO LEARN GRID

Live demo



WHAT'S IN GRID LEVEL 2?

Level 2 expands Grid by:

- adding **“subgrid” capabilities** for nested grids to participate in the sizing of their parent grids
- **aspect-ratio-controlled gutters**

WHY DO WE NEED SUBGRID?



Awesome speaker
A card with a large blue circular profile picture. Below it are three input fields: 'https://websi.te' (text), '@twitter_handle' (text), and 'github_username' (text).
Incredible speaker
A card with a large blue circular profile picture. Below it are three input fields: 'https://longer.site.url' (text), '@twt' (text), and 'github_name' (text).

Profile settings
A form with six input fields, each with a purple arrow pointing to it:
1. Name
2. Handle
3. Location
4. Website URL
5. Short bio
6. -3
The last two fields have numerical values (-3 and -2) next to them. There are also numerical values (-1) at the top right and bottom right corners of the form area.

THE SUBGRID SYNTAX

Same properties, more values

```
grid-template-columns: subgrid <line-name-list>?  
grid-template-rows: subgrid <line-name-list>?
```

The `subgrid` keyword indicates to the browser the nested grid will use the same sizing as its parent along the relevant axis.

```
.subgrid-container {  
  grid-columns: 2 / 5; /* placement for the subgrid container itself */  
  
  display: grid; /* you must still apply a display: grid to the subgrid */  
  grid-template-columns: subgrid;  
  grid-template-rows: subgrid;  
}
```

USING DEVTOOLS TO LEARN SUBGRID

Live demo

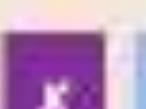


BROWSER SUPPORT FOR SUBGRID

CSS Subgrid

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.

IE	Edge	Firefox	Chrome	Safari	iOS Safari	Opera Mini	Chrome for Android	Android Browser	Samsung Internet
9	16	68	76	12	12.4			4.4	8.2
10	17	69	77	12.1	13.1			4.4.4	9.2
11	18	70	78	13	13.2	all	78	76	10.1
	76	71	79	TP	13.3				

  Partial Support

Global: 0.02% + 0% = 0.02%

Data from caniuse.com | Embed from caniuse.bitsofcode.de

[Disable accessible colours](#)

REFERENCES

- [CSS Flexible Box Layout Module Level 1](#)
- [CSS Grid Layout Module Level 1](#)
- [CSS Grid Layout Module Level 2](#)
- [Codrops reference: Subgrid](#)
- [Subgrid on MDN](#)
- [Grid Level 2 and Subgrid](#)
- [Why display: contents is not CSS Grid Layout subgrid](#)
- [CSS Grid Level 2: Here Comes Subgrid](#)
- [Grid by Example](#)
- [Researching a Property in the CSS Specifications](#)



THANKS SIA



🌐 <https://www.chenhuijing.com>

🐦 @hj_chen

Ⓜ️ @hj_chen

⬡ @huijing

Header font is Ostrich Sans by Tyler Finck.
Body font is Libre Baskerville by Pablo Impallari.