

Layout and Grids

No screens



Prof. Lydia Chilton
COMS 4170
24 January 2018

COMS 4170 Goal 1

Build websites that suit the needs and abilities of users

The main goal of many websites is to
display information users need.



Windows 95 Video Guide with Matthew Perry & Jennifer Aniston

216,782 views

2K 48 SHARE



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Subscribe and watch scenes from all seasons of Friends on my channel - https://www.youtube.com/channel/UCA8V...

SHOW MORE

Up next

AUTOPLAY



Friends - The One that Goes Behind the Scenes
Favorite Videos
1.8M views



Would I Lie to You? - S11 E08 (NEW WILTY 19th January)
David Mitchell
Recommended for you
New



Actor Replacements That Totally Ruined The Show
Looper
3M views



Inside Matthew Perry's Tragic Real Life Story
Nicki Swift
952K views



Friends - ET On VH1: Behind The Friends Finale
Favorite Videos
1M views



REACT S7 E19 TEENS REACT TO WINDOWS 95
FBE
12M views



Friends - Ross and Monica's Cousin
Favorite Videos
3.6M views

Mail

COMPOSE

- Inbox (2)
- Sent Mail
- Drafts (54)
- Need to Read
- Technology Coach
- More

Primary	Social	Promotions	Updates
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Baldwin, BPS (2)			Bioglovin' - Not that I know of. Sometimes blocked sites come in on a hug 11:08 am
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Feldmann, Ann			Fwd: 21st Century Classroom Visit? - Ann Feldmann District Technolog 10:18 am
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> me, Lambert (2)			8th Period - Hey, Jeff. I am planning on doing the Mystery Hangout lesson 8:05 am
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> me			(no subject) - -- Jeffrey Bernadt District Technology Specialist Bellevue Pu Jan 12
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> me, Braasch, Klamm (3)			Visitation & Observation Request - Good morning! The second semester is Jan 12
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> me, Cox (2)			Bri Cox - Coaching Doc - Invitation to edit - Jeff, I finally was able to read a Jan 12
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Tripple, Todd			3D Printer - Hello Amy, I received some information from a 3D printing exp Jan 11
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> donotreply			Education Preview Build Notice - AppleSeed Build Notice Education Pre Jan 11
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Ann Feldmann			Fwd: [New post] What "Innovative Leadership" Looks Like - A good read! : Jan 11
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> me, Campbell (7)			Khan Academy Issues - It kept repeating that "changed password 7 month Jan 8
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Toelle, me (3)			6 Word Stories - Hey Jeff! We just returned from lunch, but still have quite Jan 8
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> me, Evon (4)			Request to Visit on Thursday AM - Hi Jeff, Happy New Year! We would lov Jan 6
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Jeffrey Bernadt			Shared from Twitter: What teachers need to know about multicultural educ 12/23/15

- Search people...
- Jed Givens
 - Ann Feldmann
 - Ann Feldmann
 - Cadwallader, Julie
 - Christopher Kessell
 - Courtney Saffold
 - Jeanette Carlson
 - Johnson, Stephanie
 - Kelly Bernadt
 - Loomis, Phillip
 - Robert Mason
 - Shannon Gier
 - Todd Tripple
 - Toledo, Julian (Delor...

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.



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

11 minutes ago · Flag



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



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



Latu Peti Vimahi Manulua-hafoka learn learn learn!!!

4 minutes ago · Flag



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



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

about a minute ago · Flag

Layout in HTML

How to construct the layout of information in HTML and CSS

Today's goal:

Remake this information layout in HTML and CSS



The image shows a Facebook post from the page 'PictureCorrect Photography Tips'. The post title is 'What is your Photography-Related New Year's Resolution??'. It was posted 15 minutes ago and has been liked by Adel Gomaa and Richard Schneider. Below the post, several users have commented with their resolutions for 2011. The comments are: Sadi Molloy (get my business looking more professional: car signed: tick, making up portrait folders: tick, stickers & cd covers: still to do... its getting there though, 11 minutes ago), 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), James Donnelly (Larger concerts to cover and improve my portrait editing style/skill, 10 minutes ago), Jose Antonio Rubido (To push my photpography foward full throttle, 9 minutes ago), Deacon Jonathan Jerome Johnson (To learn more and enhance the quality of my shots!, 5 minutes ago), and Latu Peti Vimahi Manulua-hafoka (learn learn learn!!!).

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.

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

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?
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11 minutes ago · Flag

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

Latu Peti Vimahi Manulua-hafoka learn learn learn!!!

Iterative Style of Programming

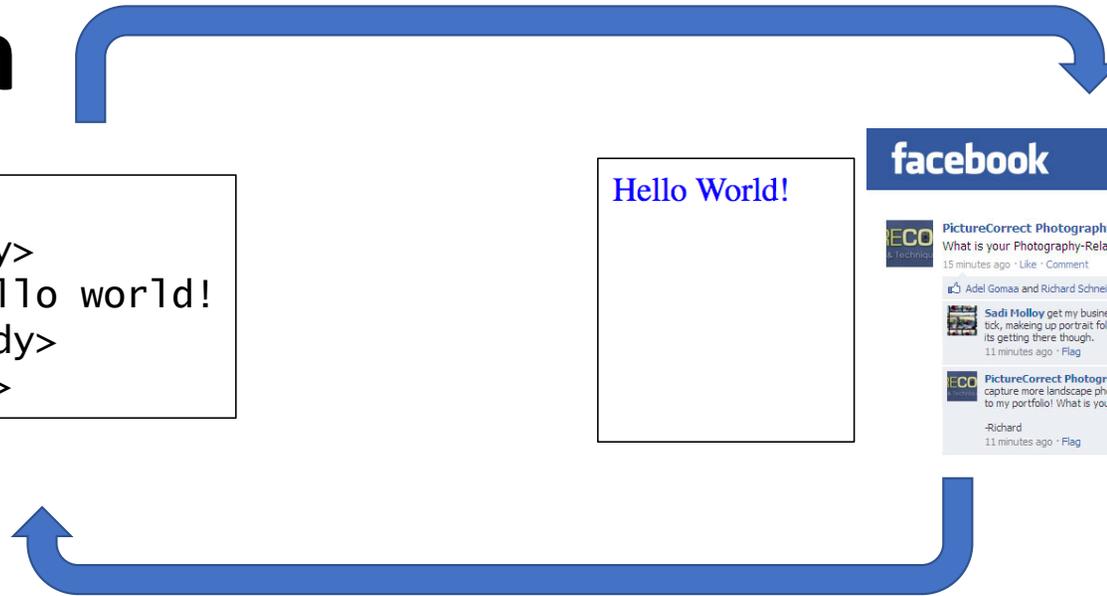
What's the most **basic** thing I can do to make **necessary** progress towards my goal?

Iteration

Goal

```
<html>
  <body>
    Hello world!
  </body>
</html>
```

Hello World!

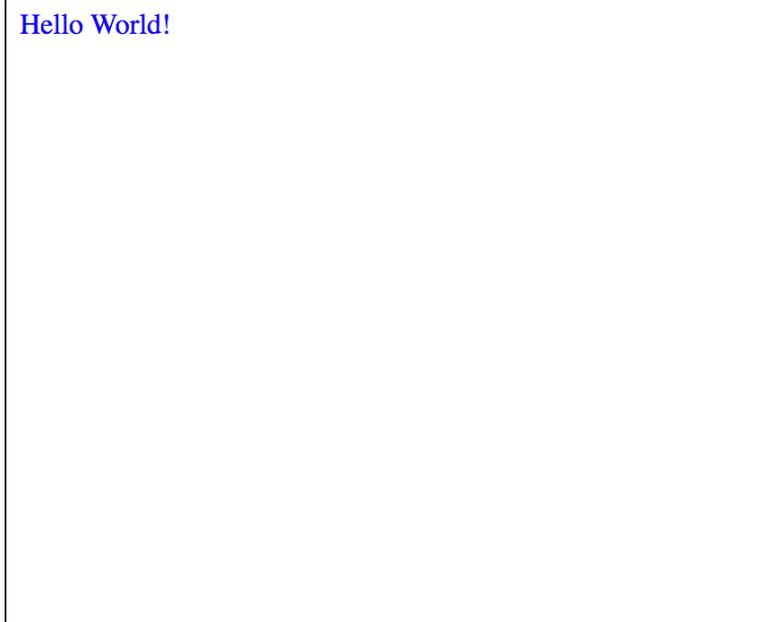


Does it look ok?

Step 0. Make a html page, connect some CSS

```
<!DOCTYPE html>
<html>
<head>
<style>
  #test{
    color: blue;
  }
</style>
</head>

<body>
  <div id="test">Hello World!</div>
</body>
</html>
```



List 20 things we could we do first.

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.



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

11 minutes ago · Flag



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



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



Latu Peti Vimahi Manulua-hafoka learn learn learn!!!

4 minutes ago · Flag

Make a container div

```
1 <div id="container">  
2  
3 </div>
```

```
1 #container{  
2   width: 50px;  
3   height: 50px;  
4   background-color: grey;  
5 }  
6
```



What next?



The screenshot shows a Facebook post from the page 'PictureCorrect Photography Tips'. The post title is 'What is your Photography-Related New Year's Resolution??' and it was posted 15 minutes ago. Below the title, it shows that Adel Gomaa and Richard Schneider liked the post. The main content of the post is a list of resolutions from several users:

- Sadi Molloy** get my business looking more professional: car signed: tick, making up portrait folders: tick, stickers & cd covers: still to do... its getting there though. (11 minutes ago · Flag)
- 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)
- 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)
- Latu Peti Vimahi Manulua-hafoka** learn learn learn!!! (4 minutes ago · Flag)

Container div has realistic width.

```
1 <div id="container">  
2  
3 </div>
```

```
1 #container{  
2   width: 350px;  
3   height: 50px;  
4   margin: 50px;  
5   background-color: grey;  
6 }
```



What next?



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.

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

 **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?
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11 minutes ago · Flag

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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

 **Latu Peti Vimahi Manulua-hafoka** learn learn learn!!!
4 minutes ago · Flag

Blue facebook header

```
1 <div id="container">
2   <div id="fb_brand">
3     FACEBOOK
4   </div>
5 </div>
```

```
1 #container{
2   width: 350px;
3   margin: 50px;
4 }
5
6 #fb_brand{
7   background-color: blue;
8   color: white;
9 }
```



FACEBOOK

What next?

FACEBOOK

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.



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

11 minutes ago · Flag



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?

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11 minutes ago · Flag



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10 minutes ago · Flag



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9 minutes ago · Flag



Deacon Jonathan Jerome Johnson To learn more and enhance the quality of my shots!

5 minutes ago · Flag



Latu Peti Vimahi Manulua-hafoka learn learn learn!!!

4 minutes ago · Flag

Blue facebook header

```
1 <div id="container">
2   <div id="fb_brand">
3     FACEBOOK
4   </div>
5 </div>
```

```
1 #container{
2   width: 350px;
3   margin: 50px;
4 }
5
6 #fb_brand{
7   background-color: blue;
8   color: white;
9   padding-left: 40px;
10  padding-top: 20px;
11  padding-bottom: 20px;
12 }
```



FACEBOOK

What next?

FACEBOOK

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.



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

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9 minutes ago · Flag



Deacon Jonathan Jerome Johnson To learn more and enhance the quality of my shots!

5 minutes ago · Flag



Latu Peti Vimahi Manulua-hafoka learn learn learn!!!

