

The Future of CSS Layout

October 22, 2012

Future of Web Design

by Zoe Mickley Gillenwater

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What I do

Books



Stunning CSS3:
A Project-based Guide to
the Latest in CSS

www.stunningcss3.com



Flexible Web Design:
Creating Liquid and Elastic
Layouts with CSS

www.flexiblewebbook.com

Web

Accessibility
specialist at AT&T

Visual designer

CSS developer
and consultant



the past
table layout

Problems with table layout

- Complicated/bulky markup
- Accessibility problems
- Slower browser rendering
- Rigid designs
- Spacer gifs



the present

float layout

Advantages of floats in layout

- Less HTML than tables
- More flexibility to change layout than tables
- Can change visual order to not match HTML (somewhat)
- Other content aware of floats' presence
- Can use `clear` to get blocks out of the way

Problems with float layout

- Visual location tied to HTML order (somewhat)
- Wrapping/float drop
- Difficulty with containment
- Difficulty with equal-height columns
- No `float:center`


what are the
alternatives



Alternative: display inline-block



* only partial support in IE 7 and 6



I wish my parents
would stop treating
me like I'm **inline**.
Can't they see I'm a
block now?

Use: centered nav bar

```
nav ul {  
    margin: 0;  
    padding: 0;  
    border-bottom: 3px solid #fff;  
    list-style: none;  
    text-align: center; }  
nav li {  
    display: inline-block;  
    vertical-align: bottom;  
    margin: 0 .2em;  
    padding: .3em .5em; ... }
```


Use: centered nav bar



- List horizontally centered
- Links aligned on bottom
- Links have top and bottom padding
- Links can be different heights
- List contains links (see its bottom border)

Alternative: display table-cell



* only in IE 8 and later

How table display works

- Makes boxes act like table equivalents
 - Example: boxes with `display:table-cell` act like `<td>` and sit on same line
- Good for grid-like layouts
- Disadvantage: tied to HTML order

Use: hybrid fixed-fluid layout

```
section {  
    display: table;  
    table-layout: fixed;  
    width: 100%; }  
article {  
    display: table-cell;  
    padding: 10px;  
    vertical-align: top; }  
article.fixed {  
    width: 250px; }
```

Use: hybrid fixed-fluid layout

<p>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</p>	<p>Donec eu libero sit amet quam egestas semper. Aenean ultricies mi vitae est. Mauris placerat eleifend leo. Vestibulum tortor quam, feugiat vitae, ultricies eget, tempor sit amet, ante. Vestibulum tortor quam, feugiat vitae, ultricies eget, tempor sit amet, ante.</p>	<p>Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Vestibulum tortor quam, feugiat vitae, ultricies eget, tempor sit amet, ante. Donec eu libero sit amet quam egestas semper. Aenean ultricies mi vitae est. Mauris placerat</p>	
<p>dolor in reprehenderit in voluptate esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in qui officia deserunt mollit anim laborum.</p>	<p>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 vel it esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.</p>	<p>Donec eu libero sit amet quam egestas semper. Aenean ultricies mi vitae est. Mauris placerat eleifend leo. Vestibulum tortor quam, feugiat vitae, ultricies eget, tempor sit amet, ante. Vestibulum tortor quam, feugiat vitae, ultricies eget, tempor sit amet, ante. Donec eu libero sit amet quam egestas semper. Aenean ultricies mi vitae est.</p>	
		<p>Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Vestibulum tortor quam, feugiat vitae, ultricies eget, tempor sit amet, ante. Donec eu libero sit amet quam egestas semper. Aenean ultricies mi vitae est. Mauris placerat eleifend leo. Quisque sit amet est et sapien ullamcorper pharetra. Vestibulum erat wisi, condimentum sed, commodo vitae, ornare sit amet, wisi. Aenean fermentum, elit eget tincidunt condimentum, eros ipsum rutrum orci, sagittis tempus lacus enim ac dui. Donec non enim in turpis pulvinar facilisis.</p>	



the future

a whole bunch of CSS3

CSS3 “content-flow” modules

- **Multi-column Layout:** flow a box’s content into multiple columns in that box
- **Regions:** flow content into multiple, separate boxes
- **Exclusions and Shapes:** make content flow around and within areas in more intricate ways than floating

