Grids and Layout

Prof. Lydia Chilton COMS 4170 29 January 2025



PRINCIPLE

Picking your TA Sessions Today @3pm

For the final Project, you will work in teams of 2-4.

Your team mates must be in the same TA group.

So if you have friends you might want to work with, make sure you all sign up for the same TA group and time.

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| 3 | Griffin Newbold | Wednesdays - 1 to 1:45pm | Lydia's Friend 1 | |
| 4 | Griffin Newbold | Wednesdays - 1 to 1:45pm | Lydia's Friend 2 | |
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| 22 | Jessica Liang Jessica Liang | Wednesdays - 1 to 1:45pm Wednesdays - 1 to 1:45pm | | |

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PRINCIPLE

The main feature of many websites is to display information in a way that helps users accomplish a goal.

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|--|------------|
| 624 Aug 03 T Martinez (37) Loans with tiny points are here now | |
| 625 0 Jul 01 R. Jackson (123) Loans with tiny rates are here now | |
| 626 Aug 05 Benjamin E. Mag (50) Long time no hear | |
| 627 May 17 Krista Aaron (44) long time no see | |
| 628 0 Jun 03 Josiah House (35) Looking for a hot date tonight, tomorrow, or next wee | k? |
| 629 Jul 03 Brigitte I. Hay (63) Looking for a N.ew H.Ome? | |
| 630 May 17 Joe Burns (58) Looking for you | |
| 631 Jun 01 Save in a poor (145) Low Rate Consolidation Mortgage Loan | |
| 632 + Jul 02 Igiel@virtualig (2) LowCost SoftWare OnCD | |
| -*-Mutt: Mail/junk/spam [Msgs:950 0ld:142 10N](subject/date) | |
| Date: Mon, 17 May 2004 03:40:09 +0100 | |
| From: Krista Aaron <christinefeminine@highstream.com></christinefeminine@highstream.com> | |
| Subject: long time no see | |
| | |
| [Autoview using /usr/bin/elinks -force-html -dump ''/tmp/mutt.html''] | |
| My name is Jen and I'm new to this dating thing. I've checked out your profile | |
| you put up and it's interesting. =) I just want to get to know you a little | |
| better if you don't mind, come check my profile out at: | |
| | |
| www.livejen.com/chat.html | |
| I also got a webcam so we can make it interesting, anyways hope you get back to | |
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| me. | |
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| Drafts (54) Need to Read | 📄 📩 Ď Feldmann, Ann | Fwd: 21st Century Classroom Visit? - Ann Feldmann District Technolog | 10:18 am |
| Technology Coach | 🗌 🚔 💌 me, Lambert (2) | 8th Period - Hey, Jeff. I am planning on doing the Mystery Hangout lesson | 8:05 am |
| More + | 🗌 🛨 💌 me | (no subject) Jeffrey Bernadt District Technology Specialist Bellevue Pu 🥃 | p Jan 12 |
| | 🗌 🚖 🝺 me, Braasch, Klamm (3) | Visitation & Observation Request - Good morning! The second semester is | Jan 12 |
| | 🗌 🛨 💌 me, Cox (2) | Bri Cox - Coaching Doc - Invitation to edit - Jeff, I finally was able to read a | Jan 12 |
| | 🗌 🛨 🤒 Tripple, Todd | 3D Printer - Hello Amy, I received some information from a 3D printing exp | Jan 11 |
| | 🗆 🛨 🗇 donotreply | Education Preview Build Notice - S AppleSeed Build Notice Education Pre | Jan 11 |
| | 🗌 🛨 💿 🛛 Ann Feldmann | Fwd: [New post] What "Innovative Leadership" Looks Like - A good read! :- | Jan 11 |
| | 🗌 🚖 🍺 me, Campbell (7) | Khan Academy Issues - It kept repeating that "changed password 7 month | p Jan 8 |
| | 🗌 📩 🜔 Toelle, me (3) | 6 Word Stories - Hey Jeff! We just returned from lunch, but still have quite | Jan 8 |
| | 🗌 🚖 🝺 me, Evon (4) | Request to Visit on Thursday AM - Hi Jeff, Happy New Year! We would lov | Jan 6 |
| | 🗌 ☆ 🍺 Jeffrey Bernadt | Shared from Twitter: What teachers need to know about multicultural educ | 12/23/15 |

Pine text-based email client

Seven tools for visually indicating importance

You are cordially invited to Robert and Alexandra's delectable after dinner party.

Wine and nibbles will be served.

When: February 20th, 2018 at 9:30pm. Where: the pad. if you need directions, ping us.

Kindly let us know if you will be attending by February 1st.

Conceptual grouping

| Priority 1 | Prior | rity 2 | Priority 3 |
|------------|-------|--------|------------|

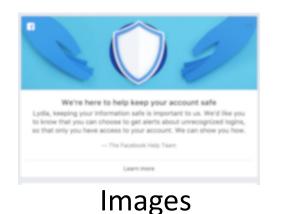
Location





Whitespace

Size



Robert and Alexandra's delectable after dinner party.

Wine and nibbles will be served.

A The arrest provided does not appear to be call?

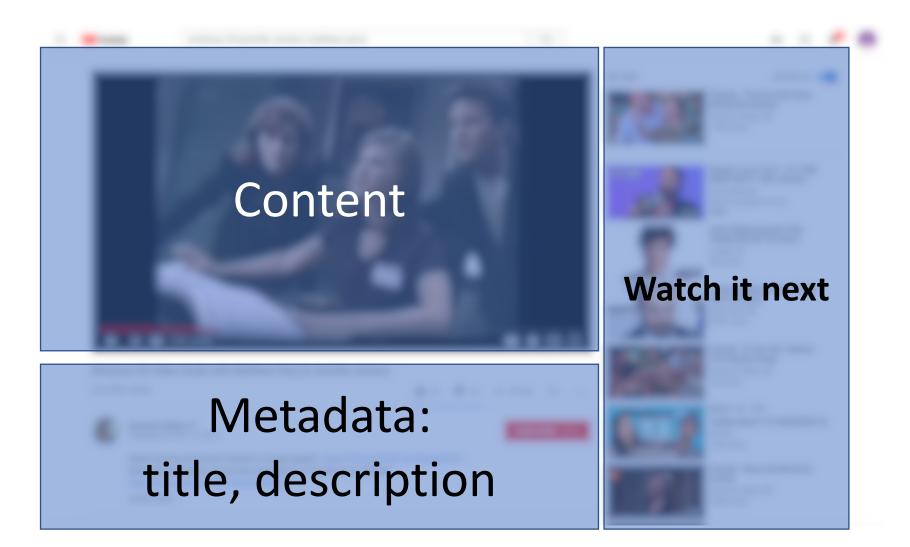
Contrast

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Conceptual groups in Gmail

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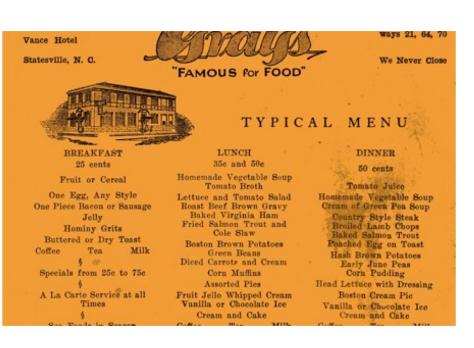
Conceptual groups in YouTube



How should we layout information on a page?

Old school information layout





Symmetrical

Eggs and Omelettes Scrambled Eggs with English Kippered Herrings 1.00 Hangtown Fried Oyster Omelette 1.00 Specialties of the House SPAGHETTI DERBY: Italian Spaghetti, Fresh Tomatoes, Mushrooms and Meat Sauce 1.10 MEXICAN TAMALE (Old Fashioned Mexican Maize Chicken Tamale Fresh Daily) 90 CREAMED TURKEY DERBY (All White Meat, Served in Toasted Crouton, with Cranberry Jelly) 2.25 PAN FRIED CORNED BEEF HASH 1.00; with Poached Egg 1.25 STEAK HAMBURGER DE LUXE (Ground Sirloin Steak) with or without Onions, Potatoes 1.85 DE LUXE CHICKEN ENCHILADAS with Chili Con Carne and Frijoles 1.50 FILET MIGNON TID-BITS with Sliced Mushrooms, Chef's Special, Risotto 1.85 SCALLOPED CHICKEN A LA KING in Patty Shell, Peas in Butter 1.25 Entrees HUNGARIAN VEAL GOULASH with Egg Noodles Polonaise 1.50 RACK OF LAMB PARISIENNE in Casserole 1.50 BOILED HAM HOCKS and Baked Beans, Boston Brown Bread 95 PAN FRIED ROAST BEEF HASH, Poached Egg 1.00 MEDAILLONS OF PORK FILET Saute, Marsala, Timbale of Rice 1.50 FRESH ASPARAGUS with Fried Ham, Sauce Hollandaise 1.65 DERBY APPLE PANCAKE with Cinnamon Butter 1.10 EMINCE OF CALF'S LIVER with Mushrooms, in Sour Cream Sauce, Rice 1.20 Desserts Baked Fresh Rhubarb 50 Ice Cream 40 Parfaits 50 Sherbet 40 Pastry Specials Blackbottom Pie 40 Rio Rita Cake 40 Parisian Pastries 40 Rice or Chocolate Pudding 3 BEVERAGES AS LISTED ON A LA CARTE MENU Sales Tax will be added on all taxable items in accordance with the r Sorry we cannot be responsible for last articles Friday, January 17, 1941

Before: Symmetric Layout

Now:

Asymmetric Grids Layout



The Bauhaus School of Design (1919-1933)



"[Bauhaus] attempted to unify the principles of <u>mass production</u> with individual artistic vision. It strove to combine <u>aesthetics</u> with everyday <u>function</u>."

Grid Layouts: Typographer Jan Tschichold made grid layouts inspired by Bauhaus

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Grids can convey importance though: Groups, location, size and whitespace

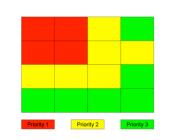
You are cordially invited to Robert and Alexandra's delectable after dinner party.

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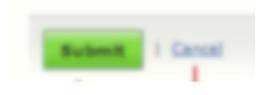
Kindly let us know if you will be attending by February 1st.

Conceptual grouping



Location





Whitespace

Size

Grids can convey importance though: Groups, location, size and whitespace

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How do we create groups in a grid? By creating a column or row.

How do we use locationto make a group appear more important?Put the information in the upper left grid cell.

How do we use size to make a group appear more important? Make a column wider.

How do we use whitespace to make a group appear more important?

Increase the size of the gutters.

Not all the ideas of the Bauhaus school are new.



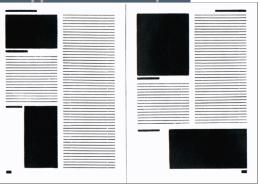
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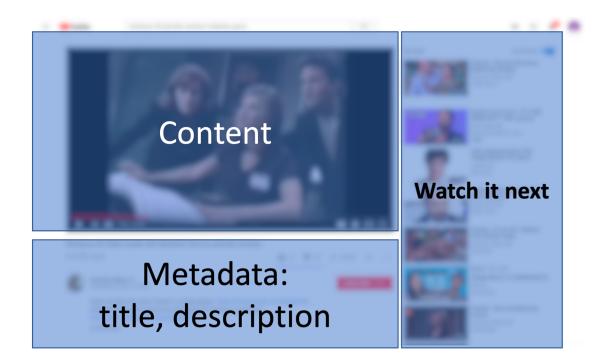
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But there is freedom from the symmetric layout.