4 minutes ago · Flag

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>
```



FACEBOOK
FIRST POST

What next?

FACEBOOK

FIRST POST

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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5 minutes ago · Flag



Latu Peti Vimahi Manulua-hafoka learn learn learn!!!

4 minutes ago · Flag

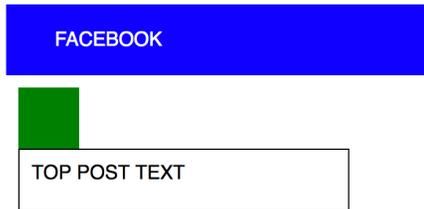
Add internal structure to the first post

```
6 <div id="top_post">
7   <div id="top_post_image">
8   </div>
9   <div id="top_post_text">
10    TOP POST TEXT
11  </div>
12 </div>
```

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



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`

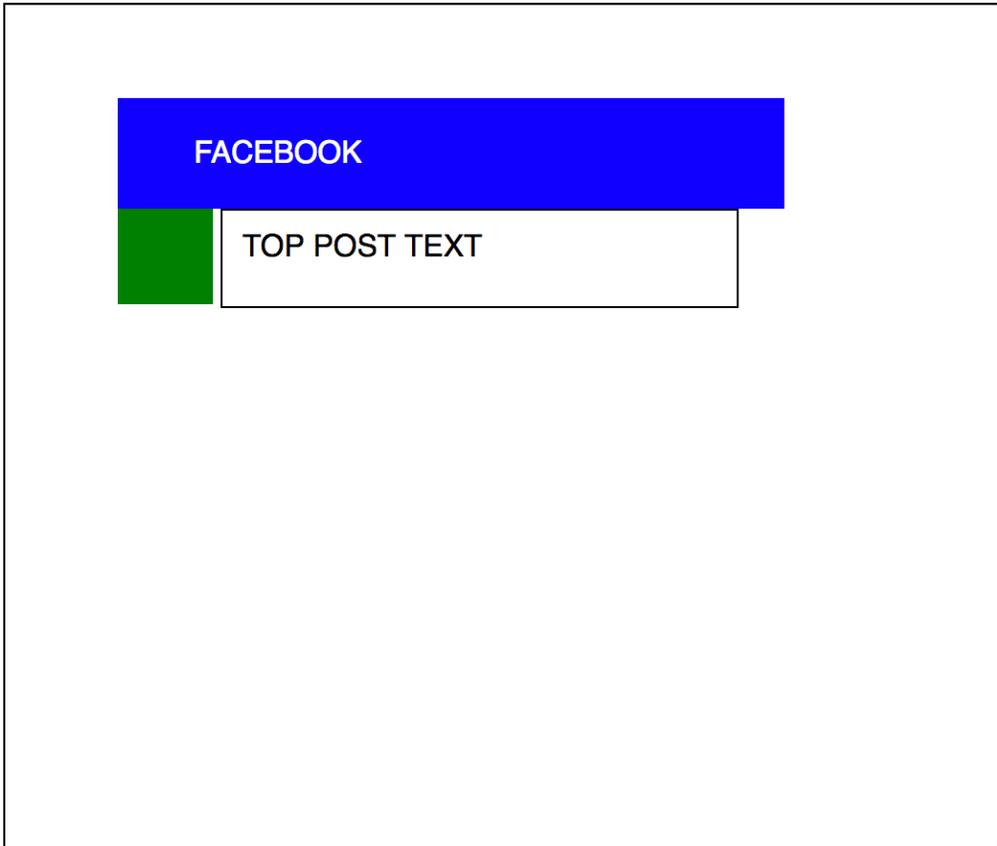


```
18 #top_post_image{
19   height: 50px;
20   width: 50px;
21   background-color: green;
22   /*display: inline-block;*/
23 }
24
25 #top_post_text{
26   height: 30px;
27   width: 250px;
28   padding: 10px;
29   border: 1px solid black;
30   /*display: inline-block;*/
31   vertical-align: top;
32 }
```



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

What next?



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.

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

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?
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10 minutes ago · Flag

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

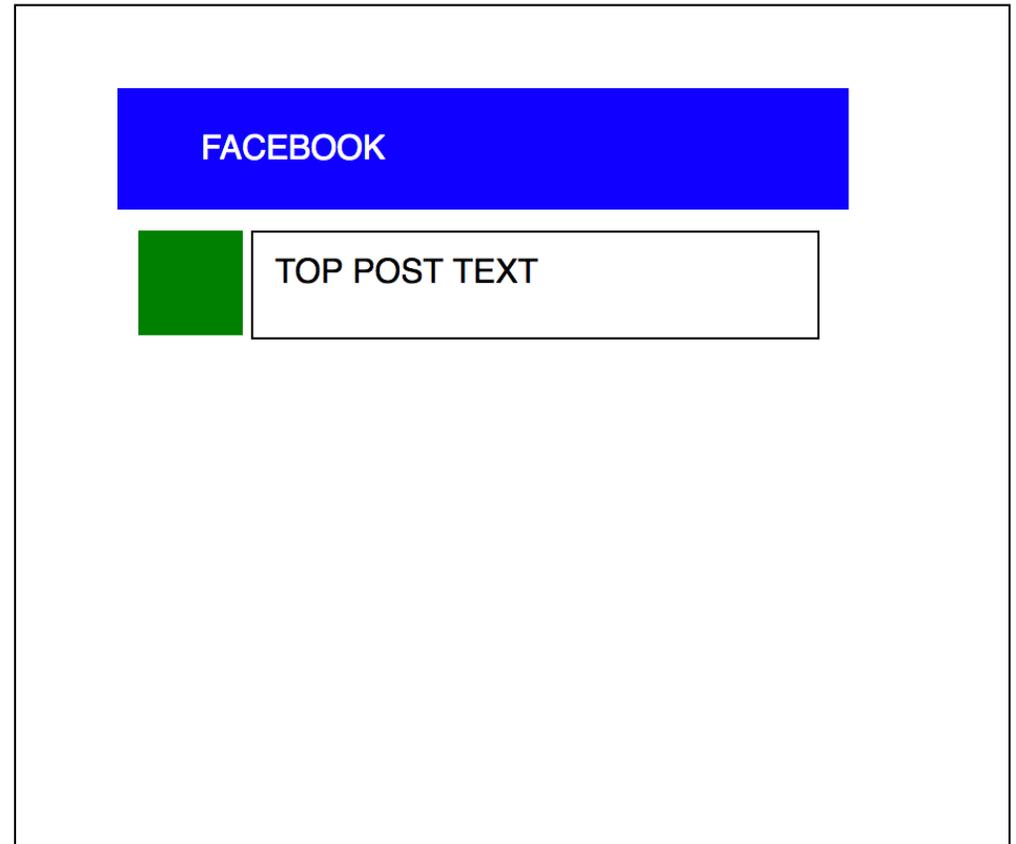
Deacon Jonathan Jerome Johnson To learn more and enhance the quality of my shots!
5 minutes ago · Flag

Latu Peti Vimahi Manulua-hafoka learn learn learn!!!
4 minutes ago · Flag

Add padding on the top post

```
6 <div id="top_post">
7   <div id="top_post_image">
8   </div>
9   <div id="top_post_text">
10    TOP POST TEXT
11  </div>
12 </div>
13
```

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



What next?

FACEBOOK

TOP POST TEXT

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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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

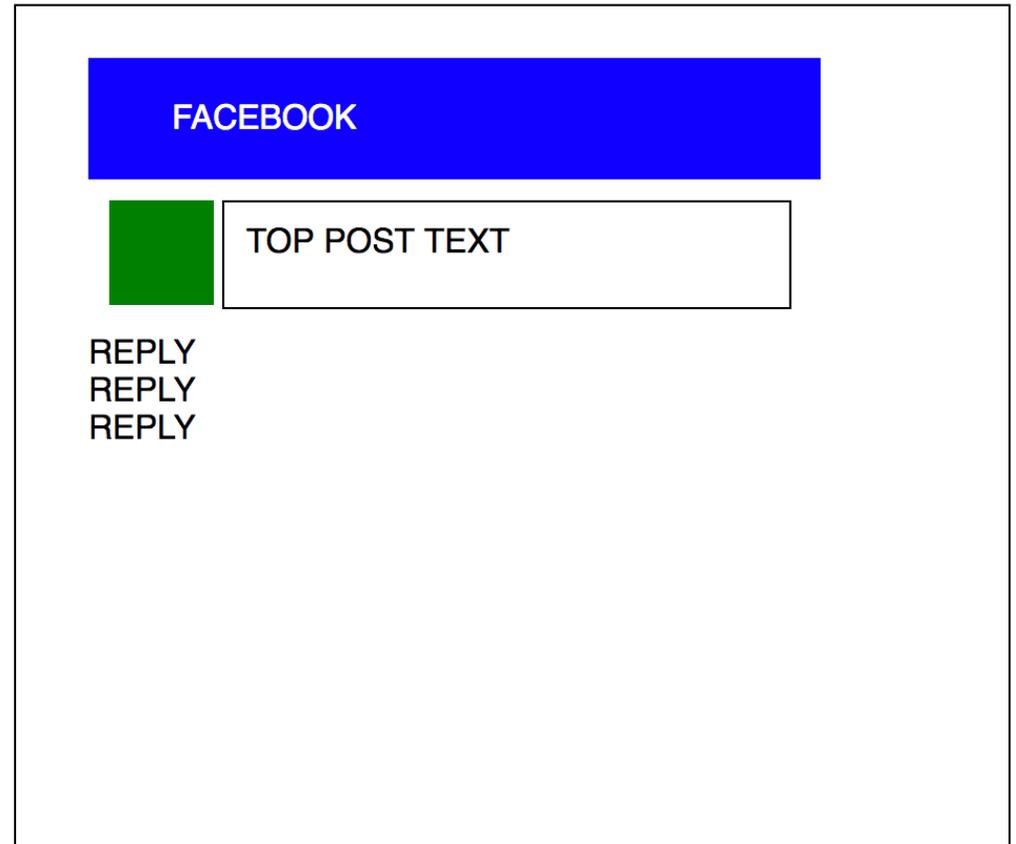


Latu Peti Vimahi Manulua-hafoka learn learn learn!!!

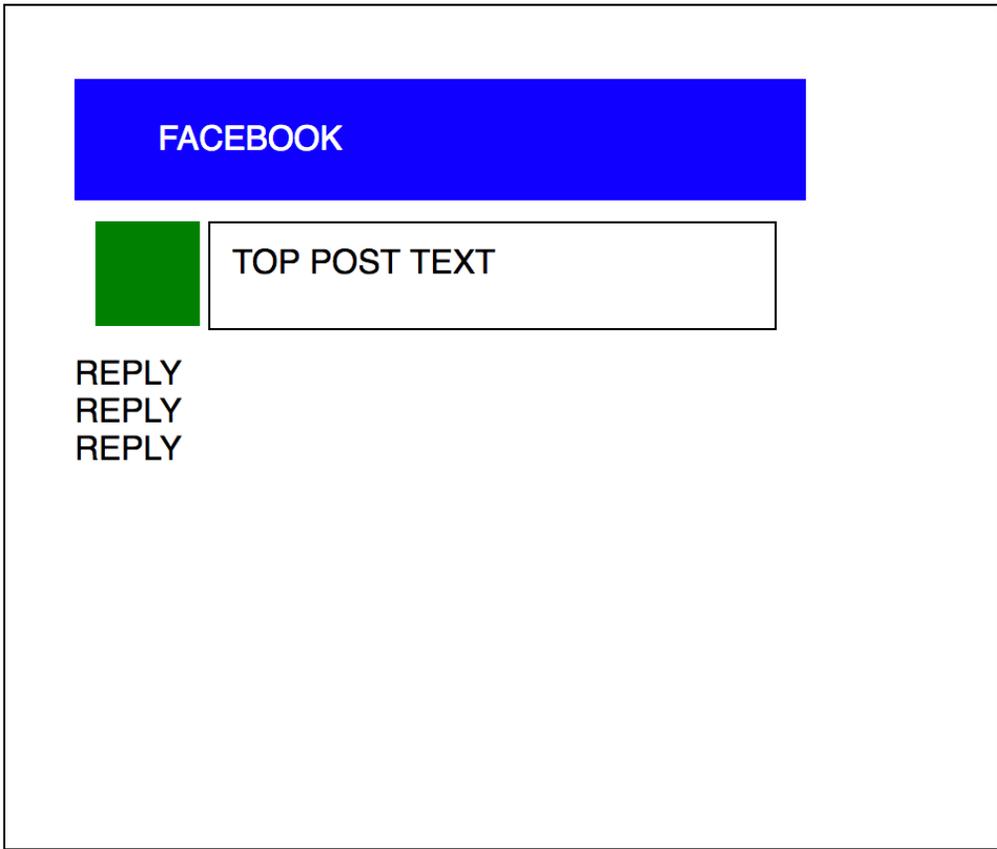
4 minutes ago · Flag

Replies

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



What next?



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

 Adel Gomaa and Richard Schneider like this.

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

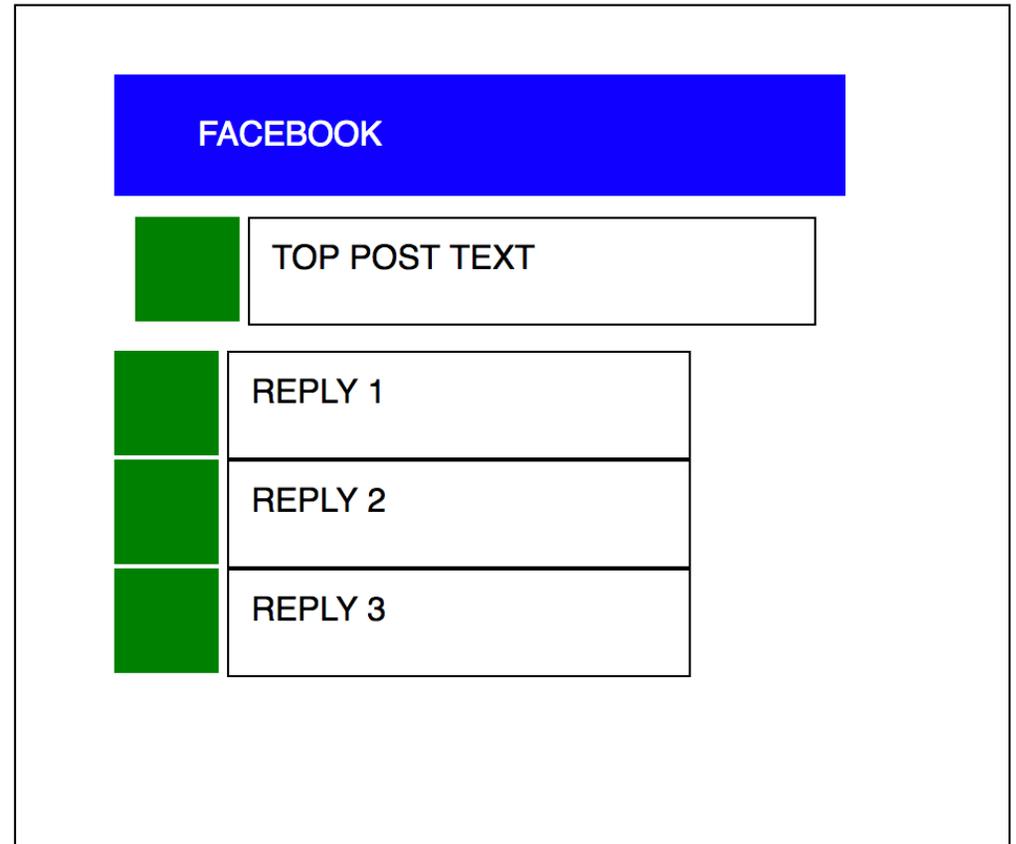
 **Deacon Jonathan Jerome Johnson** To learn more and enhance the quality of my shots!
5 minutes ago · Flag

 **Latu Peti Vimahi Manulua-hafoka** learn learn learn!!!
4 minutes ago · Flag

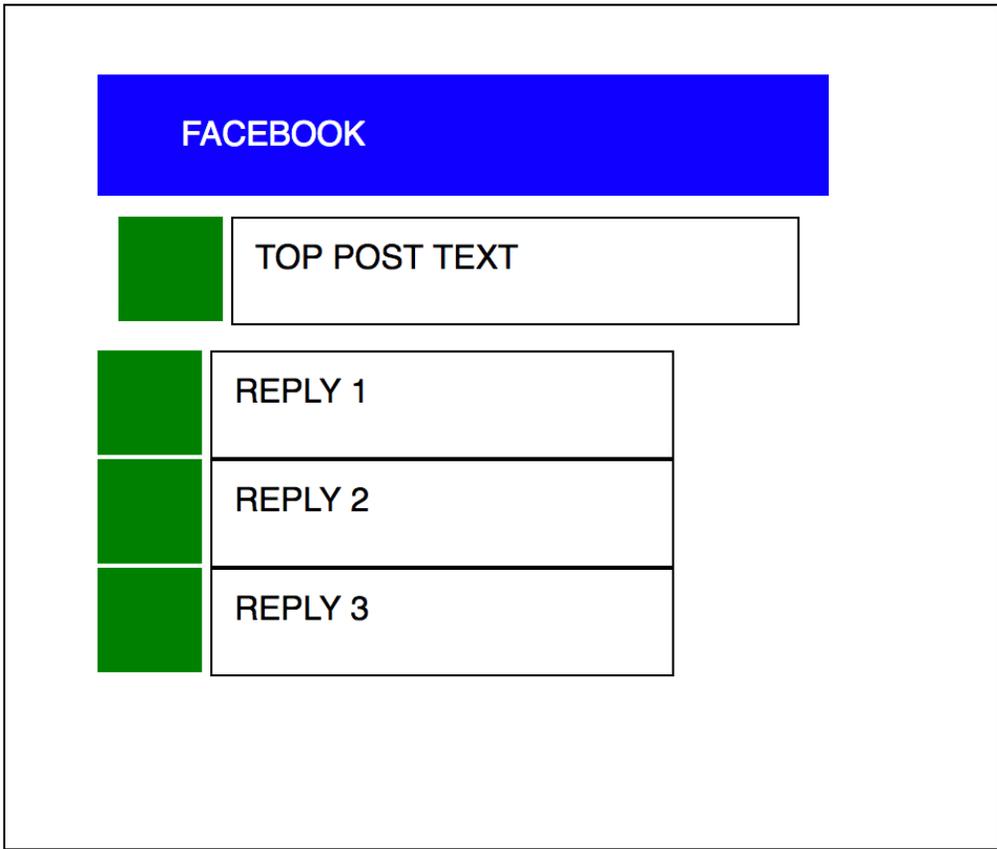
Reply substructure: image and text

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