Grid Template Layout

<http://dev.w3.org/csswg/css3-layout/>



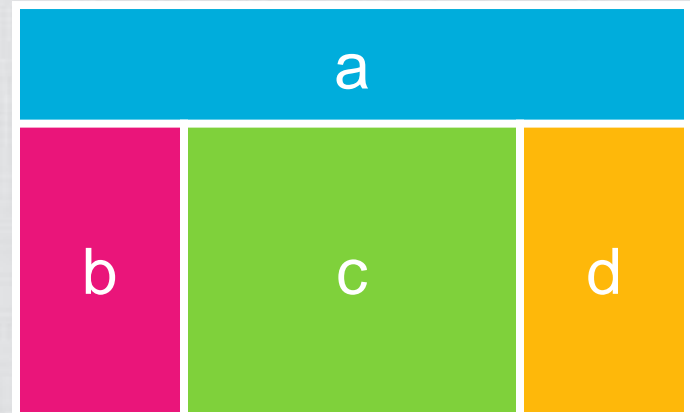
* with -ms- prefix

How grid template works

Define invisible grid of rows and columns and specify which pieces of content go into which “slot”

```
body {  
  grid: "a a a a"  
        "b c c d"  
}
```

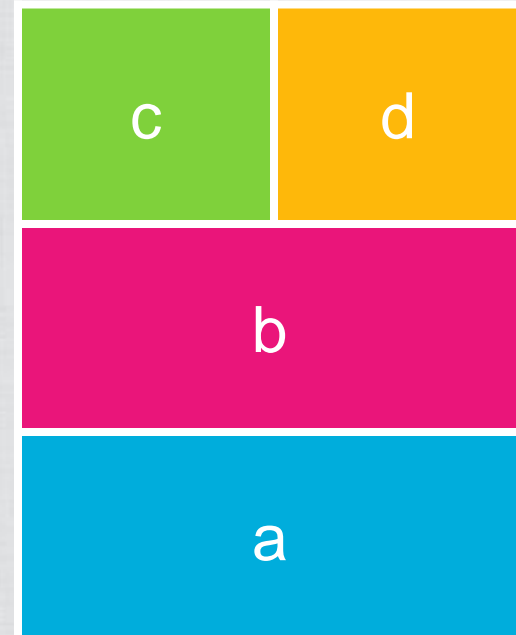
```
nav { flow: a }  
#main { flow: c }  
aside { flow: d }  
#news { flow: b }
```



How grid template works

Define invisible grid of rows and columns and specify which pieces of content go into which “slot”

```
body {  
  grid: "c d"  
        "b b"  
        "a a"  
}  
nav { flow: a }  
#main { flow: c }  
aside { flow: d }  
#news { flow: b }
```



How grid template works

Use `::slot` to style slots with:

- `overflow`
- `margin` properties
- `padding` properties
- `border` properties
- `box-shadow`
- `box-decoration-break`
- `background` properties
- `column` properties
- `vertical-align`
- `writing-mode`
- `direction`

For example:

```
body::slot(c) {  
    background: #7FD13B;  
    vertical-align: top;  
}
```

Flexible Box Layout

www.w3.org/TR/css3-flexbox/



* with -webkit- prefix

† can be switched on in version 18 nightlies

How flexbox works

- Make boxes automatically grow to fill space or shrink to avoid overflow
- Give boxes proportional measurements
- Lay out boxes in any direction
- Align boxes on any side
- Place boxes out of order from HTML

Let's try flexbox out on this page

You deserve a sweet little treat every now and then.

Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Vestibulum tortor quam, feugiat vitae, ultricies eget, tempor sit amet, ante. Donec eu libero sit amet quam egestas semper. Aenean ultricies mi vitae est. Mauris placerat eleifend leo. Quisque sit amet est et sapien

ullamcorper pharetra. Vestibulum erat wisi, condimentum sed, commodo vitae, ornare sit amet, wisi. Aenean fermentum, elit eget tincidunt condimentum, eros ipsum rutrum orci, sagittis tempus lacus enim ac dui. Donec non enim in turpis pulvinar facilisis. Ut felis.

EMAIL NEWSLETTER

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MOTHER'S DAY SPECIAL

Pellen tesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas.

NEWS

[Lorem ipsum dolor sit amet, consectetur adipiscing elit](#)

[Aliquam tincidunt mauris eu risus](#)

[Vestibulum auctor dapibus neque](#)

Read more at our [blog](#) and [follow us on Twitter](#).



Candies

TRUFFLES, BARS, CARAMELS, AND MORE

Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Vestibulum tortor quam, feugiat vitae, ultricies eget, tempor sit amet, ante.



Pastries

CROISSANTS, DANISHES, CREAM PUFFS, AND MORE

Vestibulum tortor quam, feugiat vitae, ultricies eget, tempor sit amet, ante. Donec eu libero sit amet quam egestas semper. Aenean ultricies mi vitae est.



Desserts

CAKES, PIES, TARTS, COOKIES, AND MORE

Donec eu libero sit amet quam egestas semper. Aenean ultricies mi vitae est. Mauris placerat eleifend leo. Vestibulum tortor quam, feugiat vitae, ultricies eget, tempor sit amet, ante.

About this Page

This page is for a fictional site. It was created by [Zoe Mickley Gillenwater](#) as an exercise in the book [Stunning CSS3: A Project-based Guide to the Latest in CSS](#). It uses CSS3 media queries to change the design at different screen sizes; resize your browser window or load it up in a mobile device to check it out.

Credits

WEB FONTS:
Nadia Serif from [Kernest](#)
ILLUSTRATIONS:
Yummy by [Icon Eden](#)

Original CSS



Candies

TRUFFLES, BARS,
CARMELS, AND MORE

Pellentesque habitant
morbi tristique senectus et
netus et malesuada fames
ac turpis egestas.
Vestibulum tortor quam,

feugiat vitae, ultricies eget,
tempor sit amet, ante.



Pastries

CROISSANTS, DANISHES,
CREAM PUFFS, AND MORE

Vestibulum tortor quam,
feugiat vitae, ultricies eget,
tempor sit amet, ante.
Donec eu libero sit amet
quam egestas semper.

Aenean ultricies mi vitae
est.



Desserts

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Donec eu libero sit amet
quam egestas semper.
Aenean ultricies mi vitae
est. Mauris placerat
eleifend leo. Vestibulum
tortor quam, feugiat vitae,
ultricies eget, tempor sit
amet, ante.

```
.feature {  
  float: left;  
  width: 30%;  
  margin: 0 4.5% 0 0;  
  padding: 130px 0 0 0;  
}
```


Create a flex container

```
<div id="features-wrapper">  
  <div class="feature" id="feature-candy">  
    ...</div>  
  <div class="feature" id="feature-pastry">  
    ...</div>  
  <div class="feature" id="feature-dessert">  
    ...</div>  
</div>
```

```
#features-wrapper {  
  display: flex;  
}
```

Make sure to add the
-moz, -ms, and -webkit
prefixed values and
properties in real life!