Grid layout heavily influenced web layout



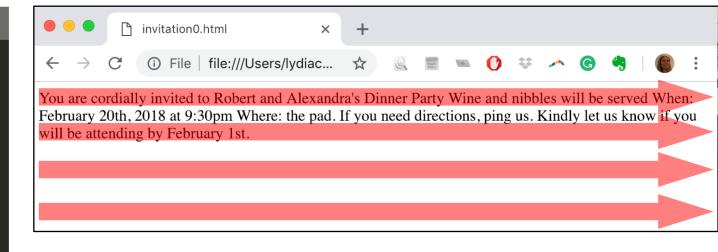
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Basic Layout in HTML (no grids yet)

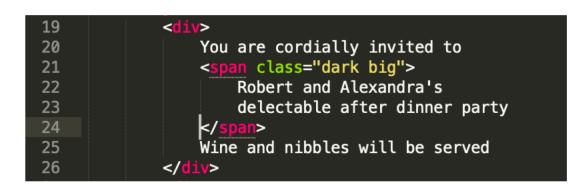
How to construct the layout of information in HTML and CSS

Web Browsers are in charge of rendering HTML

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| 1 | <html></html> |
| 2 | <body></body> |
| 3 | |
| 4 | You are cordially invited to |
| 5 | Robert and Alexandra's Dinner Party |
| 2 3 4 5 6 7 | Wine and nibbles will be served |
| 7 | |
| x 8 | When: February 20th, 2019 at 9:30pm |
| a 9 | Where: the pad. If you need directions, ping us. |
| y 10 | |
| , 11 | Kindly let us know if you will be attending by February 1st. |
| . 12 | |
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| 14 | |
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When you add elements, they either obey the line-wrap layout or break it.





 elements **obey** line-wrap layout

<div>

You are cordially invited to <span class </div>

<div>

When: February 20th, 2019 at 9:30pm Wher </div>

You are cordially invited to Robert and Alexandra's

When: February 20th, 2019 at 9:30pm Where: the pad. If you need

<div> elements break line-wrap layout

When you use a new element, ask: does it obey or break line-wrap layout?



Today's goal: Remake this information layout in HTML and CSS

facebook



PictureCorrect Photography Tips What is your Photography-Related New Year's Resolution?? 15 minutes ago · Like · Comment

🖒 Adel Gomaa and Richard Schneider like this.

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Sadi Molloy get my business looking more professional: car signed: tick, makeing up portrait folders: tick, stickers & cd covers: still to do... its getting there though. 11 minutes ago · Flag

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PictureCorrect Photography Tips My resolution for 2011 is to capture more landscape photos outside the U.S. and add more countries to my portfolio! What is yours?

-Richard

11 minutes ago · Flag

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James Donnelly Larger concerts to cover and improve my portrait editing style/skill 10 minutes ago · Flag



Jose Antonio Rubido To push my photpography foward full throttle 9 minutes ago · Flag



Deacon Jonathan Jerome Johnson To learn more and enhance the quality of my shots! 5 minutes ago • Flag



"I finished coding up my website **BUT...."**

"It just doesn't work yet!"



PictureCorrect Photography

What is your Photography-Relate Del . obe segnum II.

-Richard

to my portfolio! What is yours?

seitronos enore landscape photos outside the U.S. and add more countries PICTURECOMPACT Photography Tips My resolution for 2011 is to



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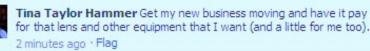
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Stefanie Bakewell get a website up so that i can get clients full steam ahead

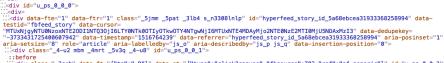
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///<div id="stream pagelet" data-referrer="stream pagelet" data-at-shortcutkevs="{"i":"focus on next story","k":"focus on previous</pre> story","p":"post a new status","L":"like\/unlke selected story","c":"comment on selected story","s":"share selected story","o":"oper selected story's attachment","\/":"search","q":"search chat contacts","?":"show keyboard shortcuts help dialog"}">

class page to compare the scinespage to the page to the page

lldiv (class="_ll" id="u_0_j"> lldiv (class="_3_s0_ltoe_3_s1_3_s1 uiBoxGray noborder" data-testid="ax-navigation-menubar" id="u_0_k">..</div> lldiv id="pagelet_bluebar" data-referrer="pagelet_bluebar">..</div>

:::<div class="_5r__ homeWiderContent homeFixedLayout newsFeedComposer _1qkq _1ql0" id="contentCol">
:::<div class="clearfix" id="content_container">

- ill<div class="_5pcr userContentWrapper" data-ft="{"tn":"-R"}">
- :::<div class="_1dwg _1w_m _q7o">...</div>

cores-gte4 hasAXNavMenubar" dir="ltr" data-gr-c-s-loaded="true">

:<div id="globalContainer" class="uiContextualLayerParent">

::<div class="_1qkq _1qks" id="leftCol" style="margin-top: -12px;">...</div>

<div id="pagelet_megaphone" data-referrer="pagelet_megaphone"></div></div> :::<div id="pagelet_composer" data-referrer="pagelet_composer">...</div>

:<div class="_4ikz" id="substream_0" data-referrer="substream_0">

Content clearfix " id="content" role>

:::<div class="clearfix" id="mainContainer">

<div class=" 2c44"></div>

Colicity role="feed">

:::<div id="u_ps_0_0_0"> ...<div>

testid="fbfeed_story" data-cursor=

C<div>

- ::<div> </div> </div>
- </div>

'<head> </head:

- </div>
- <div></div>

</div> testid="fbfeed story" data-cursor=

MTUxNigyNTU0NZ0xNTE20DI1NT030jU6LTM3MzM0MzE3MjU0MDA2MDc5NDI6MTUxNic2NDIz0To2NTE0NzE2MTI0MjU5NDAxMzI3" data-dedupekey= "-6459492299096858062" data-timestamp="1516677883" data-referrer="hyperfeed_story_id_5a68ebcea33ce0a39762213" aria-posinset="2" aria-setsize="8" role="article" aria-labelledby="js_r" aria-describedby="js_s" style="display: none !important;">---</div> </div>

- </div> </div>
- </div>

...<div id="more_pager_pagelet_5a68ebcbc6f345335430150" data-referrer="more_pager_pagelet_5a68ebcbc6f345335430150">...</div> </div> </div>

</div> </div> </div> ::after

How would you help this person?





Iterative Style of Programming

What is the **smallest** unit of progress I can make?



Step 0. Make a html page, connect some CSS

```
Hello World!
<!DOCTYPE html>
<html>
<head>
<style>
  #test{
      color: blue;
  }
</style>
</head>
<body>
  <div id="test">Hello World!</div>
</body>
</html>
                                                                                                                    25
```

What should we do first?

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🖒 Adel Gomaa and Richard Schneider like this.



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-Richard 11 minutes ago · Flag

nutes ago · Flag



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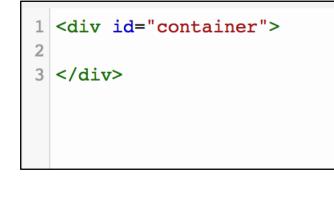
Jose Antonio Rubido To push my photpography foward full throttle 9 minutes ago · Flag

Deacon Jonathan Jerome Johnson To learn more and enhance the quality of my shots! 5 minutes ago • Flag

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Make a container

Step 1. Make a container div



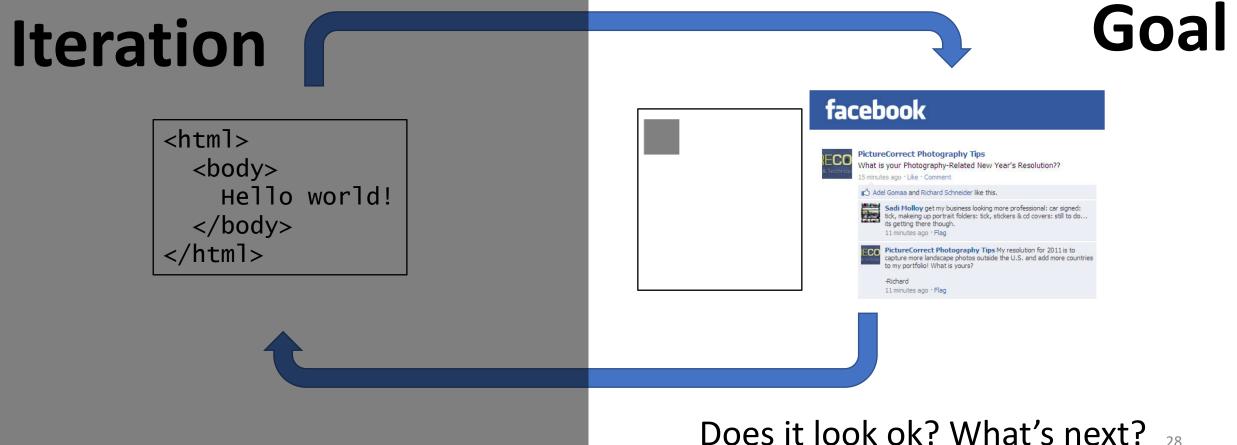
1 #container{

- 2 width: 50px;
- 3 height: 50px;
- 4 background-color: grey;

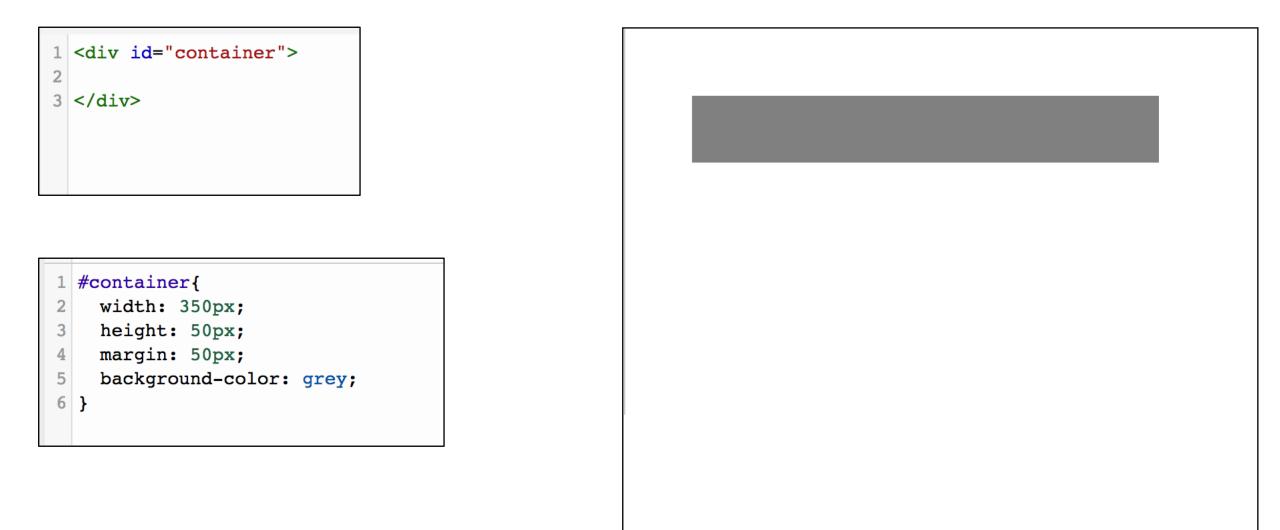
5 }

Iterative Style of Programming

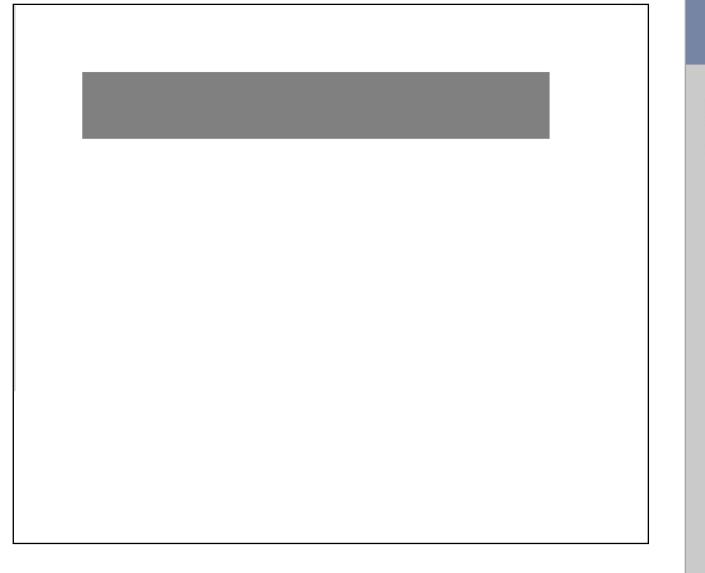
What's the most **basic** thing I can do to make **necessary** progress towards my goal?