```
35 .reply_image{
36   height: 50px;
37   width: 50px;
38   background-color: green;
39   display: inline-block;
40   vertical-align: top;
41 }
42
43 .reply_text{
44   height: 30px;
45   width: 200px;
46   padding: 10px;
47   border: 1px solid black;
48   display: inline-block;
49   vertical-align: top;
50 }
```



What next?



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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9 minutes ago · Flag

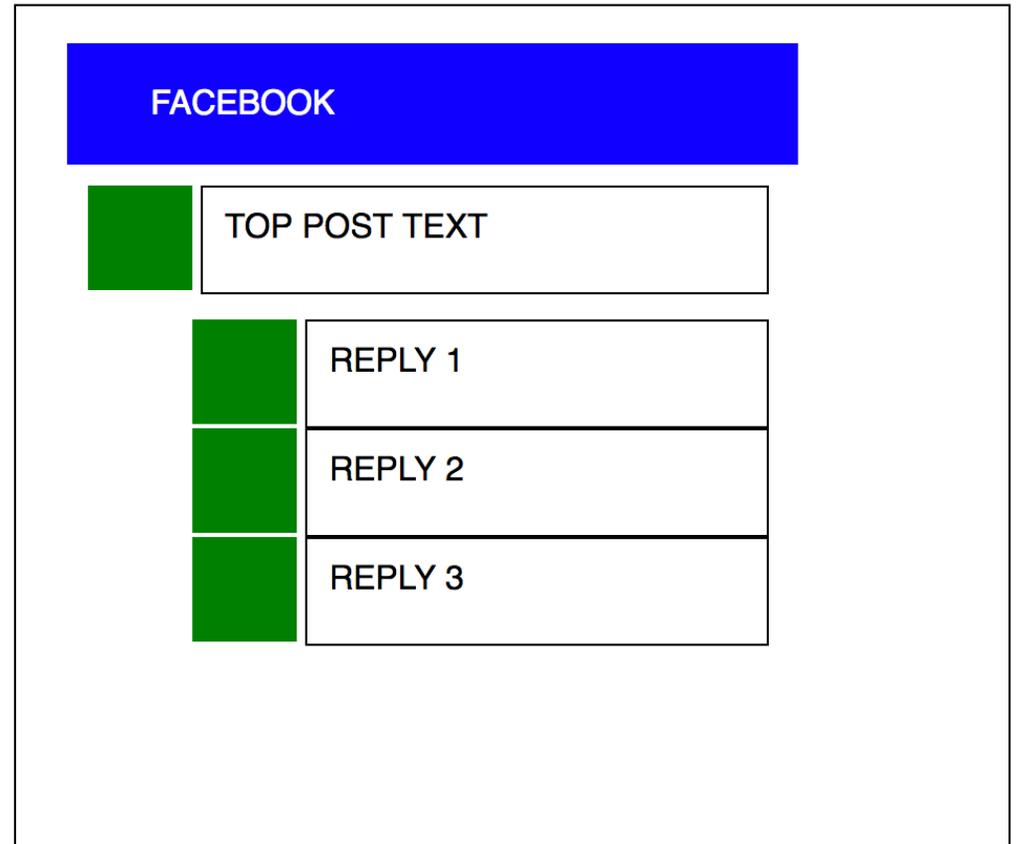
Deacon Jonathan Jerome Johnson To learn more and enhance the quality of my shots!
5 minutes ago · Flag

Latu Peti Vimahi Manulua-hafoka learn learn learn!!!
4 minutes ago · Flag

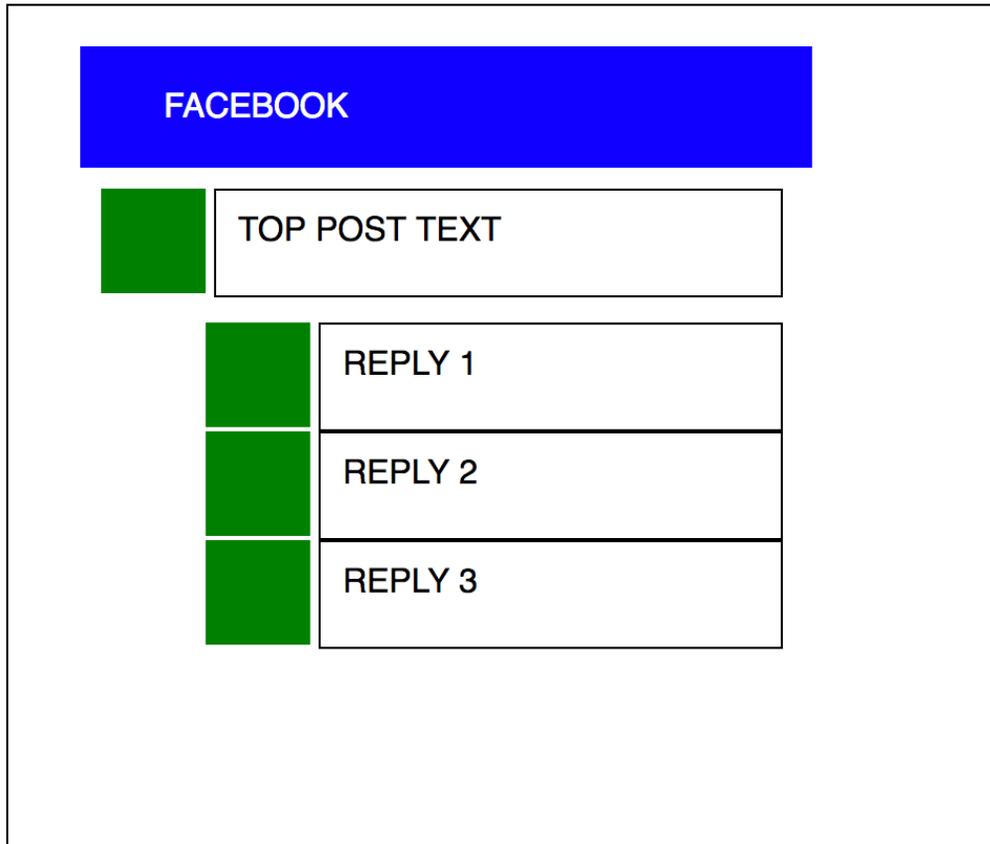
Reply Container positioning

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