Specify direction of flex items

```
#features-wrapper {  
  display: flex;  
  flex-direction: row; ← default value  
}
```

Could switch to vertical stacking in mobile/narrow-screen media query:

```
#features-wrapper {  
  display: flex;  
  flex-direction: column;  
}
```


Make flex items flexible

```
.feature {  
  flex: 1 1 0px;  
  margin-right: 40px;  
  padding: 130px 0 0 0; }  
}
```

Make flex items flexible

```
.feature {  
  flex: 1 1 0px;  
  margin-right: 40px;  
  padding: 130px 0 0 0; }  
}
```

flex basis

flex shrink factor

flex grow factor

Same as:

```
.feature {  
  flex: 1;  
  margin-right: 40px;  
  padding: 130px 0 0 0; }  
}
```

Add a fourth feature box

```
<div id="features-wrapper">  
  <div class="feature" id="feature-candy">  
    ...</div>  
  <div class="feature" id="feature-pastry">  
    ...</div>  
  <div class="feature" id="feature-dessert">  
    ...</div>  
  <div class="feature" id="feature-bread">  
    ...</div>  
</div>
```

All boxes adjust in width



Candies

TRUFFLES, BARS,
CARAMELS, AND
MORE

Pellentesque habitant
morbi tristique
senectus et netus et
malesuada fames ac
turpis egestas.
Vestibulum tortor
quam, feugiat vitae,
ultricies eget, tempor
sit amet, ante.



Pastries

CROISSANTS,
DANISHES, CREAM
PUFFS, AND MORE

Vestibulum tortor
quam, feugiat vitae,
ultricies eget, tempor
sit amet, ante. Donec
eu libero sit amet
quam egestas
semper. Aenean
ultricies mi vitae est.



Desserts

CAKES, PIES, TARTS,
COOKIES, AND MORE

Donec eu libero sit
amet quam egestas
semper. Aenean
ultricies mi vitae est.
Mauris placerat
eleifend leo.
Vestibulum tortor
quam, feugiat vitae,
ultricies eget, tempor
sit amet, ante.



Breads

YEAST BREADS,
FLATBREADS, ROLLS,
AND MORE

Lorem ipsum dolor
sit amet, consectetur
adipiscing elit.
Aenean ultricies mi
vitae est. Mauris
placerat eleifend leo.
Vestibulum tortor
quam, feugiat vitae,
ultricies eget, tempor
sit amet, ante.

Don't need to do this anymore

```
.2up .feature { width: 45%; ... }  
.3up .feature { width: 30%; ... }  
.4up .feature { width: 22%; ... }
```


Highlight a sale category

```
.sale {  
  padding: 130px 20px 20px 20px;  
  border-radius: 3px;  
  background-color: hsla(0,0%,100%,.4);  
}
```

What percentage width would I set to make this twice as wide as other boxes, if I weren't using flex?

Make sale box twice as wide



Candies

TRUFFLES,
BARS,
CARAMELS,
AND MORE

Pellentesque
habitant morbi
tristique
senectus et
netus et



Pastries

CROISSANTS, DANISHES,
CREAM PUFFS, AND MORE

Vestibulum tortor quam, feugiat
vitae, ultricies eget, tempor sit
amet, ante. Donec eu libero sit
amet quam egestas semper.
Aenean ultricies mi vitae est.



Desserts

CAKES, PIES,
TARTS,
COOKIES, AND
MORE

Donec eu libero
sit amet quam
egestas semper.
Aenean ultricies
mi vitae est.



Breads

YEAST BREADS,
FLATBREADS,
ROLLS, AND
MORE

Lorem ipsum
dolor sit amet,
consectetuer
adipiscing elit.
Aenean ultricies

```
.sale {  
  flex: 2;  
  padding: 130px 20px 20px 20px;  
  border-radius: 3px;  
  background-color: hsla(0, 0%, 100%, .4);  
}
```

Default equal-height columns!

```
#features-wrapper {  
  display: flex;  
  align-items: stretch;  
}
```

This is the default value, so we don't need to actually set this property, but this shows you what it looks like.

Vertical centering with ease!



Candies

TRUFFLES,
BARS,
CARMELS,
AND MORE

Pellentesque
habitant morbi
tristique
senectus et
netus et
malesuada
fames ac turpis
egestas.



Pastries

CROISSANTS, DANISHES,
CREAM PUFFS, AND MORE

Vestibulum tortor quam, feugiat
vitae, ultricies eget, tempor sit
amet, ante. Donec eu libero sit
amet quam egestas semper.
Aenean ultricies mi vitae est.