Give Container div realistic width.



What's next?



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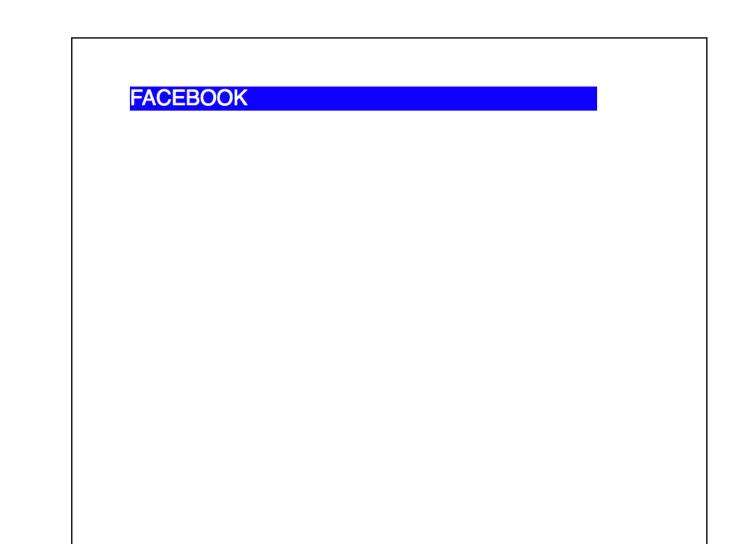


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Create a blue Facebook header







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10 minutes ago · Flag



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Get header height right. (Add padding)





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Add the first post

1 <div id="container"> 2 <div id="fb_brand"> 3 FACEBOOK 4 </div> 5 <div id="top_post"> 6 FIRST POST 7 </div> 8 </div>

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FIRST POST

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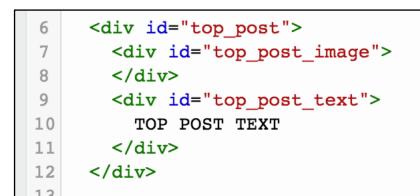


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Add internal structure to the first post



| 14 | <pre>#top post image{</pre> |
|----|-------------------------------------|
| 15 | height: 50px; |
| 16 | width: 50px; |
| 17 | background-color: green; |
| 18 | <pre>display: inline-block;</pre> |
| 19 | } |
| 20 | |
| 21 | <pre>#top_post_text{</pre> |
| 22 | height: 30px; |
| 23 | width: 250px; |
| 24 | <pre>padding: 10px;</pre> |
| 25 | <pre>border: 1px solid black;</pre> |
| 26 | <pre>display: inline-block;</pre> |
| 27 | <pre>vertical-align: top;</pre> |
| 28 | |
| 29 | } |

| F | ACEBOOK |
|---|---------------|
| | TOP POST TEXT |

By default, DIV elements will flow down the page. display: block To get them to flow across the page, you must set display: inline-block

| FACEBOOK | | | | FACEBOOK |
|---------------|-----------------------------|---------------------|----|-------------------------------------|
| TOP POST TEXT | | | | TOP POST TEXT |
| | | | 14 | <pre>#top post image{</pre> |
| 18 | <pre>#top_post_image{</pre> | | 15 | |
| 19 | | | 16 | width: 50px; |
| 20 | width: 50px; | | 17 | <pre>background-color: green;</pre> |
| 21 | background-color: g | green; | 18 | <pre>display: inline-block;</pre> |
| 22 | /*display: inline-b | | 19 | } |
| 23 | } | | 20 | |
| 24 | | | 21 | <pre>#top_post_text{</pre> |
| 25 | <pre>#top_post_text{</pre> | | 22 | height: 30px; |
| 26 | height: 30px; | | 23 | width: 250px; |
| 27 | width: 250px; | | 24 | <pre>padding: 10px;</pre> |
| 28 | <pre>padding: 10px;</pre> | | 25 | <pre>border: 1px solid black;</pre> |
| 29 | border: 1px solid b | olack; | 26 | <pre>display: inline-block;</pre> |
| 30 | /*display: inline-b | <pre>plock;*/</pre> | 27 | <pre>vertical-align: top;</pre> |
| 31 | vertical-align: top | ; | 28 | |
| 32 | } | | 29 | } |

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Add padding on the top post



```
13
14 #top_post{
15 padding: 10px;
16 }
17
```

| FACEBOOK | | |
|----------|---------------|--|
| | TOP POST TEXT | |

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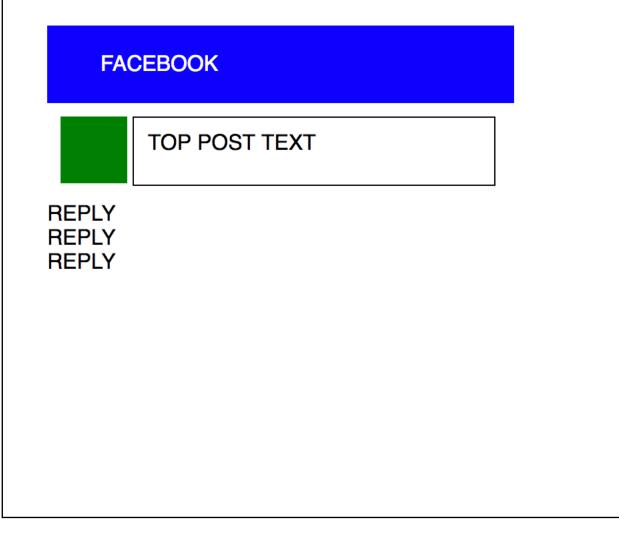
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Add replies.

- <div id="reply_container"> 13 <div class="reply"> 14 15 REPLY </div> 16 17 <div class="reply"> 18 REPLY </div> 19 <div class="reply"> 20 21 REPLY 22 </div>
- 23 </div>

| FA | CEBOOK | |
|-------------------------|---------------|--|
| | TOP POST TEXT | |
| REPLY REPLY REPLY | | |

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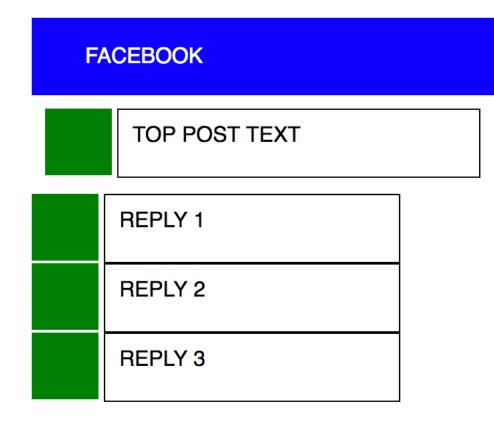


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Reply substructure: image and text

| 14 <div class="reply"></div> | | |
|--|---------------|----|
| 15 <div class="reply_image"></div> | | |
| 16 | | |
| 17 <div class="reply_text"></div> | | |
| 18 REPLY 1 | FACEBOOK | |
| 19 | TAGEBOOK | |
| 20 | | |
| | TOP POST TEXT |] |
| 25 months impact | TOP POST TEXT | |
| <pre>35 .reply_image{ 26</pre> | | J |
| 36 height: 50px; | | |
| 37 width: 50px; | REPLY 1 | |
| <pre>38 background-color: green;</pre> | | |
| <pre>39 display: inline-block;</pre> | | |
| 40 vertical-align: top; | REPLY 2 | |
| 41 } | | |
| 42 | | |
| 43 .reply_text{ | REPLY 3 | |
| 44 height: 30px; | | |
| 45 width: 200px; | | |
| 46 padding: 10px; | | |
| 47 border: 1px solid black; | | |
| 48 display: inline-block; | | |
| 49 vertical-align: top; | | 44 |
| 50 } | | |

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Reply container positioning

| 13 | <pre><div id="reply_container"></div></pre> |
|----|---|
| 14 | <pre><div class="reply"></div></pre> |
| 15 | <pre><div class="reply_image"></div></pre> |
| 16 | |
| 17 | <pre><div class="reply_text"></div></pre> |
| 18 | REPLY 1 |
| 19 | |
| 20 | |
| | |

| 35 | <pre>#reply_container{</pre> |
|----|--------------------------------|
| 36 | <pre>padding-left: 60px;</pre> |
| 37 | } |
| 38 | |

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TOP POST TEXT

| REPLY 1 |
|---------|
| REPLY 2 |
| REPLY 3 |

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TOP POST TEXT

REPLY 1

REPLY 2

REPLY 3

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Reply Class background-color

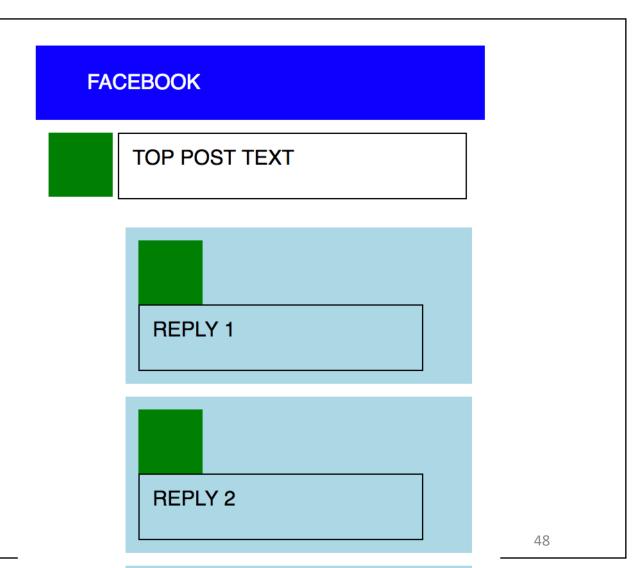
| 13 | <pre><div id="reply_container"></div></pre> |
|----|---|
| 14 | <pre><div class="reply"></div></pre> |
| 15 | <pre><div class="reply_image"></div></pre> |
| 16 | |
| 17 | <pre><div class="reply_text"></div></pre> |
| 18 | REPLY 1 |
| 19 | |
| 20 | |
| | |

39 .reply{

40 background-color: lightblue;

- 41 padding: 10px;
- 42 margin: 10px;

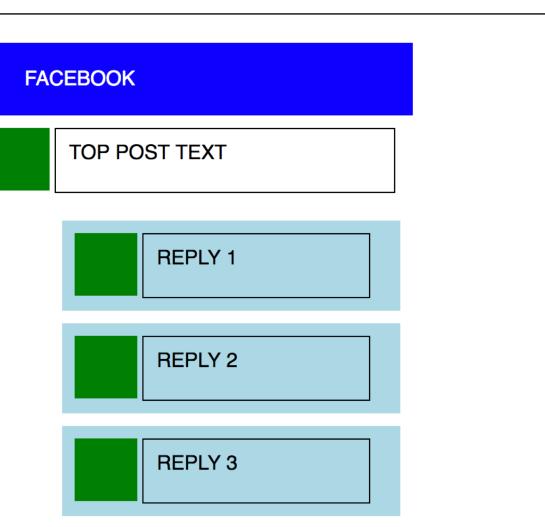
43 }



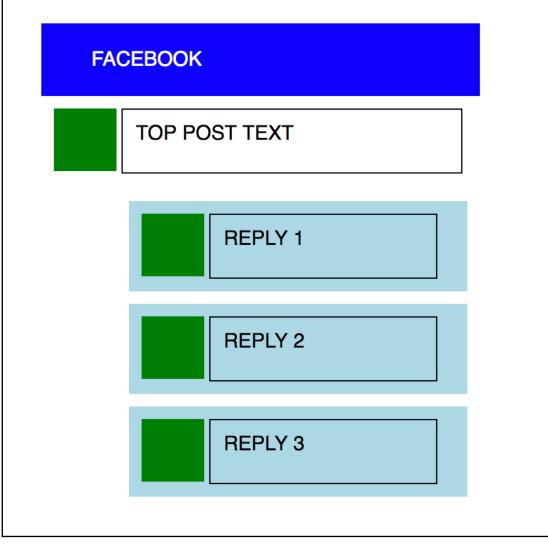
Reduce Reply Text Width

| 13 | <pre><div id="reply_container"></div></pre> |
|----|---|
| 14 | <pre><div class="reply"></div></pre> |
| 15 | <pre><div class="reply_image"></div></pre> |
| 16 | |
| 17 | <pre><div class="reply_text"></div></pre> |
| 18 | REPLY 1 |
| 19 | |
| 20 | |
| | |

| 53 | .reply_text{ |
|----|-------------------------------------|
| 54 | height: 30px; |
| 55 | width: 160px; |
| 56 | <pre>padding: 10px;</pre> |
| 57 | <pre>border: 1px solid black;</pre> |
| 58 | <pre>display: inline-block;</pre> |
| 59 | <pre>vertical-align: top;</pre> |
| 60 | } |



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ALC: NO.