```
35 #reply_container{
36   padding-left: 60px;
37 }
38
```



What next?



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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11 minutes ago · Flag

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

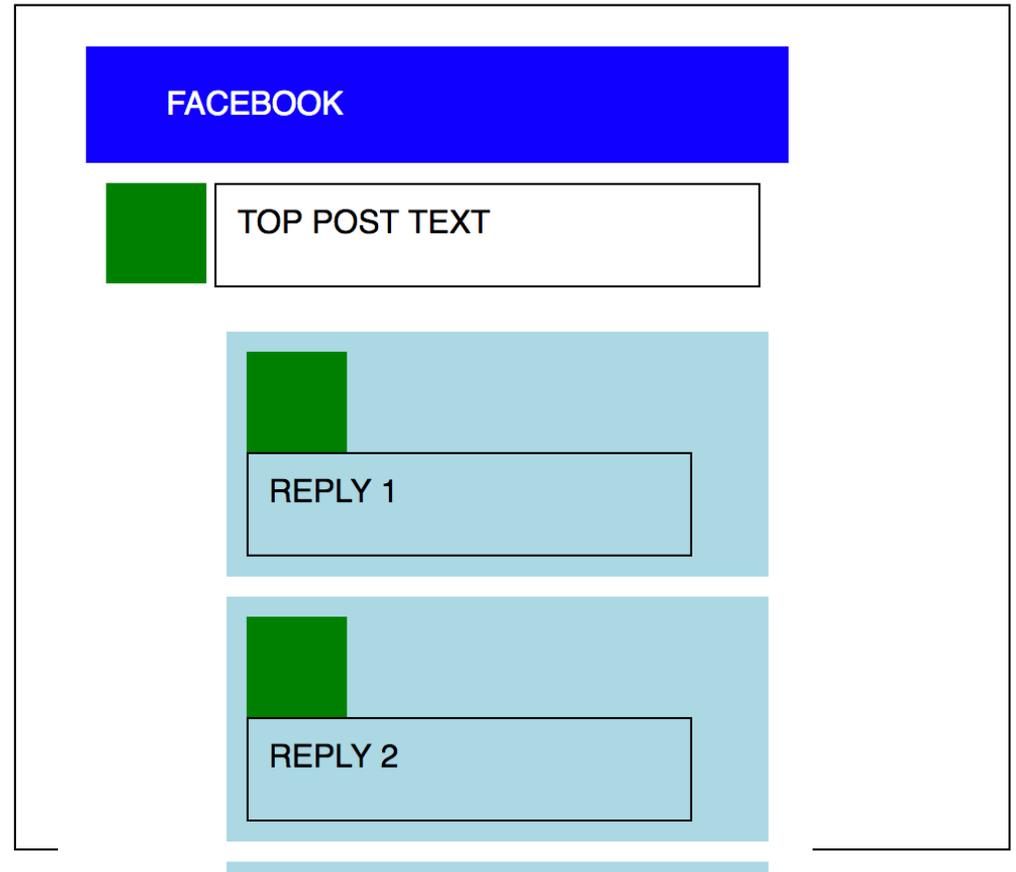
Deacon Jonathan Jerome Johnson To learn more and enhance the quality of my shots!
5 minutes ago · Flag

Latu Peti Vimahi Manulua-hafoka learn learn learn!!!
4 minutes ago · Flag

Reply Class background-color

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

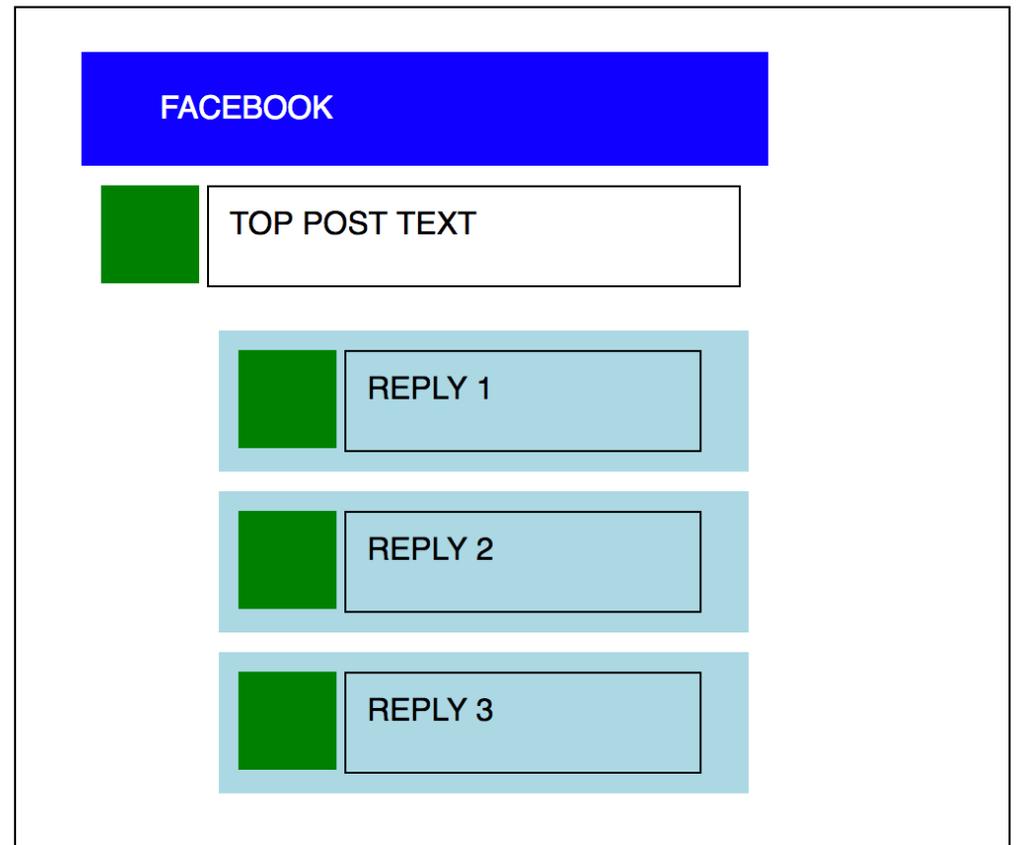
```
39 .reply{
40   background-color: lightblue;
41   padding: 10px;
42   margin: 10px;
43 }
44
```



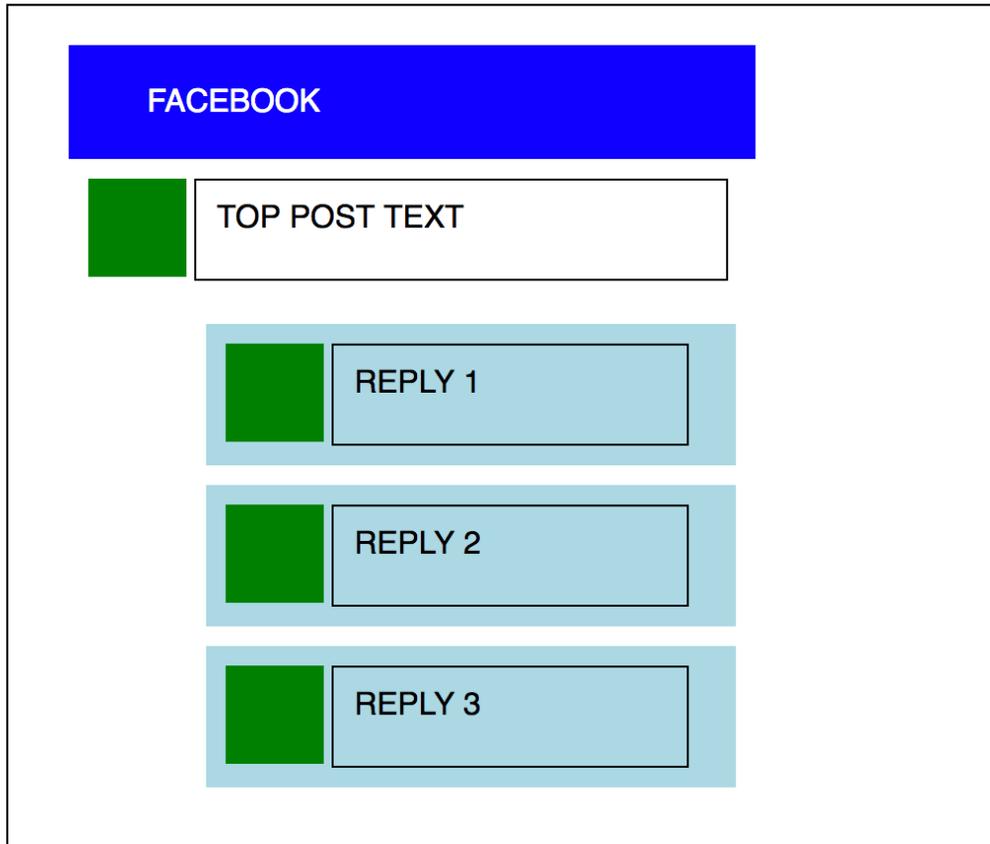
Reduce Reply Text Width

```
13 <div id="reply_container">
14   <div class="reply">
15     <div class="reply_image">
16     </div>
17     <div class="reply_text">
18       REPLY 1
19     </div>
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 }
```



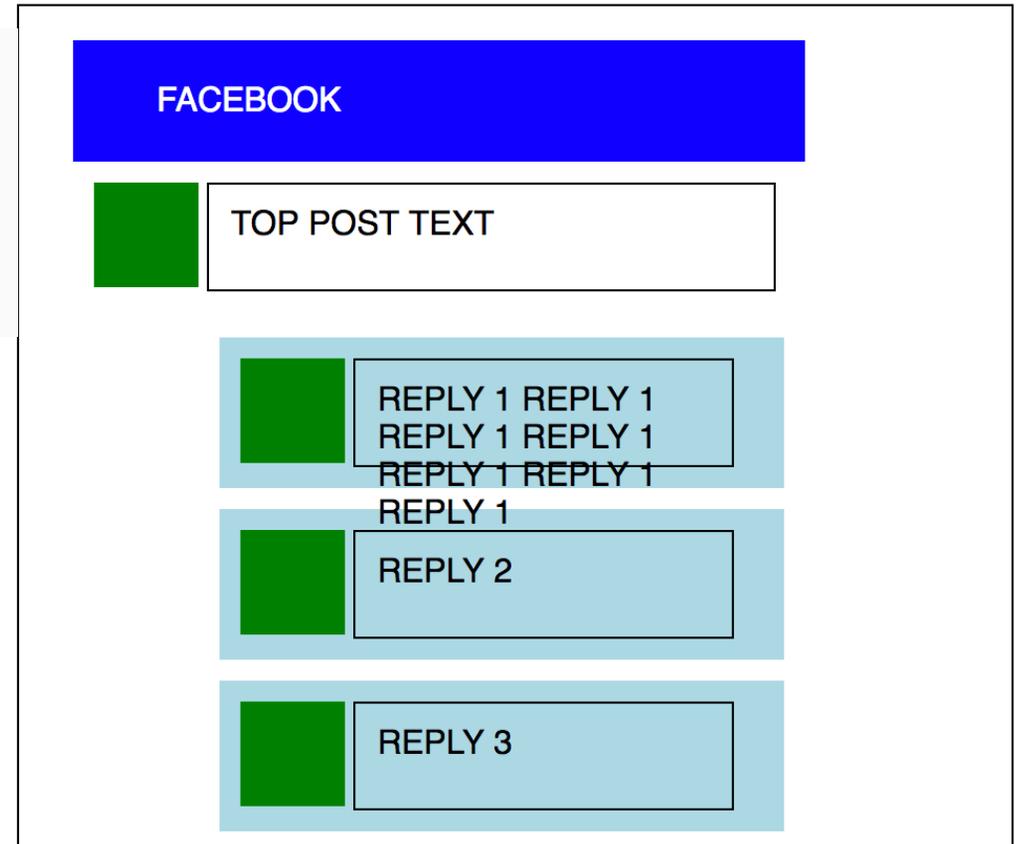
What next? Am I done?



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>
```