Desserts

CAKES, PIES,
TARTS,
COOKIES, AND
MORE

Donec eu libero
sit amet quam
egestas semper.
Aenean ultricies
mi vitae est.
Mauris placerat
eleifend leo.
Vestibulum
tortor quam,
feugiat vitae,
ultricies eget,
tempor sit amet,
ante.



Breads

YEAST BREADS,
FLATBREADS,
ROLLS, AND
MORE

Lorem ipsum
dolor sit amet,
consectetur
adipiscing elit.
Aenean ultricies
mi vitae est.
Mauris placerat
eleifend leo.

```
#features-wrapper {  
  display: flex;  
  align-items: center;  
}
```


Visual order = HTML order



Candies

TRUFFLES,
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AND MORE

Pellentesque
habitant morbi
tristique
senectus et
netus et
malesuada
fames ac turpis
egestas.
Vestibulum
tortor quam,
feugiat vitae,
ultricies eget,
tempor sit amet,
ante.



Pastries

CROISSANTS, DANISHES,
CREAM PUFFS, AND MORE

Vestibulum tortor quam, feugiat
vitae, ultricies eget, tempor sit
amet, ante. Donec eu libero sit
amet quam egestas semper.
Aenean ultricies mi vitae est.



Desserts

CAKES, PIES,
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MORE

Donec eu libero
sit amet quam
egestas semper.
Aenean ultricies
mi vitae est.
Mauris placerat
eleifend leo.
Vestibulum
tortor quam,
feugiat vitae,
ultricies eget,
tempor sit amet,
ante.



Breads

YEAST BREADS,
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ROLLS, AND
MORE

Lorem ipsum
dolor sit amet,
consectetuer
adipiscing elit.
Aenean ultricies
mi vitae est.
Mauris placerat
eleifend leo.
Vestibulum
tortor quam,
feugiat vitae,
ultricies eget,
tempor sit amet,
ante.

Move sale box to front of line

```
.sale {  
  order: -1;  
  flex: 2;  
  padding: 130px 20px 20px 20px;  
  border-radius: 3px;  
  background-color: hsla(0,0%,100%,.4);  
}
```

Default **order** value is 0 for all flex items, so
-1 moves this one before others

New visual order, same HTML



Pastries

CROISSANTS, DANISHES,
CREAM PUFFS, AND MORE

Vestibulum tortor quam, feugiat
vitae, ultricies eget, tempor sit
amet, ante. Donec eu libero sit
amet quam egestas semper.
Aenean ultricies mi vitae est.



Candies

TRUFFLES,
BARS,
CARAMELS,
AND MORE

Pellentesque
habitant morbi
tristique
senectus et
netus et
malesuada
fames ac turpis
egestas.
Vestibulum
tortor quam,
feugiat vitae,
ultricies eget,
tempor sit amet,
ante.



Desserts

CAKES, PIES,
TARTS,
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MORE

Donec eu libero
sit amet quam
egestas semper.
Aenean ultricies
mi vitae est.
Mauris placerat
eleifend leo.
Vestibulum
tortor quam,
feugiat vitae,
ultricies eget,
tempor sit amet,
ante.



Breads

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FLATBREADS,
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Lorem ipsum
dolor sit amet,
consectetuer
adipiscing elit.
Aenean ultricies
mi vitae est.
Mauris placerat
eleifend leo.
Vestibulum
tortor quam,
feugiat vitae,
ultricies eget,
tempor sit amet,
ante.

Accessibility implications

- **Pro:** keep content in logical order in HTML instead of structuring HTML to achieve visual layout
- **Con:** focus/tab order won't always match expected order, may jump around seemingly randomly

Columns are too narrow



Pastries

CROISSANTS, DANISHES,
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Vestibulum tortor quam, feugiat
vitae, ultricies eget, tempor sit
amet, ante. Donec eu libero sit
amet quam egestas semper.
Aenean ultricies mi vitae est.