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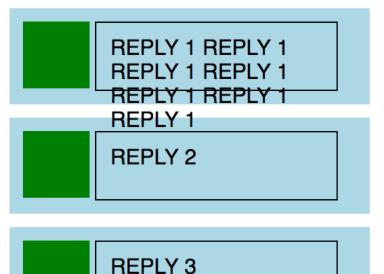
Reply Text is longer

```
14
       <div class="reply">
15
         <div class="reply image">
16
         </div>
17
         <div class="reply_text">
18
           REPLY 1 REPLY 1 REPLY 1 REPLY 1 REPLY 1
19
           REPLY 1 REPLY 1
20
         </div>
21
       </div>
```

- 53 .reply_text{
- 54 height: 30px;
- 55 width: 160px;
- 56 padding: 10px;
- 57 border: 1px solid black;
- 58 display: inline-block;
- 59 vertical-align: top;
- 60 }

FACEBOOK

TOP POST TEXT



51

Reply Text height fixed

```
14
       <div class="reply">
15
         <div class="reply image">
16
         </div>
17
         <div class="reply_text">
18
           REPLY 1 REPLY 1 REPLY 1 REPLY 1 REPLY 1
19
           REPLY 1 REPLY 1
20
         </div>
21
       </div>
```

53 .reply_text{

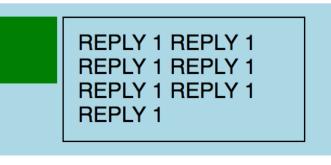
```
54 /*height: 30px;*/
```

- 55 width: 160px;
- 56 padding: 10px;
- 57 border: 1px solid black;
- 58 display: inline-block;
- 59 vertical-align: top;

60 }

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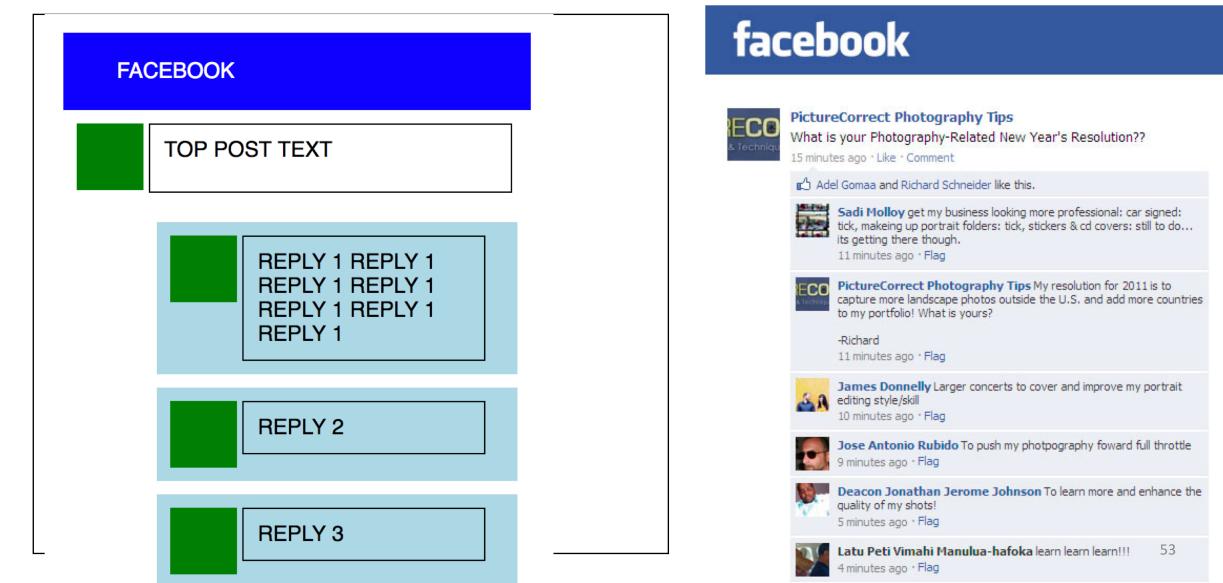
TOP POST TEXT



REPLY 2

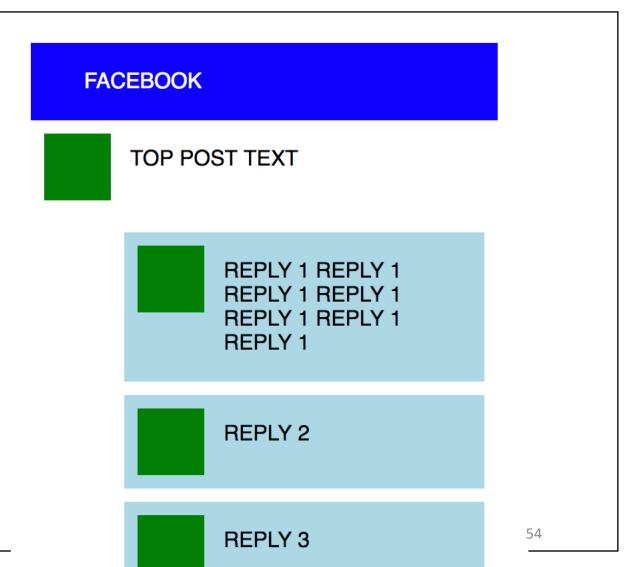
REPLY 3

What other scaffolding do I need to remove?

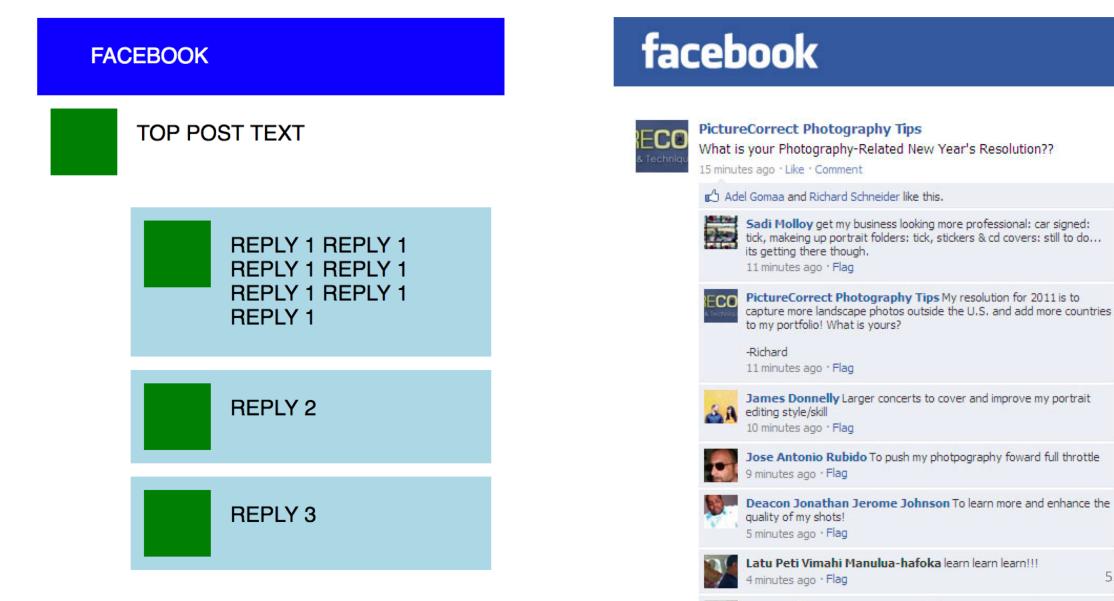


Remove borders

```
25 #top post text{
     height: 30px;
26
27
    width: 250px;
    padding: 10px;
28
    /*border: 1px solid black;*/
29
     display: inline-block;
30
    vertical-align: top;
31
32
33 }
24
   .reply_text{
53
54
     width: 160px;
55
     padding: 10px;
56
    /*border: 1px solid black;*/
57
     display: inline-block;
58
     vertical-align: top;
59 }
```



This is a great start for layout!



Tipp Taylor Hammon Cot my new business maying and have it pay

55

After layout... what next?

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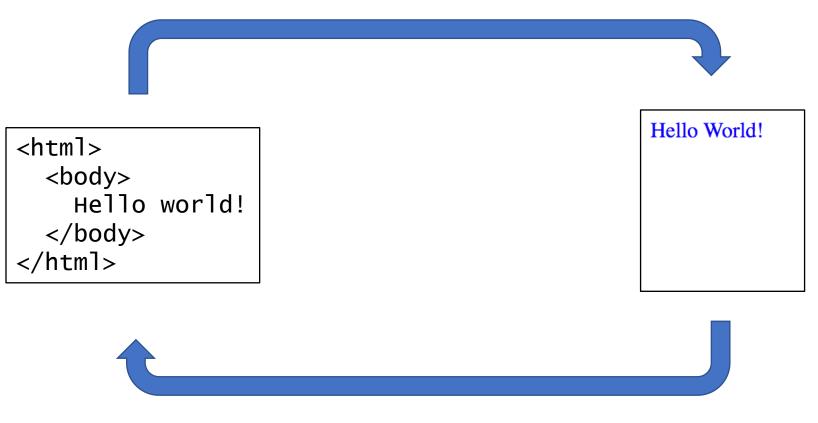
PictureCorrect Photography Tips My resolution for 2011 is to capture more landscape photos outside the U.S. and add more countries to my portfolio! What is yours?

-Richard

11 minutes and + Flag

Iterative Style of Programming helps you build a mental model of your code.

What's the small unit of progress I can make?



Iterative Style of Programming helped me recover from errors one at a time (as I created them)

| Error 1: display inline-block | Error 2: reply div padding | Error 3: Reply div height | | | | |
|-------------------------------|----------------------------|---|--|--|--|--|
| FACEBOOK | FACEBOOK | FACEBOOK | | | | |
| TOP POST TEXT | TOP POST TEXT | TOP POST TEXT | | | | |
| | REPLY 1 | REPLY 1 REPLY 1 REPLY 1 REPLY 1 REPLY 1 REPLY 1 REPLY 1 REPLY 1 | | | | |
| | | REPLY 2 | | | | |
| | REPLY 2 | REPLY 3 | | | | |
| | | 58 | | | | |

Once you have too many bugs, you can't fix it.