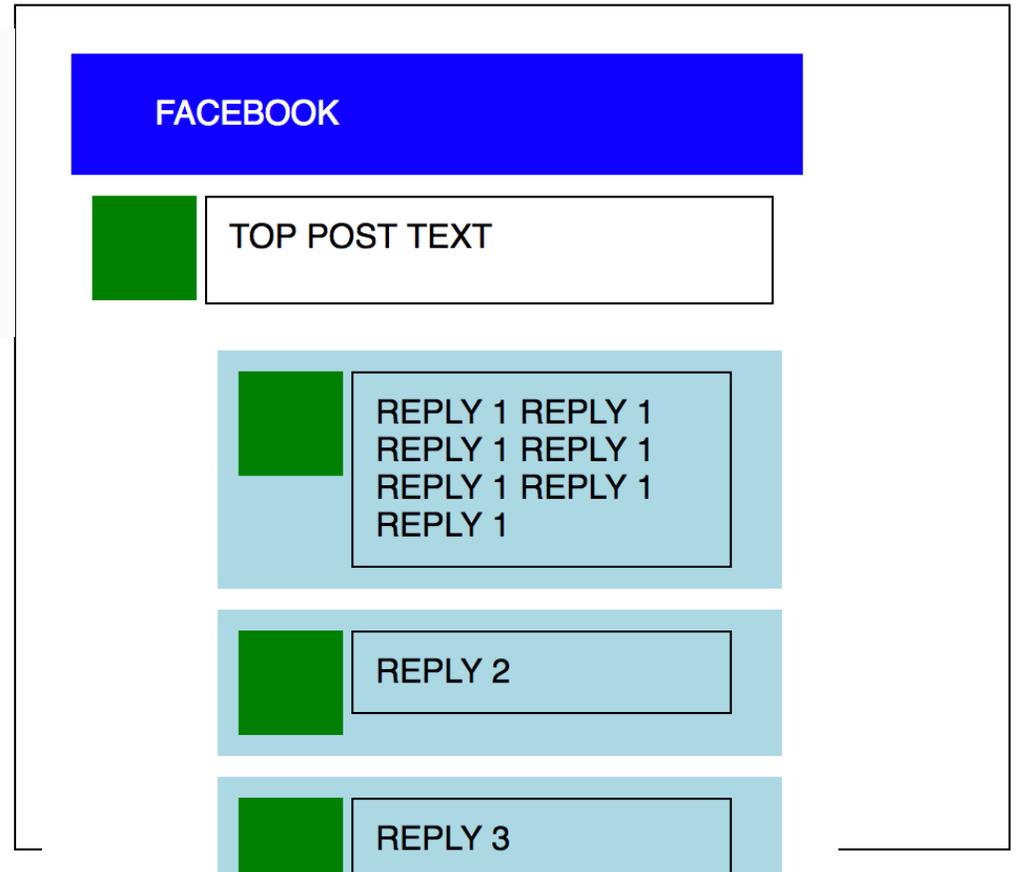
```
53 .reply_text{
54   height: 30px;
55   width: 160px;
56   padding: 10px;
57   border: 1px solid black;
58   display: inline-block;
59   vertical-align: top;
60 }
```



Reply Text height fixed

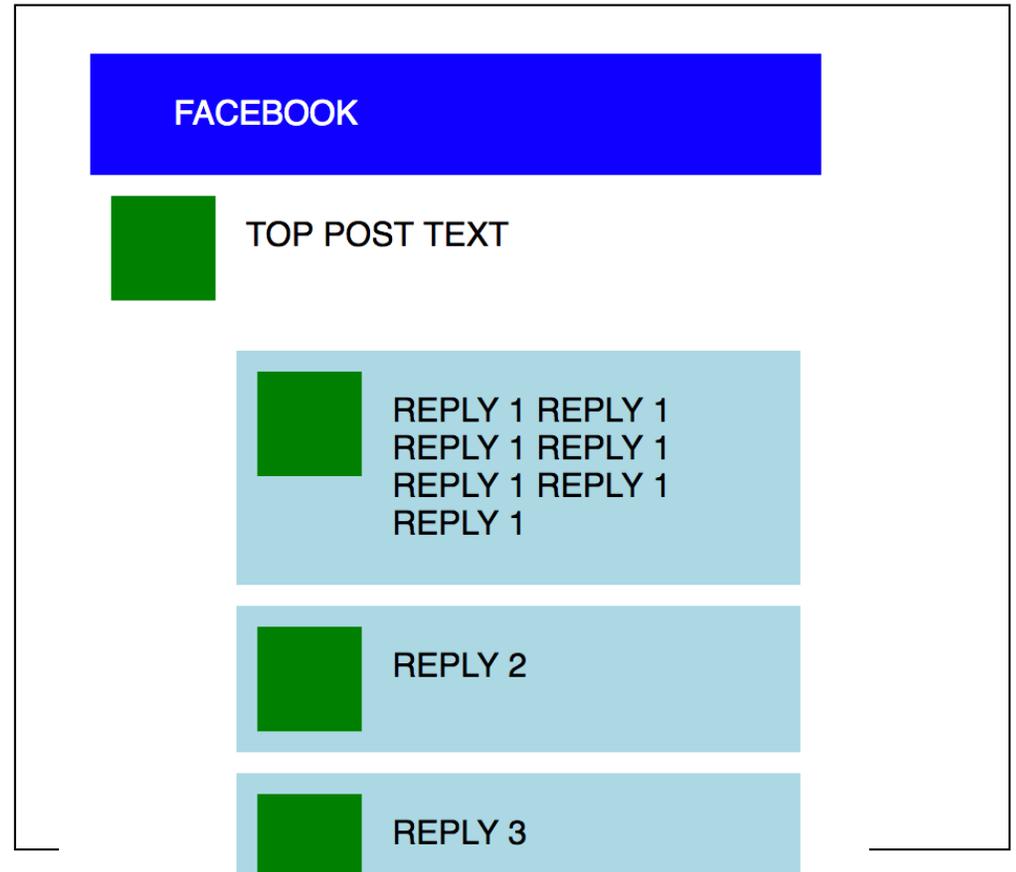
```
14 <div class="reply">
15   <div class="reply_image">
16   </div>
17   <div class="reply_text">
18     REPLY 1 REPLY 1 REPLY 1 REPLY 1 REPLY 1
19     REPLY 1 REPLY 1
20   </div>
21 </div>
```

```
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 }
```



Remove borders

```
25 #top_post_text{
26   height: 30px;
27   width: 250px;
28   padding: 10px;
29   /*border: 1px solid black;*/
30   display: inline-block;
31   vertical-align: top;
32
33 }
34
53 .reply_text{|
54   width: 160px;
55   padding: 10px;
56   /*border: 1px solid black;*/
57   display: inline-block;
58   vertical-align: top;
59 }
```



FACEBOOK

TOP POST TEXT

REPLY 1 REPLY 1
REPLY 1 REPLY 1
REPLY 1 REPLY 1
REPLY 1

REPLY

REPLY 3

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.



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

11 minutes ago · Flag



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



...er concerts to cover and improve my portrait

3 minutes ago · Flag



...se A...io Ru... To push my photpography foward full throttle

5 minutes ago · Flag



Deacon Jonathan Jerome Johnson To learn more and enhance the quality of my shots!

5 minutes ago · Flag



Latu Peti Vimahi Manulua-hafoka learn learn learn!!!

4 minutes ago · Flag



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

NAILED IT!

After layout... what next?

The Facebook logo, consisting of the word "facebook" in white lowercase letters on a dark blue rectangular background.

PictureCorrect Photography Tips

What is your Photography-Related New Year's Resolution??

15 minutes ago · Like · Comment

 Adel Gomaa and Richard Schneider like this.



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

11 minutes ago · Flag



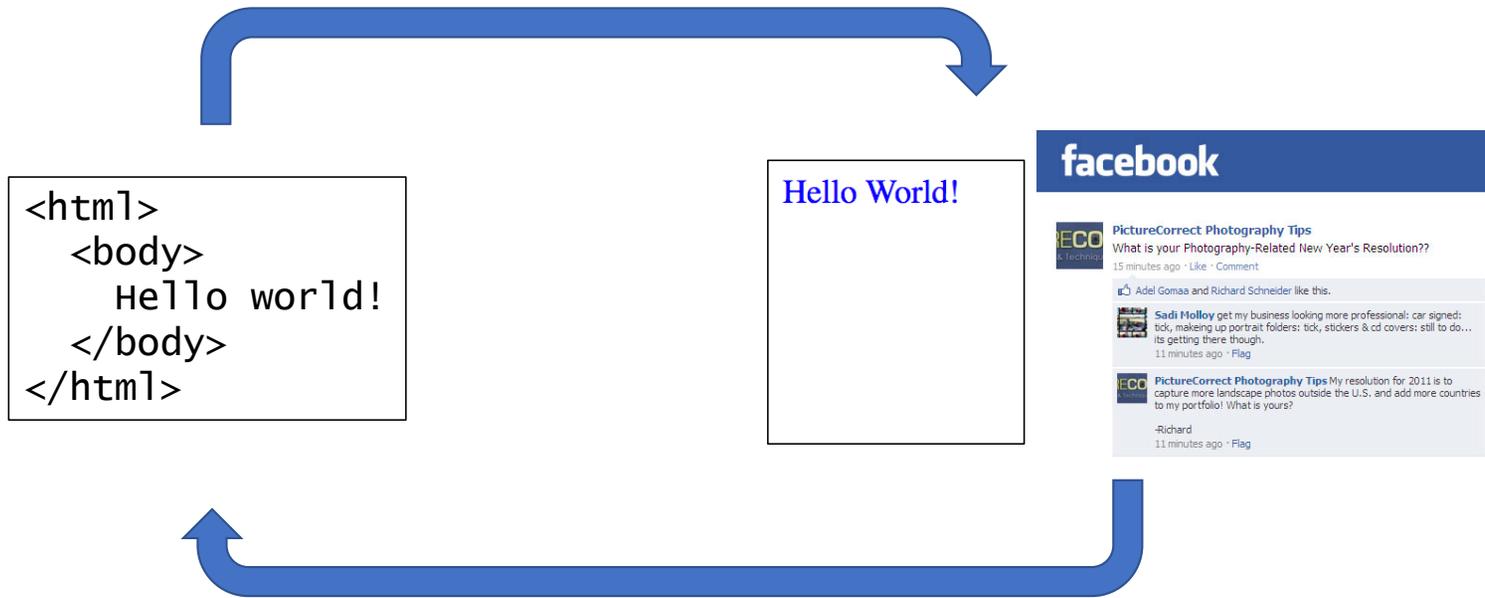
PictureCorrect Photography Tips My resolution for 2011 is to capture more landscape photos outside the U.S. and add more countries to my portfolio! What is yours?

-Richard

11 minutes ago · Flag

Iterative Style of Programming

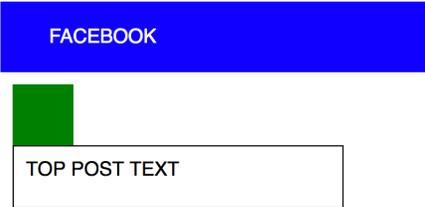
What's the most **basic** thing I can do to make substantial progress towards my goal?



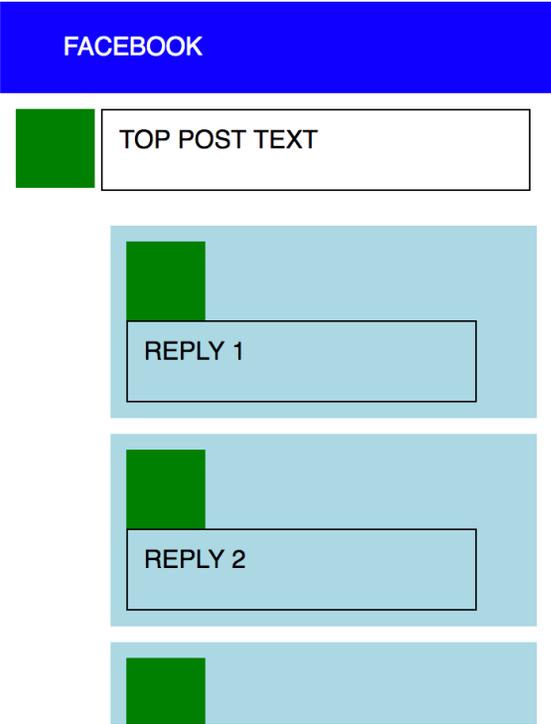
Does it look ok?

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

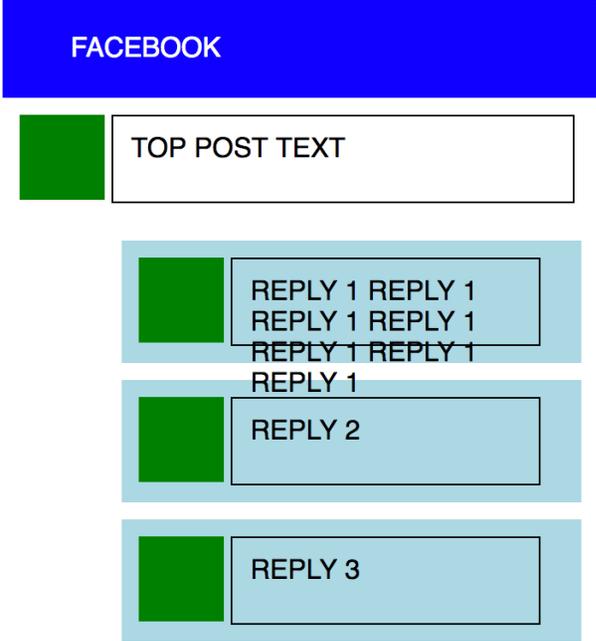
Error 1: display inline-block



Error 2: reply div padding



Error 3: Reply div height



Grids

Currently the dominant way to layout information

Many sites use grids to layout the major sections of information.