Candies

TRUFFLES,
BARS,
CARAMELS,
AND MORE

Pellentesque
habitant morbi
tristique
senectus et
netus et
malesuada
fames ac turpis
egestas.
Vestibulum
tortor quam,
feugiat vitae,
ultricies eget,
tempor sit amet,
ante.



Desserts

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Donec eu libero
sit amet quam
egestas semper.
Aenean ultricies
mi vitae est.
Mauris placerat
eleifend leo.
Vestibulum
tortor quam,
feugiat vitae,
ultricies eget,
tempor sit amet,
ante.



Breads

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MORE

Lorem ipsum
dolor sit amet,
consectetuer
adipiscing elit.
Aenean ultricies
mi vitae est.
Mauris placerat
eleifend leo.
Vestibulum
tortor quam,
feugiat vitae,
ultricies eget,
tempor sit amet,
ante.

Create multi-line flex container

```
#features-wrapper {  
  display: flex;  
  flex-wrap: wrap;  
}
```

Allow children flex items
to wrap to multiple lines

```
.sale {  
  order: -1;  
  flex: 1 1 100%;  
  margin: 0 0 20px 0;  
  padding: 130px 20px 20px 20px;  
  border-radius: 3px;  
  background-color: hsla(0,0%,100%,.4);  
}
```

Make box fill line

Remove gap to right,
add space below

Flex items can now wrap



Pastries

CROISSANTS, DANISHES, CREAM PUFFS, AND MORE

Vestibulum tortor quam, feugiat vitae, ultricies eget, tempor sit amet, ante. Donec eu libero sit amet quam egestas semper. Aenean ultricies mi vitae est.



Candies

TRUFFLES, BARS, CARAMELS, AND MORE

Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Vestibulum tortor quam, feugiat vitae, ultricies eget, tempor sit amet, ante.



Desserts

CAKES, PIES, TARTS, COOKIES, AND MORE

Donec eu libero sit amet quam egestas semper. Aenean ultricies mi vitae est. Mauris placerat eleifend leo. Vestibulum tortor quam, feugiat vitae, ultricies eget, tempor sit amet, ante.



Breads

YEAST BREADS, FLATBREADS, ROLLS, AND MORE

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Aenean ultricies mi vitae est. Mauris placerat eleifend leo. Vestibulum tortor quam, feugiat vitae, ultricies eget, tempor sit amet, ante.

Change icon position

```
.sale {  
  order: -1;  
  flex: 1 1 100%;  
  margin: 0 0 20px 0;  
  padding: 20px 20px 1px 170px;  
  border-radius: 3px;  
  background-color: hsla(0,0%,100%,.4);  
  background-position: 20px 0;  
}
```

Final layout



Pastries

CROISSANTS, DANISHES, CREAM PUFFS, AND MORE

Vestibulum tortor quam, feugiat vitae, ultricies eget, tempor sit amet, ante.
Donec eu libero sit amet quam egestas semper. Aenean ultricies mi vitae est.



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AND MORE

Pellentesque habitant morbi
tristique senectus et netus et
malesuada fames ac turpis
egestas. Vestibulum tortor
quam, feugiat vitae, ultricies
eget, tempor sit amet, ante.



Desserts

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AND MORE

Donec eu libero sit amet quam
egestas semper. Aenean
ultricies mi vitae est. Mauris
placerat eleifend leo.
Vestibulum tortor quam,
feugiat vitae, ultricies eget,
tempor sit amet, ante.



Breads

YEAST BREADS, FLATBREADS,
ROLLS, AND MORE

Lorem ipsum dolor sit amet,
consectetur adipiscing elit.
Aenean ultricies mi vitae est.
Mauris placerat eleifend leo.
Vestibulum tortor quam,
feugiat vitae, ultricies eget,
tempor sit amet, ante.

use flexbox now for
progressive enhancement



How can I make this form:

- Display on a single line with image
- Vertically centered with image
- Span full-width of container

Order Form

Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Vestibulum tortor quam, feugiat vitae, ultricies eget, tempor sit amet, ante. Donec eu libero sit amet quam egestas semper. Aenean ultricies mi vitae est.