Grids

Currently the dominant way to layout information

That worked but it would be much easier if we had a grid.

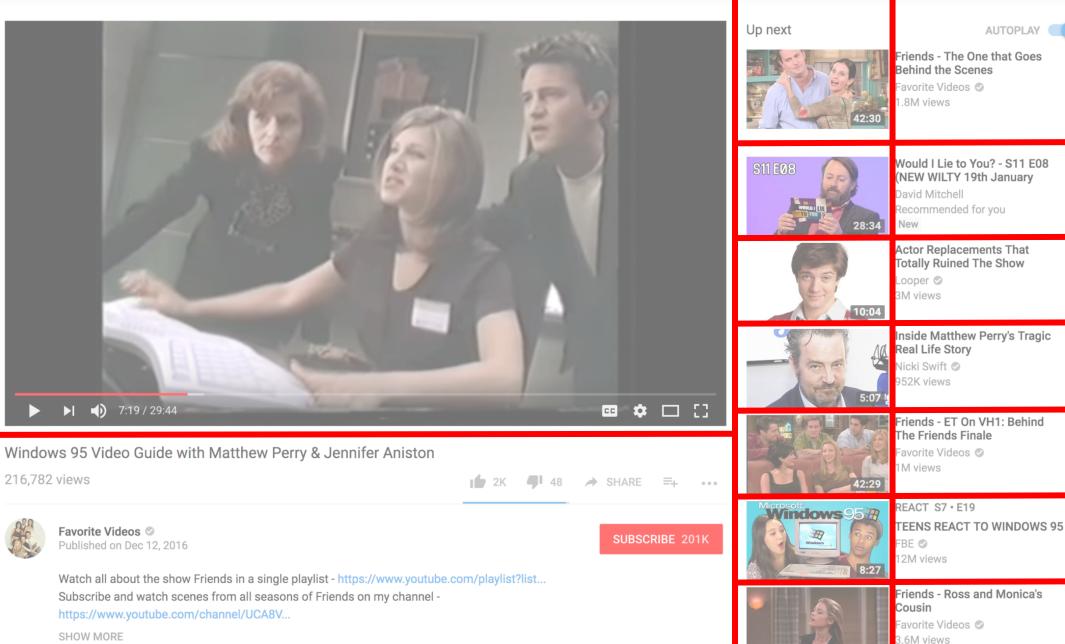
| Pictu | IreCorrect Photography Tips : is your Photography-Related New Year's Resolution?? | | | |
|----------|---|--|--|--|
| chniau | nutes ago - Like - Comment | Lorem Ipsum! | Lorem Ipsum! | Lorem Ipsum |
| ه دی | Idel Gomaa and Richard Schneider like this. | dolor sit amet Consectetur adipisicing elit, sed do | dolor sit amet Consectetur adipisicing elit, sed do | dolor sit amet Consectetur adipisicing elit, se |
| | Sadi Molloy get my business looking more professional: car signed: tick, makeing up portrait folders: tick, stickers & cd covers: still to do its getting there though. 11 minutes ago · Flag | eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit | eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit | eiusmod tempor incididunt ut l dolore magna aliqua. Ut enim a veniam, quis nostrud exercitatic ullamco laboris nisi ut aliquip e: commodo consequat. Duis aut dolor in reprehenderit in volup |
| ECO | PictureCorrect Photography Tips My resolution for 2011 is to capture more landscape photos outside the U.S. and add more countries to my portfolio! What is yours? -Richard 11 minutes ago · Flag | esse cillum dolore eu fugiat nulla pariatur: Excepteur sint occaecat cupidatat non proident sunt in culpa qui officia deserunt mollit anim id est laborum. | esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum. | esse cillum dolore eu fugiat nu pariatur. Excepteur sint occaec cupidatat non proident, sunt in officia deserunt mollit anim id laborum. |
| 5.0 | James Donnelly Larger concerts to cover and improve my portrait editing style/skill 10 minutes ago * Flag | | | |
| | Jose Antonio Rubido To push my photpography foward full throttle 9 minutes ago · Flag | | | |
| | Deacon Jonathan Jerome Johnson To learn more and enhance the quality of my shots! 5 minutes ago · Flag | | | |
| Y | Latu Peti Vimahi Manulua-hafoka learn learn learn!!! 4 minutes ago · Flag | | | |
| 9 | Tina Taylor Hammer Get my new business moving and have it pay for that lens and other equipment that I want (and a little for me too). 2 minutes ago • Flag | | | |

| COMPOSE | Primary 🚨 S | ocal Promotions 🕒 Updates | + | ·· · · |
|-----------------------------|------------------------------|--|----------|---|
| Inbox (2) Sent Mail | 🔲 📩 🕑 Baldwin, BPS (2) | Bloglovin' - Not that I know of. Sometimes blocked sites come in on a hug | 11:08 am | Search people Jed Givens |
| Drafts (54) Need to Read | 🗌 🚖 🐌 Feldmann, Ann | Fwd: 21st Century Classroom Visit? - Ann Feldmann District Technolog | 10:18 am | Ann Feldmann Ann Feldmann |
| Technology Coach | 🗌 ☆ 💌 me, Lambert (2) | 8th Period - Hey, Jeff. I am planning on doing the Mystery Hangout lesson | 8:05 am | Cadwallader, Julie |
| More + | 🗆 🚖 💌 me | (no subject) Jeffrey Bernadt District Technology Specialist Bellevue Pu | Jan 12 | Christopher Kessell Courtney Saffold |
| | 🗌 🌟 💌 me, Braasch, Klamm (3) | Visitation & Observation Request - Good morning! The second semester is | Jan 12 | Jeanette Carlson |
| | 🗌 🛨 💌 me, Cox (2) | Bri Cox - Coaching Doc - Invitation to edit - Jeff, I finally was able to read a | Jan 12 | Johnson, Stephanie Kelly Bernadt |
| | 🗌 🛨 逐 Tripple, Todd | 3D Printer - Hello Amy, I received some information from a 3D printing exp | Jan 11 | Loomis, Phillip Robert Mason |
| | 🗆 🛨 🗇 donotreply | Education Preview Build Notice - & AppleSeed Build Notice Education Pre | Jan 11 | Shannon Gier |
| | 🗌 🛨 💿 🛛 Ann Feldmann | Fwd: [New post] What "Innovative Leadership" Looks Like - A good read! :- | Jan 11 | Todd Tripple Toledo, Julian (Delor. |
| | 🗌 🚖 🝺 me, Campbell (7) | Khan Academy Issues - It kept repeating that "changed password 7 month a | Jan 8 | |
| | 🗌 📩 这 Toelle, me (3) | 6 Word Stories - Hey Jeff! We just returned from lunch, but still have quite | Jan 8 | |
| | 🗌 🌟 💌 me, Evon (4) | Request to Visit on Thursday AM - Hi Jeff, Happy New Year! We would lov | Jan 6 | |
| | 🗌 👷 🐌 Jeffrey Bernadt | Shared from Twitter: What teachers need to know about multicultural educ | 12/23/15 | |
| | | | | |

YouTube

windows 95 jennifer aniston matthew perry

Q



4:53

....

ΞK

63

Twitter Bootstrap

An implementation of grid layout

How many **columns** do you see?

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Media



| | Who to follow · Refresh · View all | | | | | | | | |
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| | Connect other address books | | | | | | | | |
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| | #SDLive 37.9K Tweets | | | | | | | | |
| No. 14 | #Sabres & 2,607 Tweets | | | | | | | | |
| | James Ingram R&B legend James Ingram has died at age 66 | | | | | | | | |
| | Rusev 3,867 Tweets | | | | | | | | |

#SBGC

How wide is the middle (compared to the sides)?

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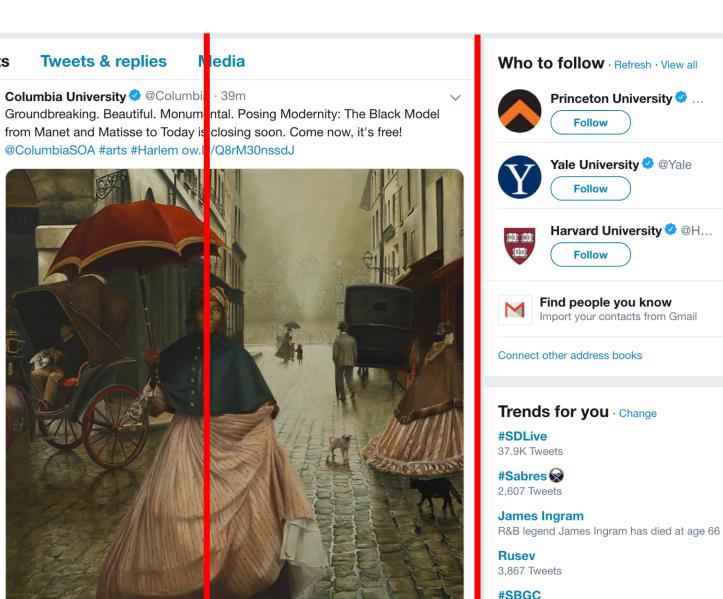
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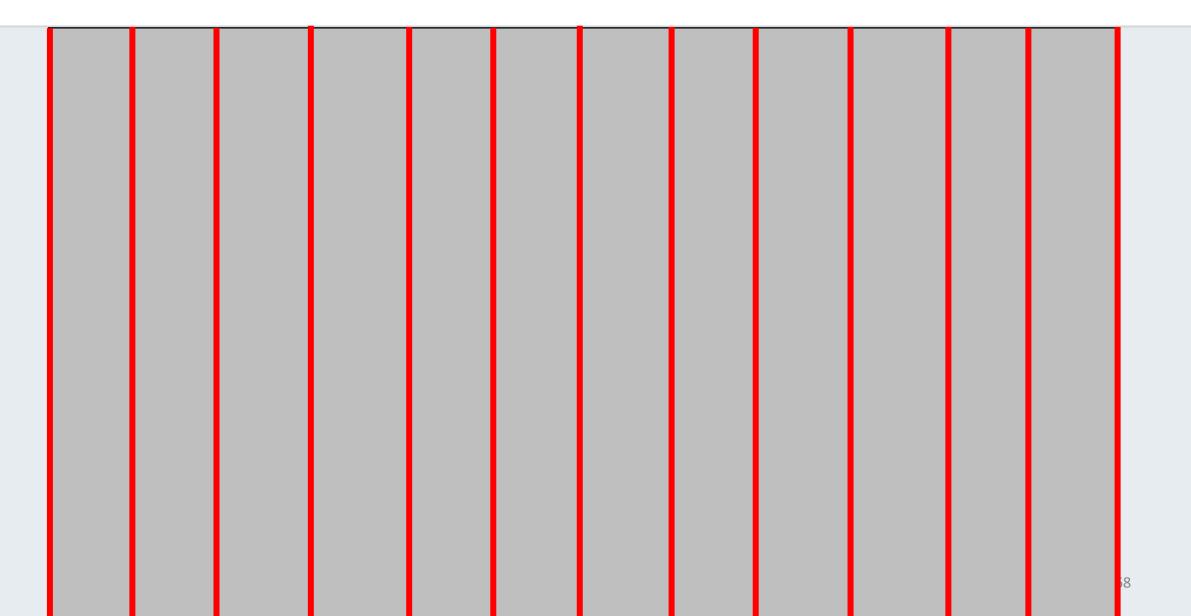
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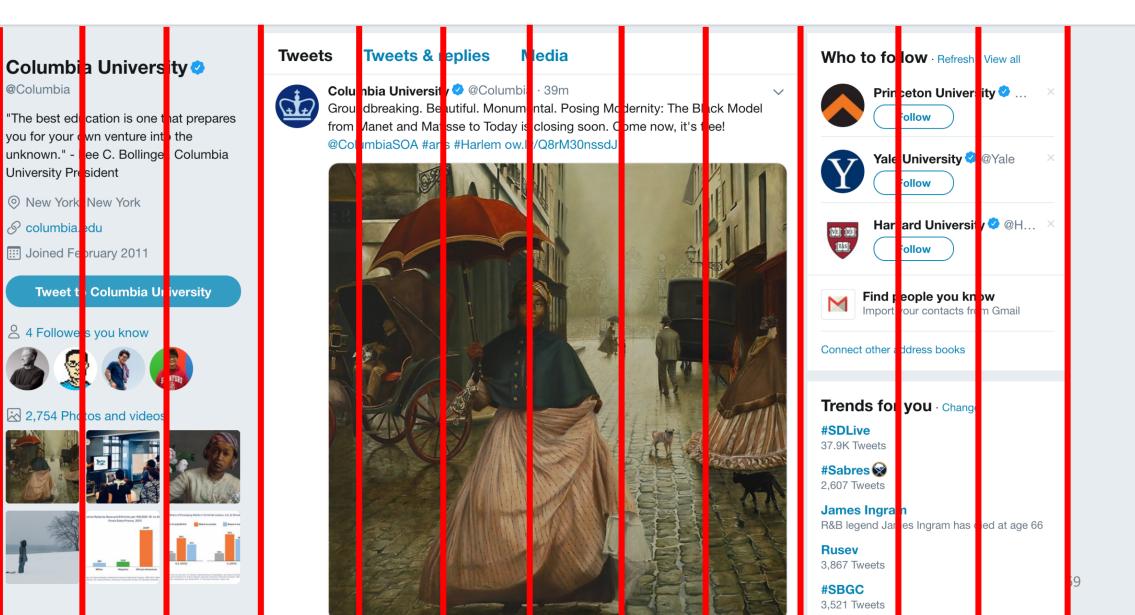