The screenshot displays a Gmail interface with a grid layout. At the top, there are navigation elements: 'Mail', a dropdown menu, a refresh button, a 'More' button, and a page indicator '1-14 of 14' with navigation arrows and a settings gear. On the left side, there is a sidebar with a 'COMPOSE' button and a list of folders: 'Inbox (2)', 'Sent Mail', 'Drafts (54)', 'Need to Read', 'Technology Coach', and 'More'. The main area is divided into four tabs: 'Primary', 'Social', 'Promotions', and 'Updates'. Below these tabs is a list of 16 email messages, each with a checkbox, star icon, sender name, subject, and time. The messages include: Baldwin, BPS (2) with subject 'Bioglovin'; Feldmann, Ann with subject 'Fwd: 21st Century Classroom Visit?'; me, Lambert (2) with subject '8th Period'; me with subject '(no subject)'; me, Braasch, Klamm (3) with subject 'Visitation & Observation Request'; me, Cox (2) with subject 'Bri Cox - Coaching Doc'; Tripple, Todd with subject '3D Printer'; donotreply with subject 'Education Preview Build Notice'; Ann Feldmann with subject 'Fwd: [New post] What "Innovative Leadership" Looks Like'; me, Campbell (7) with subject 'Khan Academy Issues'; Toelle, me (3) with subject '6 Word Stories'; me, Evon (4) with subject 'Request to Visit on Thursday AM'; and Jeffrey Bernadt with subject 'Shared from Twitter: What teachers need to know about multicultural educ'. On the right side, there is a 'Search people...' search bar and a list of contacts, including Jed Givens, Ann Feldmann, Ann Feldmann, Cadwallader, Julie, Christopher Kessell, Courtney Saffold, Jeanette Carlson, Johnson, Stephanie, Kelly Bernadt, Loomis, Phillip, Robert Mason, Shannon Gier, Todd Tripple, and Toledo, Julian (Delor...).



Windows 95 Video Guide with Matthew Perry & Jennifer Aniston

216,782 views

2K 48 SHARE



Favorite Videos
Published on Dec 12, 2016

SUBSCRIBE 201K

Watch all about the show Friends in a single playlist - <https://www.youtube.com/playlist?list...>
Subscribe and watch scenes from all seasons of Friends on my channel - <https://www.youtube.com/channel/UCA8V...>

SHOW MORE

Up next

AUTOPLAY



Friends - The One that Goes Behind the Scenes
Favorite Videos
1.8M views



Would I Lie to You? - S11 E08 (NEW WILTY 19th January)
David Mitchell
Recommended for you
New



Actor Replacements That Totally Ruined The Show
Looper
3M views



Inside Matthew Perry's Tragic Real Life Story
Nicki Swift
952K views



Friends - ET On VH1: Behind The Friends Finale
Favorite Videos
1M views



REACT S7 • E19 TEENS REACT TO WINDOWS 95
FBE
12M views



Friends - Ross and Monica's Cousin
Favorite Videos
3.6M views



What's happening?

Sign up

Log in



Featured

Sports

News

Music

Entertainment

Lifestyle

More >

Moments · View all

Isaiah Thomas becomes a meme...
NBA · 2 hours ago



This bot-generated Coachella...
Haha · 3 hours ago



People are going crazy over this...
Business Insider · 5 hours ago



New to Twitter?

Sign up now to get your own personalized timeline!

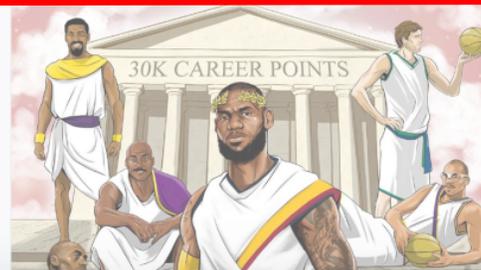
Sign up

Featured Tweets

General News >



Sports commentary >



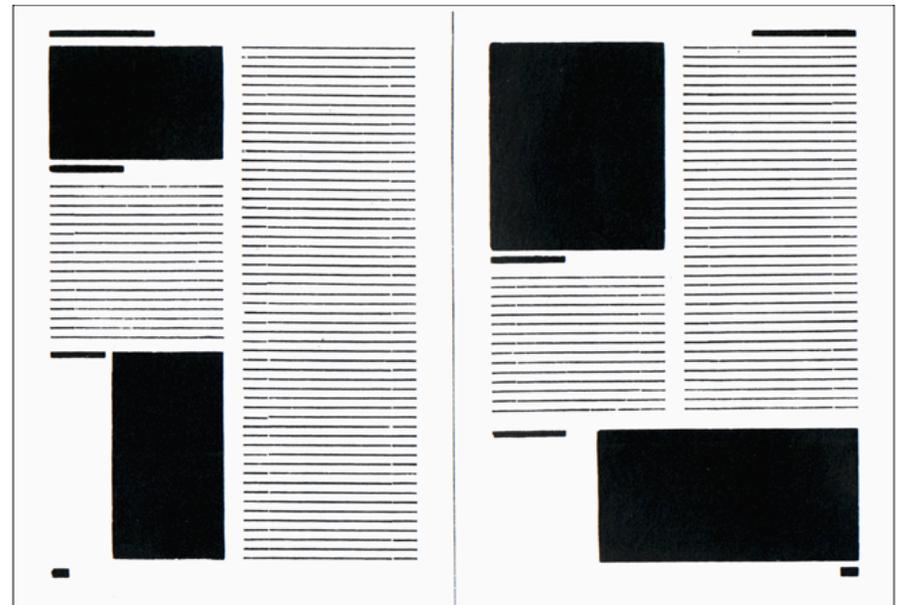
World News >



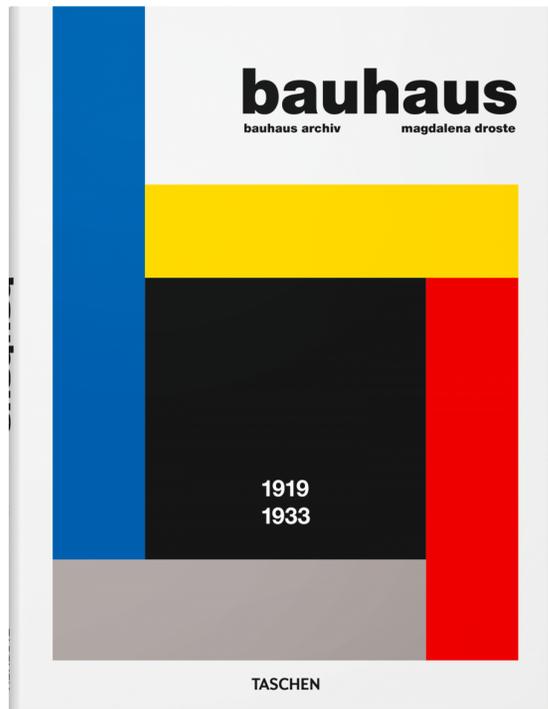
Before:
Symmetric Layout



Now: Grids
Asymmetric Layout



The Bauhaus School of Design



Jan Tschichold: inspired by clean designs of the Bauhaus school

LEIPZIGER
MESSE

Allgemeine Mustermesse mit
Technischer Messe und
Baumesse

Die allgemeine internationale
Messe Deutschlands

Die erste und größte Messe der Welt
Für Aussteller und Einkäufer
gleich wichtig

BEGINN DER HERBSTMESSE AM 27. AUGUST 1922

Auskunft erteilt und Anmeldungen nimmt entgegen

MESSAMT FÜR DIE MUSTERMESSEN
IN LEIPZIG

Vance Hotel
Statesville, N. C.

Grays
"FAMOUS for FOOD"

ways 21, 64, 70
We Never Close



TYPICAL MENU

BREAKFAST 25 cents	LUNCH 35c and 50c	DINNER 50 cents
Fruit or Cereal	Homemade Vegetable Soup Tomato Broth	Tomato Juice
One Egg, Any Style	Lettuce and Tomato Salad	Homemade Vegetable Soup
One Piece Bacon or Sausage	Baked Virginia Ham	Cream of Green Pea Soup
Jelly	Fried Salmon Trout and Cole Slaw	Country Style Steak
Hominy Grits	Boston Brown Potatoes	Broiled Lamb Chops
Buttered or Dry Toast	Green Beans	Baked Salmon Trout
Coffee Tea Milk	Diced Carrots and Cream	Poached Egg on Toast
Specials from 25c to 75c	Corn Muffins	Hash Brown Potatoes
A La Carte Service at all Times	Assorted Pies	Early June Peas
	Fruit Jello Whipped Cream	Corn Pudding
	Vanilla or Chocolate Ice Cream and Cake	Head Lettuce with Dressing
		Boston Cream Pie
		Vanilla or Chocolate Ice Cream and Cake

Eggs and Omelettes

Scrambled Eggs with English Kipperd 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 TAMALES (Old Fashioned Mexican Maize Chicken Tamale,
Fresh Daily) 90
CREAMED TURKEY DERBY (All White Meat, Served in Toasted
Croûton, 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 Sauté, 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

Ice Cream 40
Parfaits 50
Baked Fresh Rhubarb 50
Sherbet 40

Pastry Specials

Blackbottom Pie 40
Parisian Pastries 40
Rio Rita Cake 40
Rice or Chocolate Pudding 35

BEVERAGES AS LISTED ON A LA CARTE MENU

Sales Tax will be added on all taxable items in accordance with the rulings
issued under the Sales and Use Tax law.
Sorry we cannot be responsible for lost articles.

Friday, January 17, 1947

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.

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.

**Lorem
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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.

Lorem ipsum dolor sit amet

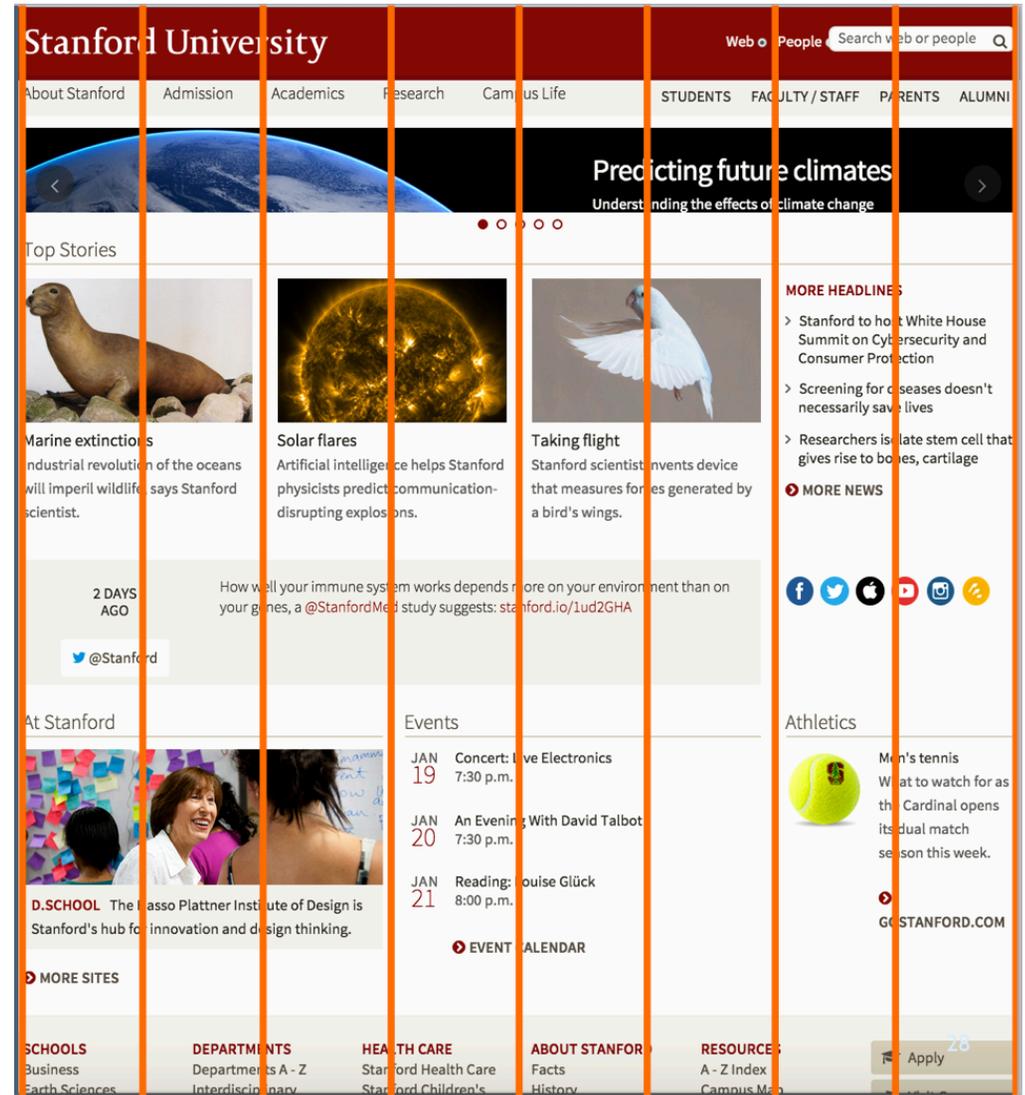
Consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur.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

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.

