

FLUID LAYOUT WITH BOXES (version 150119)

Your task is to build a fluid layout that contains a set of boxes.

Background

Johnson - our awesome product owner - has closed a million dollar deal with a large secret company.

We - Team Douglas - now need to create a new product that will be used by thousands of visitors. The secret company has left us a new design mockup and rules of how it must be implemented.

The goal is to make the result look as close as possible without sacrificing code quality and usability. The end result will be the base of our new platform, so we really need to invent something that both our customers and developers will find pleasant.

If you feel that some information is missing, or something is counter-intuitive, please use your creative freedom and comment on it. It is important that the result feels smooth to use.

Acceptance criteria

- Create markup that creates 2 containers
- Create/generate markup for 1 initial box

Now for some rules

Items

- Layout
 - Should react responsively to the available width (within reason)
- Container1
 - Should never exceed a width of 960px
 - Should be filled with a background image of your choice
- Container2
 - Should never exceed a width of 860px
 - Should have a gray background
- Rows
 - The 1st row should contain 3 boxes (1/3)
 - The 2nd row should contain 2 boxes (1/2)
 - The 3rd row should contain 1 box (1/1)
 - After row 3, it starts over again with 3 boxes
- Boxes
 - A box has a header and a content area
 - A box has a unique id number in the header

- A box displays its neighboring boxes' id numbers in its content area ("neighboring" being defined as horizontally adjacent)
- Box background
 - The 2nd (2 mod 4) box should have a red background
 - The 3rd (3 mod 4) box should have a green background
 - The 4th (4 mod 4) box should have a blue background
 - Start over
- Last box
 - The last box in the grid should be highlighted

Behavior

- Every time you hover a box
 - The box should show a 5px black border
 - Container1 should show a 10px black border
 - Container2 should show a 15px black border
- Every time you click on a box
 - A new box should be created and inserted directly after the box you just clicked, pushing any trailing existing boxes down and right
 - Container2's background should become progressively darker gray
- Make it possible to delete a box
 - The layout and colors shouldn't break if you delete a box, move the other boxes to fill up the deleted box's space
- Every time you delete a box
 - Container2's background should become progressively lighter gray
 - A friendly message should appear on screen telling which box that was deleted
- Application state
 - Johnson needs a solution where you can close the browser, and then return to the page in the same application state you left it.
- Show some statistics
 - There should exist some user friendly statistics somewhere on the page that keeps track of how many boxes that are currently visible, and how many boxes that have been deleted within the session.

Bonus

- Bonus tasks
 - Browser compatibility. (IE8+)
 - Add a test suite

Mockup

Notes

Boxes have mainly been added by clicking the last box. Box 7 has been removed.

Design

```
=====CONTAINER1=====
|
|
|   =====CONTAINER2=====
|   |
|   |   ROW1
|   |   |-----| |-----| |-----|
|   |   | [1]    x | | [2]    x | | [3]    x |
|   |   |-----| |-----| |-----|
|   |   |      2 | |  1    3 | |  2      |
|   |   |-----| |-----| |-----|
|   |
|   |   ROW2
|   |   |-----| |-----|
|   |   | [4]          x | | [5]          x |
|   |   |-----| |-----|
|   |   |           5 | |  4      |
|   |   |-----| |-----|
|   |
|   |   ROW3
|   |   |-----|
|   |   | [10]                      x |
|   |   |-----|
|   |   |
|   |   |-----|
|   |
|   |   ROW4 (STARTS OVER)
|   |   |-----| |-----| |-----|
|   |   | [6]    x | | [8]    x | | [9]    x |
|   |   |-----| |-----| |-----|
|   |   |      8 | |  6    9 | |  8      |
|   |   |-----| |-----| |-----|
|   |
|   =====
|
=====
```