All content goes in the main container

The container is divided into 12 columns



You get to apportion those 12 columns



12 columns: split in 3, 6, 3

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Tweets Tweets & replies

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Media



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| Yale University @ @Yale × Follow |
| Harvard University @H × |
| Find people you know Import your contacts from Gmail |
| Trends for you · Change #SDLive 37.9K Tweets #Sabres © 2,607 Tweets James Ingram |
| R&B legend James Ingram has died at age 66 Rusev 3,867 Tweets #SBGC |

Bootstrap grid. How many columns?

| .col- md-1 | .col- md-1 | .col- md-1 | .col- md-1 | .col- md-1 | .col- md-1 | .col- md-1 | .col- md-1 | .col- md-1 | .col- md-1 | .col- md-1 | .col- md-1 | |
|---------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--|
| .col-md-8 | | | | | | | | .col-md-4 | | | | |
| .col-md-4 .col-md-4 | | | | | .col-md-4 | | | | | | | |
| .col-md-6 | | | | | .col-md-6 | | | | | | | |
| | | | | | | | | | | | | |

Do the columns have the same rows?



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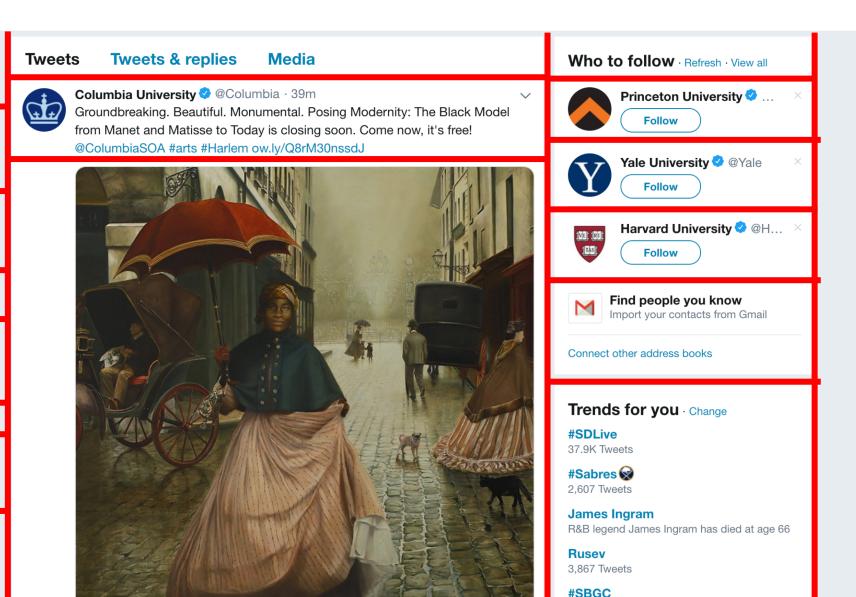
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Is there alignment within the column?



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```

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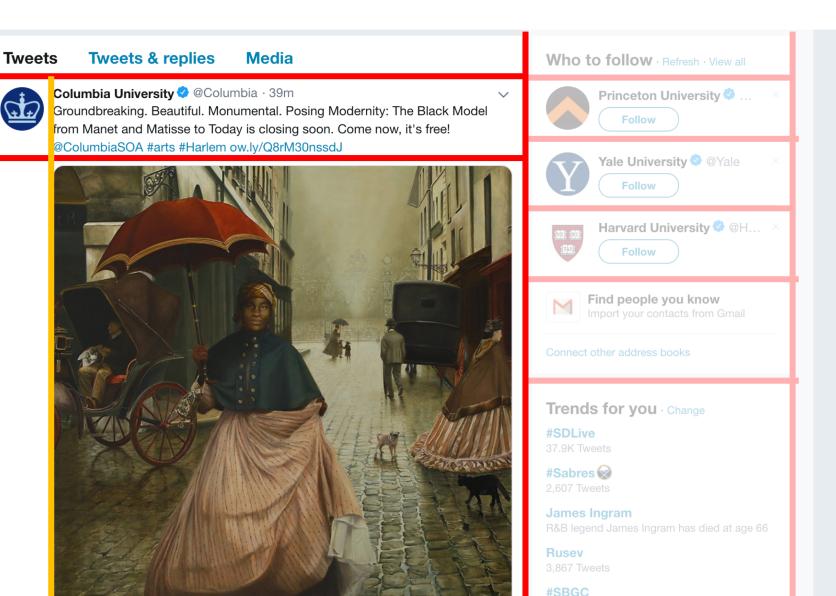
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Can you use the original grid?

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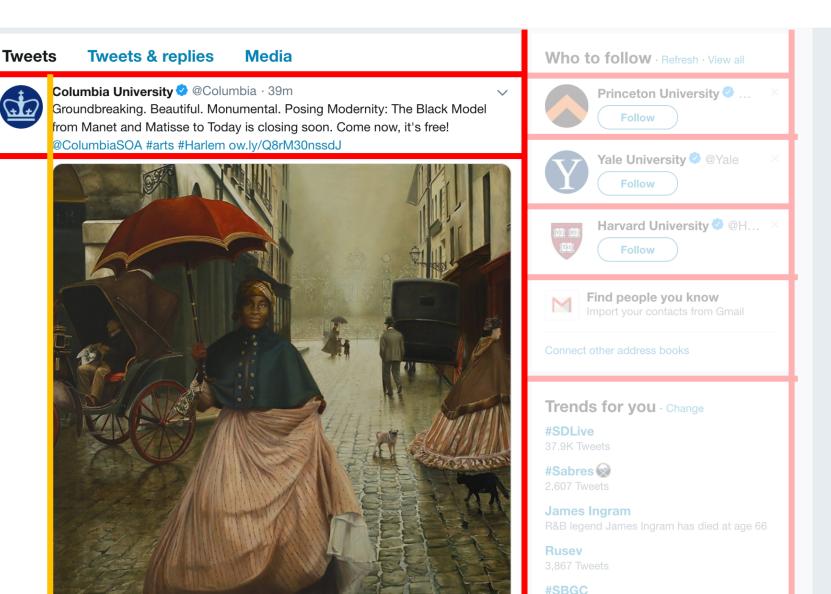
Tweet to Columbia Universit

A Followers you know

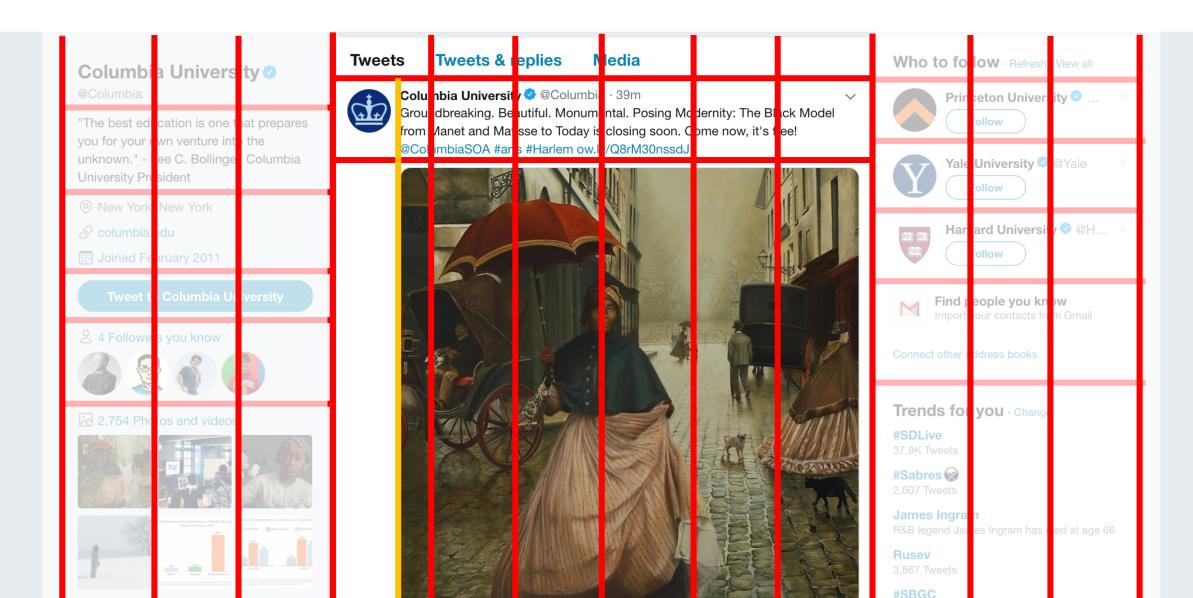


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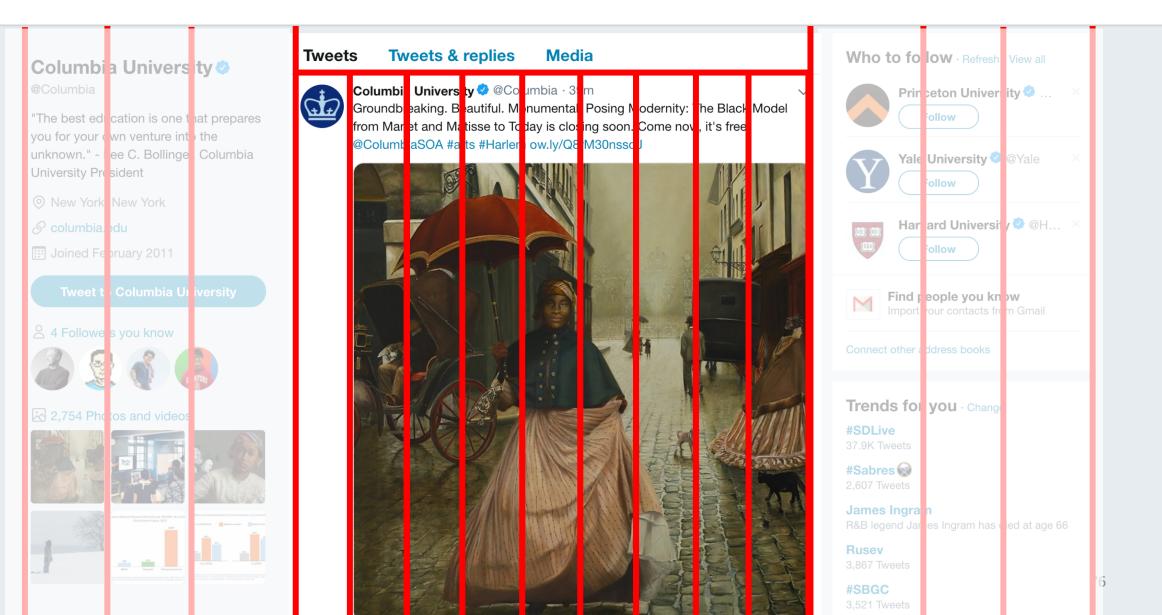