Basic Architecture of a grid:

- * The grid has columns



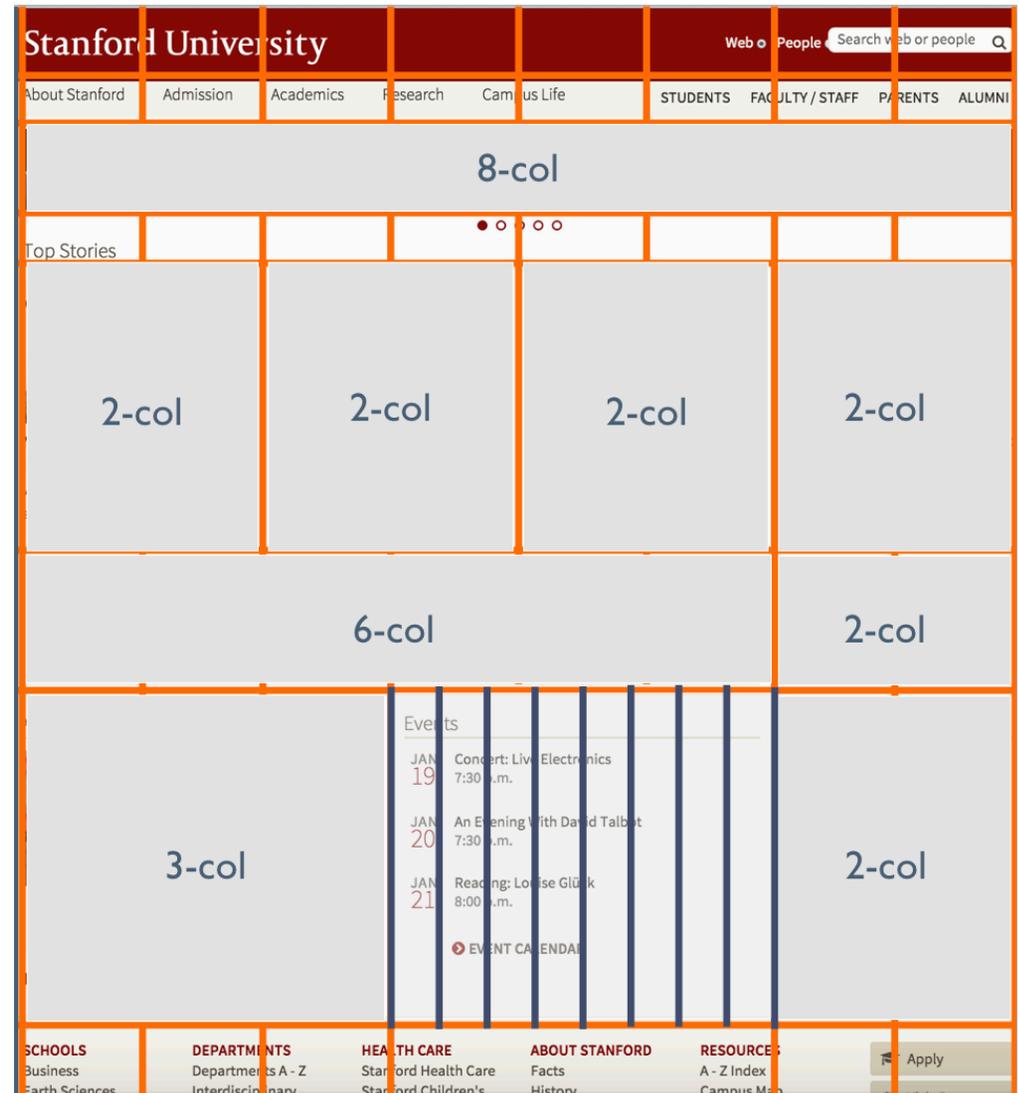
Basic Architecture of a grid:

- * The grid has columns
- * Rows lay out information vertically.
- * Within each row, divs can span multiple columns

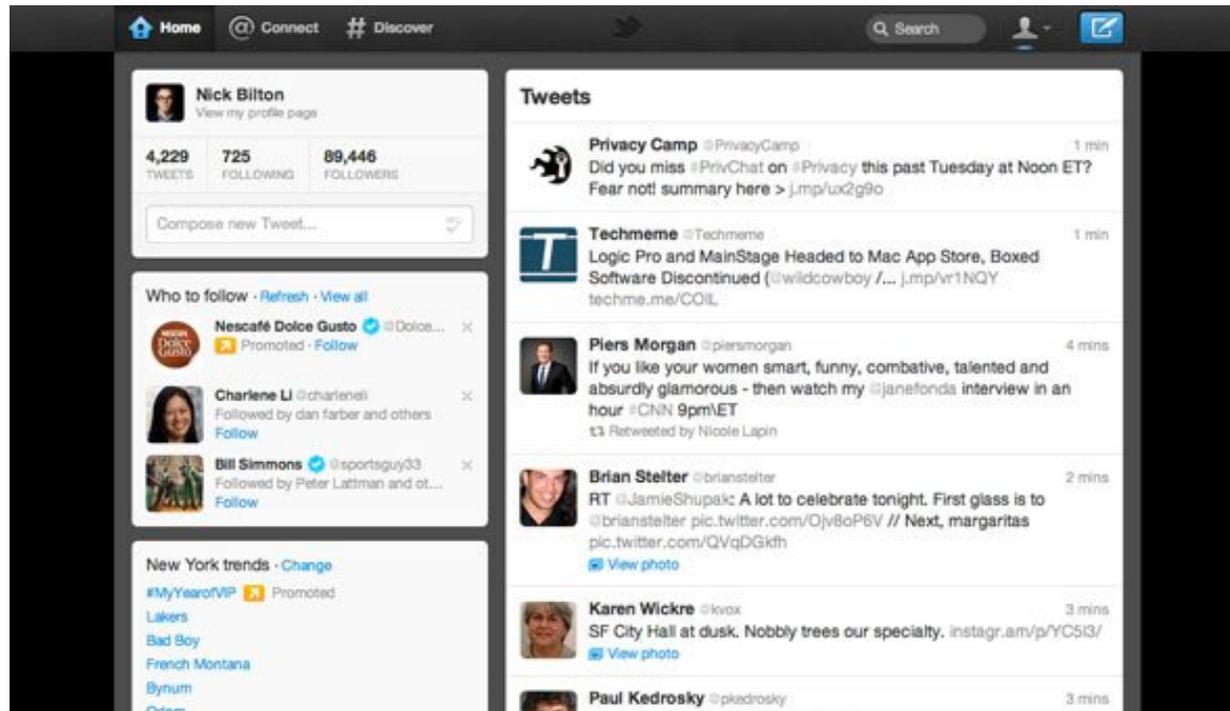


Basic Architecture of a grid:

- The grid has columns
- Rows lay out information vertically.
- Within each row, divs can span multiple columns
- Next grids of 12 columns within a grid.



Implementing Grids on the Web: Twitter Bootstrap

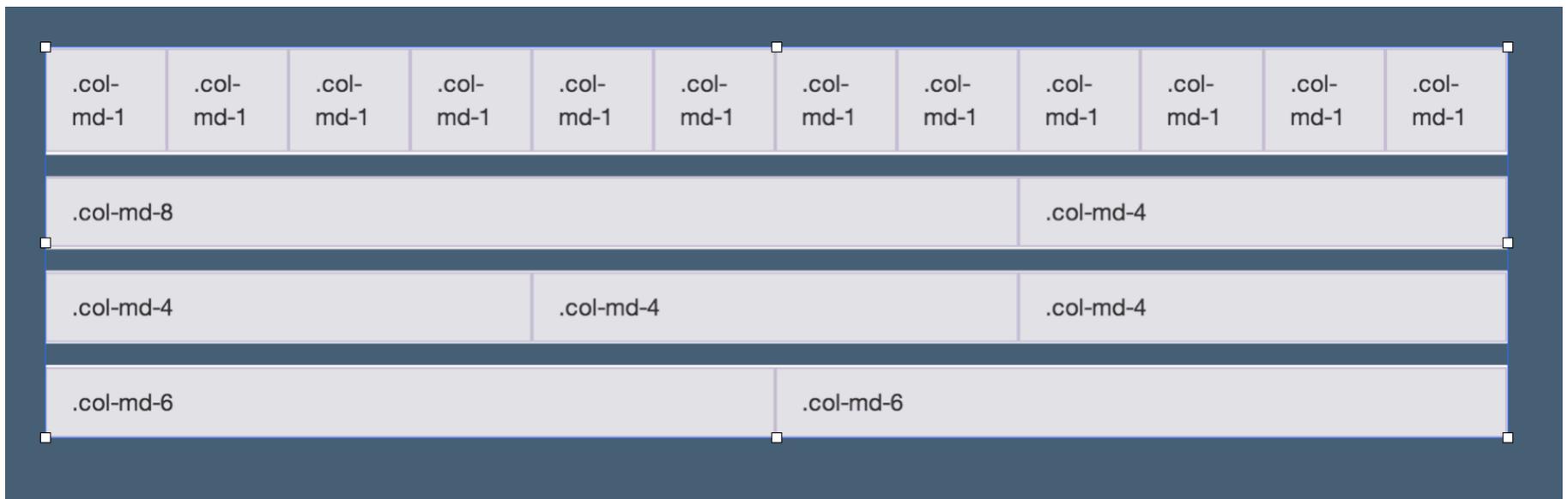


Add Bootstrap to your HTML

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

```
1 <!doctype html>
2 <html>
3   <head>
4     <meta charset="utf-8">
5     <title>Test</title>
6
7     <!-- Add Bootstrap -->
8     <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0-alpha.6/css/bootstrap.min.css" integrity="sha384-A7Zj7v+d/sdmMqp/nOQwliLvUsJfDHW-
9     <script src="https://code.jquery.com/jquery-3.1.1.slim.min.js" integrity="sha384-A7FZj7v+d/sdmMqp/nOQwliLvUsJfDHW-
10    <script src="https://cdnjs.cloudflare.com/ajax/libs/tether/1.4.0/js/tether.min.js" integrity="sha384-DztdAPBWPRXSA
11    <script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0-alpha.6/js/bootstrap.min.js" integrity="sha384-vBWWz
12
13     <!-- Add our own CSS and JS -->
14
15     <link href="components/main.css" rel="stylesheet" type="text/css">
16
```

Bootstrap grid. How many columns?



Example

```
<div class="container">
  <div class="row">
    <div class="col-md-3">
      
    </div>
    <div class="col-md-3">
      
    </div>
    <div class="col-md-3">
      
    </div>
    <div class="col-md-3">
      
    </div>
  </div>
</div>
```

HCI

col-md-3

HCI

col-md-3

HCI

col-md-3

HCI

col-md-3

Note: you can omit the number for even distribution.

```
<div class="container">
  <div class="row">
    <div class="col">
      
    </div>
    <div class="col">
      
    </div>
    <div class="col">
      
    </div>
    <div class="col">
      
    </div>
  </div>
</div>
```

Example 2

```
<div class="container">  
  <div class="row">  
    <div class="col-md-2">  
        
    </div>  
    <div class="col-md-2">  
        
    </div>  
    <div class="col-md-4">  
        
    </div>  
    <div class="col-md-4">  
        
    </div>  
  </div>  
</div>
```

HCI

col-md-2

HCI

col-md-2

HCI

col-md-4

HCI

col-md-4

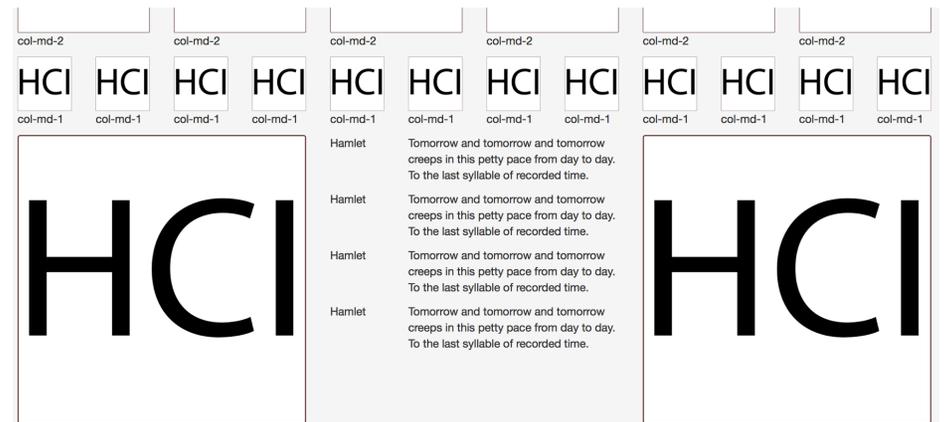
How would you create this?

col-md-2	col-md-2	col-md-2	col-md-2	col-md-2	col-md-2	col-md-2	col-md-2	col-md-2	col-md-2	col-md-2	col-md-2	col-md-2
HCI	HCI	HCI	HCI	HCI	HCI	HCI	HCI	HCI	HCI	HCI	HCI	HCI
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-1
				<p>Hamlet Tomorrow and tomorrow and tomorrow creeps in this petty pace from day to day. To the last syllable of recorded time.</p> <p>Hamlet Tomorrow and tomorrow and tomorrow creeps in this petty pace from day to day. To the last syllable of recorded time.</p> <p>Hamlet Tomorrow and tomorrow and tomorrow creeps in this petty pace from day to day. To the last syllable of recorded time.</p> <p>Hamlet Tomorrow and tomorrow and tomorrow creeps in this petty pace from day to day. To the last syllable of recorded time.</p>								

A nested row

```
<div class="row">
  <div class="col-md-4">
    
  </div>
  <div class="col-md-4">
    <div class="row">
      <div class="col-md-3">
        <p>Hamlet</p>
      </div>
      <div class="col-md-9">
        <p>Tomorrow and tomorrow...</p>
      </div>
    </div>
  <div class="row">
    <div class="col-md-3">
      <p>Hamlet</p>
    </div>
```

...



Responsive Design

Stanford University

Web People Search web or people

About Stanford Admission Academics Research Campus Life STUDENTS FACULTY/STAFF PARENTS ALUMNI

A road to peace
Project to understand conflict in the world's political hotspots may hold the key to finding stability, Stanford scholar says

Top Stories

MORE HEADLINES

- Stanford to host White House Summit on Cybersecurity and

Waiting for stanford.edu...

Stanford University

MENU

A ROAD TO PEACE Project to understand conflict in the world's political hotspots may hold the key to finding stability, Stanford scholar says

Top Stories

MORE HEADLINES

- Stanford to host White House Summit on Cybersecurity and

Waiting for stanford.edu...

Stanford University

MENU

A ROAD TO PEACE Project to understand conflict in the world's political hotspots may hold the key to finding stability, Stanford scholar says

Top Stories

- Marine extinctions**
Industrial revolution of the oceans will imperil wildlife, says Stanford scientist.
- Solar flares**
Artificial intelligence helps Stanford physicists predict communication-

Waiting for stanford.edu...

4 Device sizes

```
/* Extra small devices (less than 768px) */  
@media (max-width: 768px) { #logo { color: yellow; } }
```

Phones

```
/* Small devices (768px and up) */  
@media (min-width: 768px) { #logo { color: red; } }
```

Tablets

```
/* Medium devices (992px and up) */  
@media (min-width: 992px) { #logo { color: blue; } }
```

Laptops

```
/* Large devices (1200px and up) */  
@media (min-width: 1200px) { #logo { color: green; } }
```

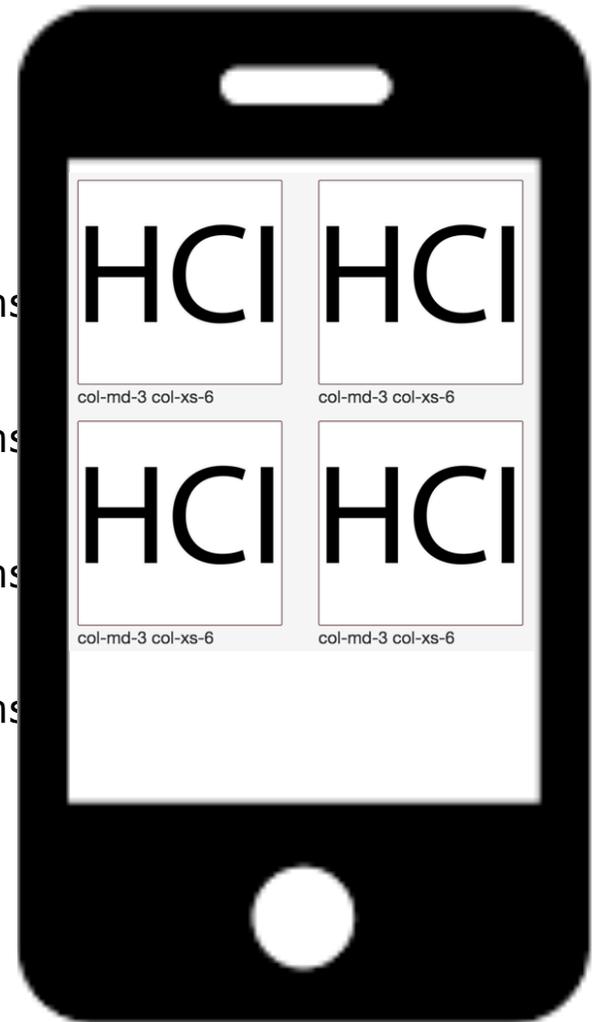
Large desktops

What will this do?

```
<div class="row">  
  <div class="col-md-3 col-xs-6">  
      
  </div>  
  <div class="col-md-3 col-xs-6">  
      
  </div>  
  <div class="col-md-3 col-xs-6">  
      
  </div>  
  <div class="col-md-3 col-xs-6">  
      
  </div>  
</div>
```

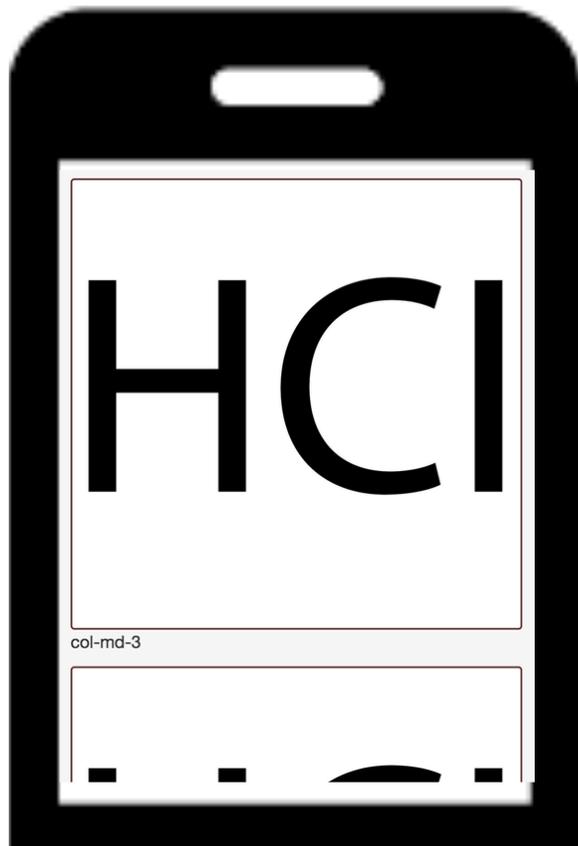
What will this do on a phone?

```
<div class="row">  
  <div class="col-md-3 col-xs-6">  
      
  <div class="col-md-3 col-xs-6">  
      
  <div class="col-md-3 col-xs-6">  
      
  <div class="col-md-3 col-xs-6">  
      
</div>
```

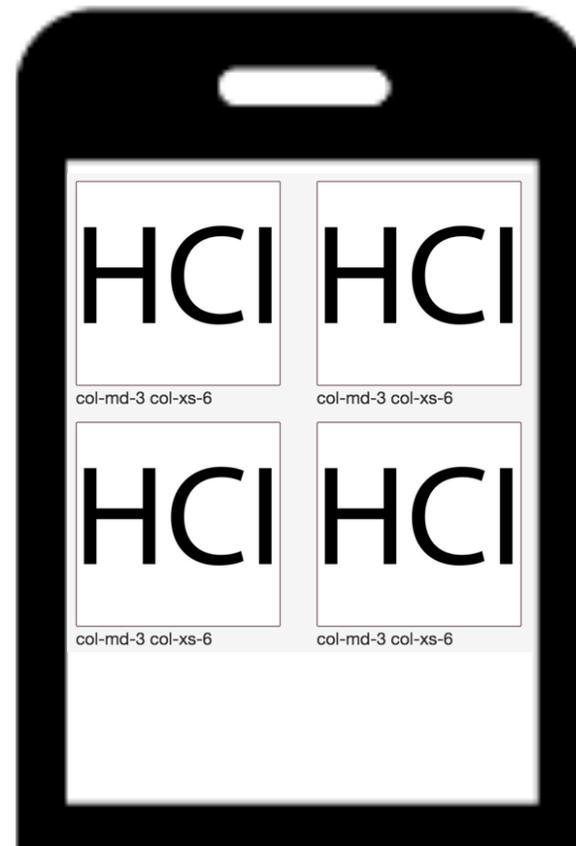


Two examples at xs-screen width

class="col-md-3"



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



In summary...

Iterative Style of Programming

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

Iteration

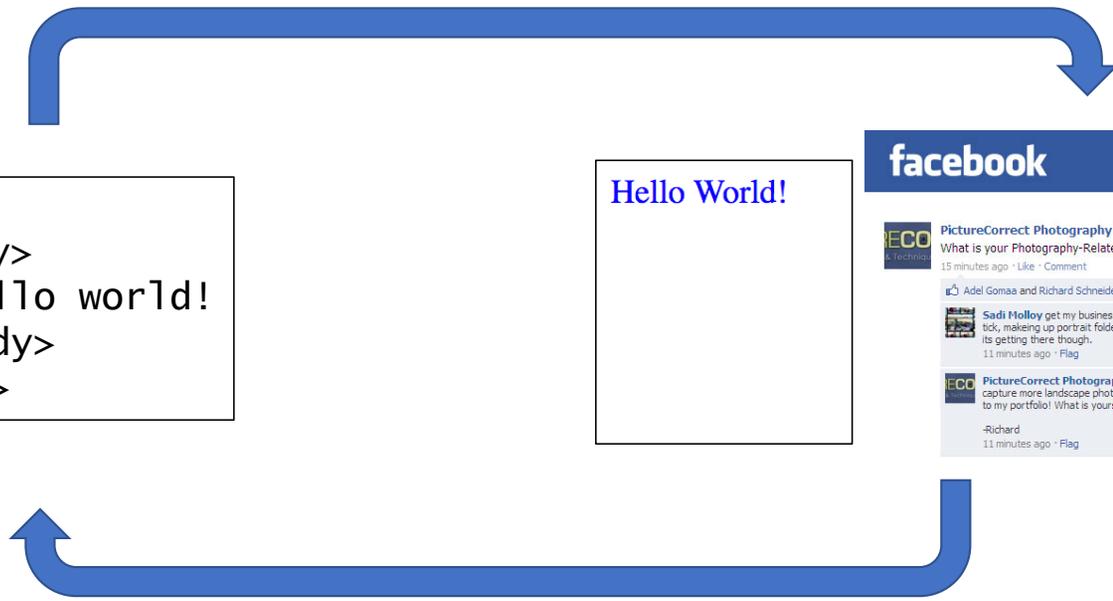
```
<html>
  <body>
    Hello world!
  </body>
</html>
```

Hello World!



Goal

Does it look ok?



Grids are a modern layout architecture that help **indicate importance** through: grouping, size, and location



Announcements

- Assignment 1 due tonight @ 11:59
 - If you are on the waitlist, email me your UNI now (by 5:45) and I will add you to Courseworks as a non-registered students
 - chilton@cs.columbia.edu
 - Check that I have added you by 6pm.
- People who do not turn in Assignment 1 will be dropped
- People who turn in Assignment 1 will be added based on priority