Can you use the original grid? NO

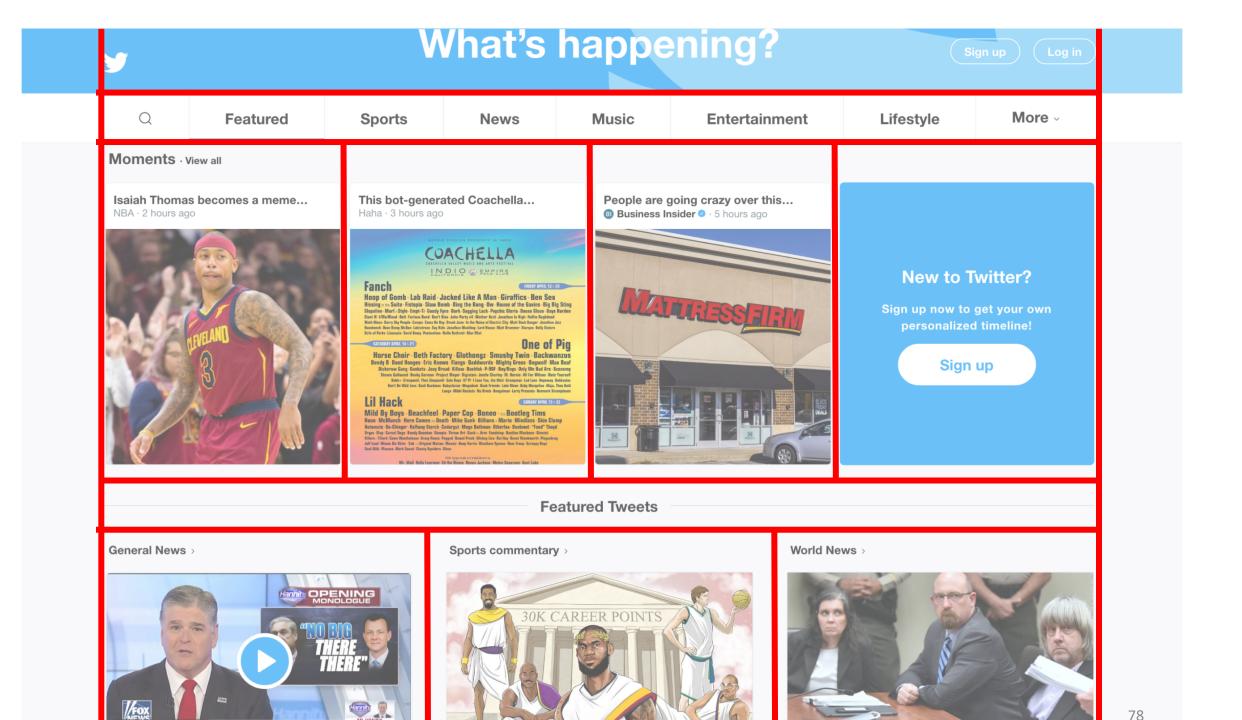


Grids within grids!!!



Nested grids. Apportion 12 columns with in a column.

| .col- md-1 .col- md-1 <th>.col- md-1</th> <th>.cc mc</th> <th> .col- md-1</th> <th></th> <th>.col- md-1</th> <th>.col md-</th> <th></th> <th>.col- md-1</th> <th>.co ma</th> <th>.col- md-1</th> <th>.col- md-1</th> <th>.col- md-1</th> <th>.col- md-1</th> <th>.col- md-1</th> | .col- md-1 | .cc mc | .col- md-1 | | .col- md-1 | .col md- | | .col- md-1 | .co ma | .col- md-1 | .col- md-1 | .col- md-1 | .col- md-1 | .col- md-1 |
|--|---------------|-----------|-------------------|--------|---------------|-------------|---|---------------|-----------|---------------|---------------|---------------|---------------|---------------|
| .col-md-4 .col-md-4 | | | | | | | | | | | .col-md-4 | 4 | | |
| | .col-md-8 | | | | | | | .col-md-4 | ţ | | .col-md-4 | 4 | | |
| .col-md-6 | .col-md-4 | | | .col-m | nd-4 | | | .col-md-4 | ł | | | | _ | |
| | .col-md-6 | | | | | .col-md-6 | 6 | | | | | | | |



Add Bootstrap to your HTML

CSS & JS in <head> tag, before your own CSS

| 1 | </th <th>doctype html>-</th> | doctype html>- |
|---|---------------------------------|---|
| 2 | < | ltml>⊢ |
| 3 | | <head></head> |
| 4 | | <meta charset="utf-8"/> - |
| 5 | | <title>Test</title> r |
| 6 | | |
| 7 | | Add Boostrap - |
| 8 | | <pre><link href="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0-alpha.6/css/bootstrap.min.css" integ<="" pre="" rel="stylesheet"/></pre> |
| 9 | | <pre><script 1.4.0="" 4.0.0-alpha.6="" ajax="" bootstrap="" bootstrap.min.js"="" cdnjs.cloudflare.com="" components="" https:="" integrity="sha384-vBWWz]</pre></td></tr><tr><td>12</td><td></td><td></td></tr><tr><td>13</td><td></td><td><! Add our own CSS and JS>-</td></tr><tr><td>14</td><td></td><td></td></tr><tr><td>15</td><td></td><td>k href=" js="" libs="" main.css"="" maxcdn.bootstrapcdn.com="" rel="stylesheet" src="https://code.jquery.com/jquery-3.1.1.slim.min.js" tether="" tether.min.js"="" type="text/css">=</td></tr><tr><td>16</td><td>-</td><td></td></tr></tbody></table></script></pre> |

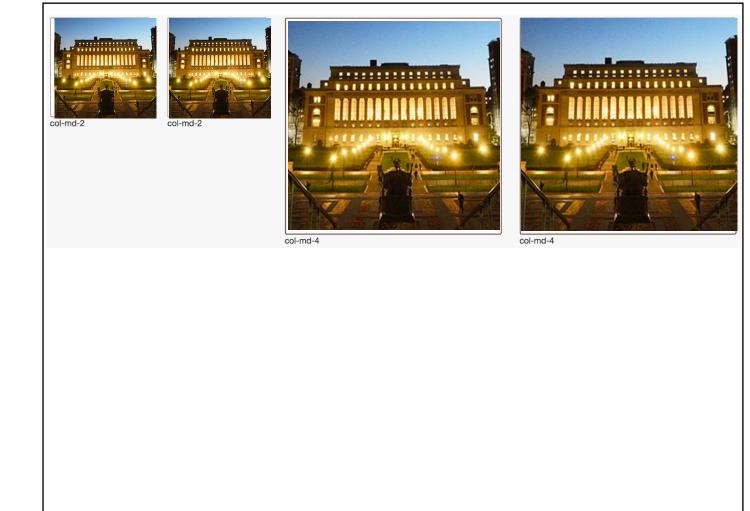
1. What will this produce?

```
<div class="container">
 <div class="row">
   <div class="col-md-3">
      <img src="./columbia.jpg">
   </div>
   <div class="col-md-3">
      <img src="./columbia.jpg">
   </div>
   <div class="col-md-3">
     <img src="./columbia.jpg">
   </div>
   <div class="col-md-3">
      <img src="./columbia.jpg">
   </div>
 </div>
</div>
```



2. What will this produce?

```
<div class="container">
 <div class="row">
   <div class="col-md-2">
      <img src="./columbia.jpg">
   </div>
   <div class="col-md-2">
      <img src="./columbia.jpg">
   </div>
   <div class="col-md-4">
     <img src="./columbia.jpg">
   </div>
   <div class="col-md-4">
      <img src="./columbia.jpg">
   </div>
 </div>
</div>
```



3. What will this produce?

```
<div class="container">
 <div class="row">
   <div class="col-md-3">
      <div class="row">
        <div class="col-md-6">
            <img src="./cu.jpg">
        </div>
        <div class="col-md-6">
            <img src="./cu.jpg">
        </div>
      </div>
   </div>
   <div class="col-md-3">
      <img src="./cu.jpg">
   </div>
   <div class="col-md-6">
   </div>
 </div>
</div>
```



Bootstrap solves another problem for you



EXPLORE











Medical Center

Libraries





4. Consistency and standards

Users should not have to wonder whether different words, situations, or actions mean the same thing. Follow platform conventions.



Bootstrap enables **responsive design**: making it easy for the layout to respond to changes in the screen size.

Four Device sizes



What will this do on a phone?

```
<div class="row">
  <div class="col-md-3 col-sm-6">
    <img src="./columbia.jpg">
  </div>
  <div class="col-md-3 col-sm-6">
    <img src ="./columbia.jpg">
  </div>
  <div class="col-md-3 col-sm-6">
    <img src ="./columbia.jpg">
  </div>
  <div class="col-md-3 col-sm-6">
    <img src ="./columbia.jpg">
  </div>
</div>
```



What's the difference in layout?

class="col-md-3"



col-md-3



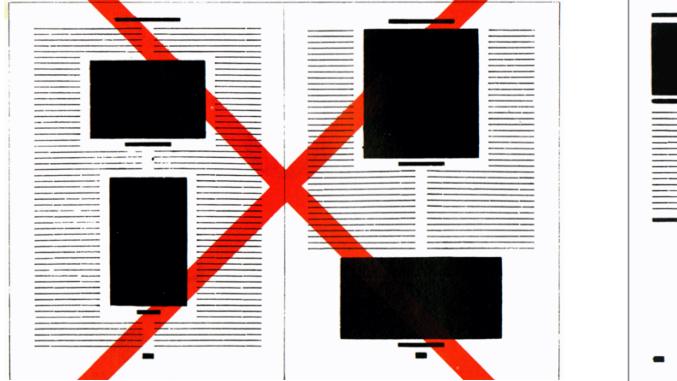
class="col-md-3 col-sm-6"

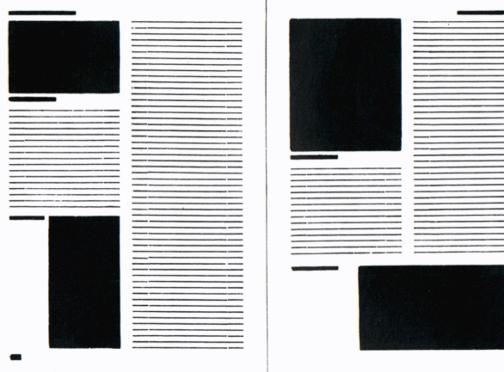


In summary...

The Bauhaus School of Design helped give rise to asymmetric grid layouts.

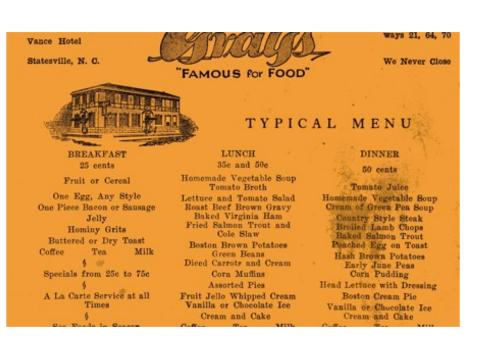






Old school information layout was symmetrical





Eggs and Omelettes Scrambled Eggs with English Kippered Herrings 1.00 Hangtown Fried Oyster Omelette 1.00 Specialties of the House SPAGHETTI DERBY: Italian Spaghetti, Fresh Tomatoes, Mushrooms and Meat Sauce 1.10 MEXICAN TAMALE (Old Fashioned Mexican Maize Chicken Tamale Fresh Daily) 90 CREAMED TURKEY DERBY (All White Meat, Served in Toasted Crouton, with Cranberry Jelly) 2.25 PAN FRIED CORNED BEEF HASH 1.00; with Poached Egg 1.25 STEAK HAMBURGER DE LUXE (Ground Sirloin Steak) with or without Onions, Potatoes 1.85 DE LUXE CHICKEN ENCHILADAS with Chili Con Carne and Frijoles 1.50 FILET MIGNON TID-BITS with Sliced Mushrooms, Chef's Special, Risotto 1.85 SCALLOPED CHICKEN A LA KING in Patty Shell, Peas in Butter 1.25 Entrees HUNGARIAN VEAL GOULASH with Egg Noodles Polonaise 1.50 RACK OF LAMB PARISIENNE in Casserole 1.50 BOILED HAM HOCKS and Baked Beans, Boston Brown Bread 95 PAN FRIED ROAST BEEF HASH, Poached Egg 1.00 MEDAILLONS OF PORK FILET Saute, Marsala, Timbale of Rice 1.50 FRESH ASPARAGUS with Fried Ham, Sauce Hollandaise 1.65 DERBY APPLE PANCAKE with Cinnamon Butter 1.10 EMINCE OF CALF'S LIVER with Mushrooms, in Sour Cream Sauce, Rice 1.20

Desserts Baked Fresh Rhubarb 50

Pastry Specials

Ice Cream 40

Blackbottom Pie 40

Parisian Pastries 40

Parfaits 50

Rio Rita Cake 40 Rice or Chocolate Pudding 3

Sherbet 40

BEVERAGES AS LISTED ON A LA CARTE MENU

Sales Tax will be added on all taxable items in accordance with the m Sorry we cannot be responsible for last articles Friday, January 17, 1947

Grids layouts help you convey importance with grouping, location, size, and whitespace.

Lorem Ipsum Dolor Sit Amet Consectetur

Lorem ipsum dolor sit amet

Consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.

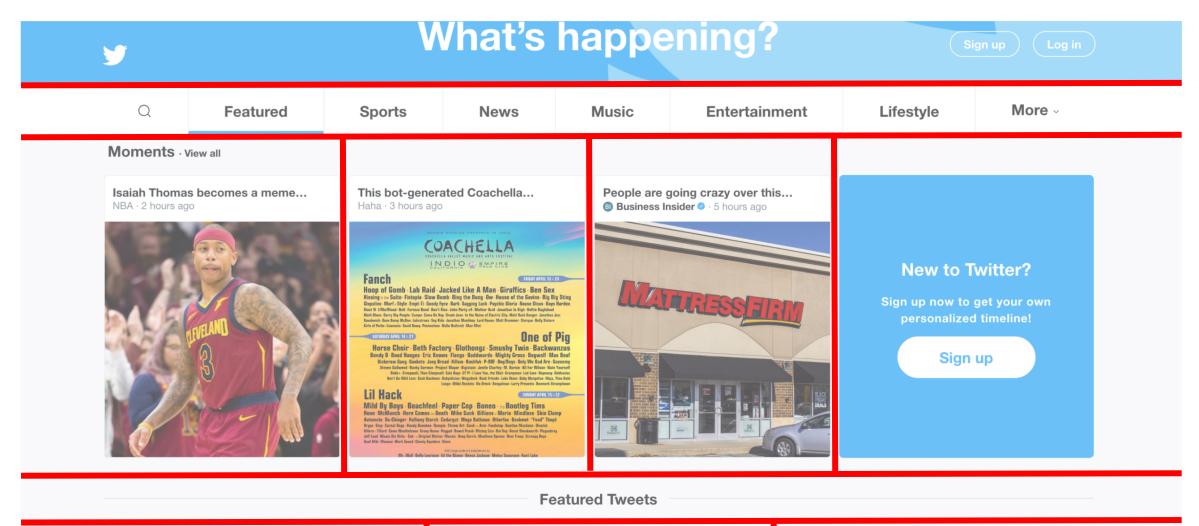
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Consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.

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Lonsectetur adipisicing elit, sed do elusmod tempor includunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.

Twitter Bootstrap is a widely used grid system.





Bootstrap allocates width into twelve columns

| .col-md-8 .col-md-4 .col-md-4 .col-md-4 .col-md-6 .col-md-6 | | .col- md-1 |
|---|---|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| .col-md-6 | | .col-md-8 | | | | | | | .col-md-4 | | | | |
| | ľ | .col-md-4 | | | .col-md-4 | | | | .col-md-4 | | | | |
| | | .col-md-6 | 3 | | | | | .col-md-6 | .col-md-6 | | | | |

Responsive design helps you specify the layout for different sized screens



EXPLORE







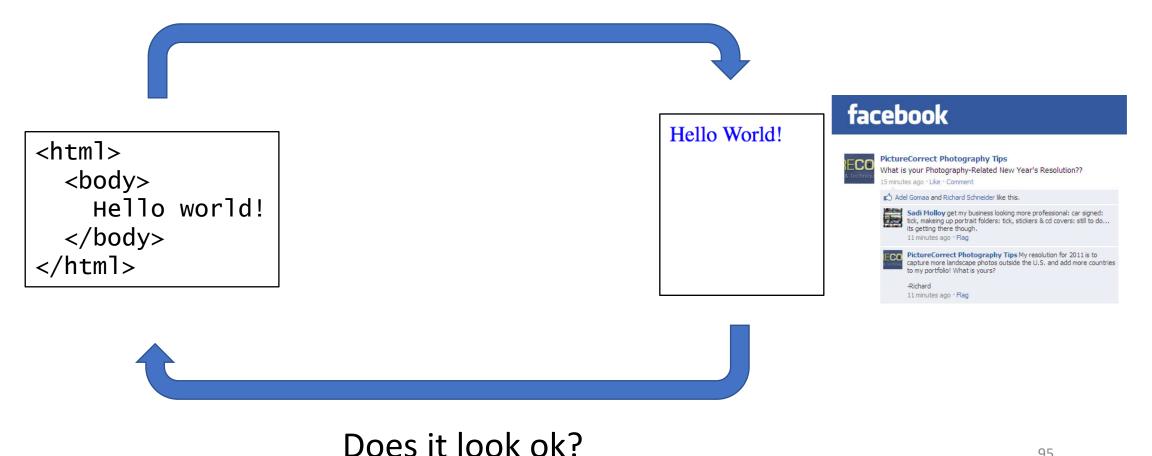
EXPLORE





Iterative Style of Programming helps you build a mental model of your code.

What's the **smallest** unit of progress I can make?



95

Homework 2: HTML and Grid Layout

Warm up: due Friday 1/31 @ 11:59pm on Courseworks Main: due Tuesday 2/4 @ 11:59pm on Courseworks. (accepted as on-time until Wednesday 2/5 @8am)

Problems:

- 1. Recreate the following webpage. (Shown below at two different screen sizes)
 - a. Use Bootstrap 5.0.2.
 - Add the following information in the in the <head> section to attached the correct version of bootstrap and to allow your browser to easily simulate responsive design:

<meta name="viewport" content="width=device-width, initial-scale=1">

k href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/css/bootstrap.min.css" rel="stylesheet"_crossorigin="anonymous">

| screen: | | | | | | | |
|----------|---|--|---|---|---|---|---|
| C 🛈 File | le /Users/Iydiachilton/Dropbox/Columbia/Teaching/4170/Spring2022/hw 🖄 🊖 🔕 🔼 🗎 🗮 🦃 | | - | ٠ | | ۲ | : |
| | This row is lightblue, with centered text and has 1 column | | | | | | |
| Column 1 | Column 2 Column 3 Column 4 | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
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| | | C ① File /Users/lydiachilton/Dropbox/Columbia/Teaching/4170/Spring2022/hw ☆ ☆ ⓒ 🙇 📄 🗮 🤗 This row is lightblue, with centered text and has 1 column | C 💿 File /Users/lydiachilton/Dropbox/Columbia/Teaching/4170/Spring2022/hw 🖞 🖈 💿 👖 📄 📰 🧼 N This row is lightblue, with centered text and has 1 column | C 💿 File /Users/lydiachilton/Dropbox/Columbia/Teaching/4170/Spring2022/hw 🖄 🚖 💿 🚨 🗎 🥮 N 🛒 | C 💿 File /Users/lydiachilton/Dropbox/Columbia/Teaching/4170/Spring2022/hw 👌 🚖 💿 🚨 🗎 🥮 N 🛒 🌲 | C 🕜 File /Users/lydiachilton/Dropbox/Columbia/Teaching/4170/Spring2022/hw 👌 🚖 💿 🧱 📄 🗮 🤗 N 🤌 🏞 🗖 This row is lightblue, with centered text and has 1 column | C 🕜 File /Users/lydiachilton/Dropbox/Columbia/Teaching/4170/Spring2022/hw 👌 🚖 😋 🜉 🖹 🗏 🧼 N 🤘 🏠 🖬 👘 |

x-small screen:



Start Picking your TA - Wednesday @3pm

For the final Project, you will work in teams of 2-4.

Your team mates must be in the same TA group.

So if you have friends you might want to work with, make sure you all sign up for the same TA group and time.

| ⊞ | TA Section Groups ☆ File Edit View Insert Fo | | Help |
|-----|---|-----------------------------|------------------|
| С | くちさ骨骨100%、 | \$ % .0 .00 123 Det | faul 10 |
| G17 | ✓ fx | | |
| | A | В | С |
| 1 | TA Name | Time Slot | Firstname Lastn |
| 2 | Griffin Newbold | Wednesdays - 1 to 1:45pm | Lydia |
| 3 | Griffin Newbold | Wednesdays - 1 to 1:45pm | Lydia's Friend 1 |
| 4 | Griffin Newbold | Wednesdays - 1 to 1:45pm | Lydia's Friend 2 |
| 5 | Griffin Newbold | Wednesdays - 1 to 1:45pm | |
| 6 | Griffin Newbold | Wednesdays - 1 to 1:45pm | |
| 7 | Griffin Newbold | Wednesdays - 1 to 1:45pm | |
| 8 | Griffin Newbold | Wednesdays - 1 to 1:45pm | |
| 9 | Griffin Newbold | Wednesdays - 1 to 1:45pm | |
| 10 | Griffin Newbold | Wednesdays - 1 to 1:45pm | |
| 11 | Griffin Newbold | Wednesdays - 1:45 to 2:30pm | Lydia's Friend 3 |
| 12 | Griffin Newbold | Wednesdays - 1:45 to 2:30pm | |
| 13 | Griffin Newbold | Wednesdays - 1:45 to 2:30pm | |
| 14 | Griffin Newbold | Wednesdays - 1:45 to 2:30pm | |
| 15 | Griffin Newbold | Wednesdays - 1:45 to 2:30pm | |
| 16 | Griffin Newbold | Wednesdays - 1:45 to 2:30pm | |
| 17 | Griffin Newbold | Wednesdays - 1:45 to 2:30pm | |
| 18 | Griffin Newbold | Wednesdays - 1:45 to 2:30pm | |
| 19 | Griffin Newbold | Wednesdays - 1:45 to 2:30pm | |
| 20 | Jessica Liang | Wednesdays - 1 to 1:45pm | |
| 21 | Jessica Liang | Wednesdays - 1 to 1:45pm | |
| 22 | Jessica Liang | Wednesdays - 1 to 1:45pm | |