Message for top of cake: [add to cart](#)

Inline-block achieves:

- ✓ Display on a single line with image
- ✓ Vertically centered with image
- ✗ Span full-width of container

Order Form

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 Message for top of cake: [add to cart](#)

Different units make life hard

- Pixels
- Ems
- Some mystery percentage

Order Form

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Message for top of cake:

add to cart

Make the text input flex

```
#order, #order form {  
  display: flex; ← Make outer div and form  
  align-items: center; ← Vertically center kiddos  
#order form {  
  flex: 1; ← Make form take up all  
  space next to image  
#order #message {  
  flex: 1; ← Make text input take up  
  all space in form left  
  min-width: 7em; ← after label and button  
  margin: 0 5px; }  
  But don't let it get crazy-  
  small
```


Use inline-block with flexbox

Order Form

Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Vestibulum tortor quam, feugiat vitae, ultricies eget, tempor sit amet, ante. Donec eu libero sit amet quam egestas semper. Aenean ultricies mi vitae est.



Message for top of cake:

add to cart



Order Form

Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Vestibulum tortor quam, feugiat vitae, ultricies eget, tempor sit amet, ante. Donec eu libero sit amet quam egestas semper. Aenean ultricies mi vitae est.



Message for top of cake:

add to cart



Use inline-block with flexbox

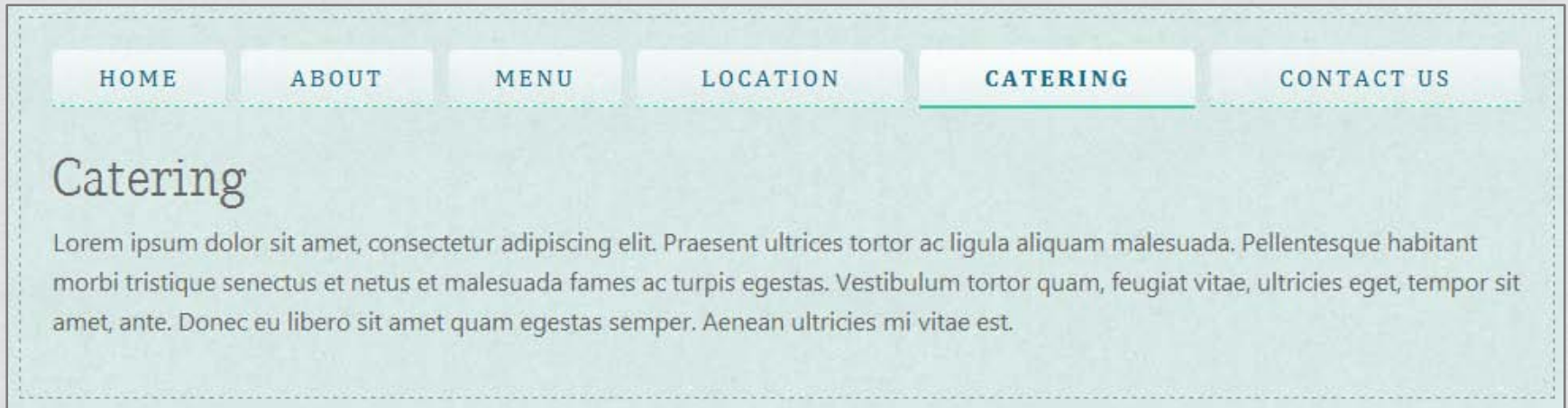
```
#order img, #order form {  
  display: inline-block;  
  vertical-align: middle; }  
}
```

```
#order, #order form {  
  display: flex;  
  align-items: center; }  
}
```

```
#order form {  
  flex: 1; }  
}
```

```
#order #message {  
  flex: 1;  
  min-width: 7em;  
  margin: 0 5px; }  
}
```

Full-width nav bar

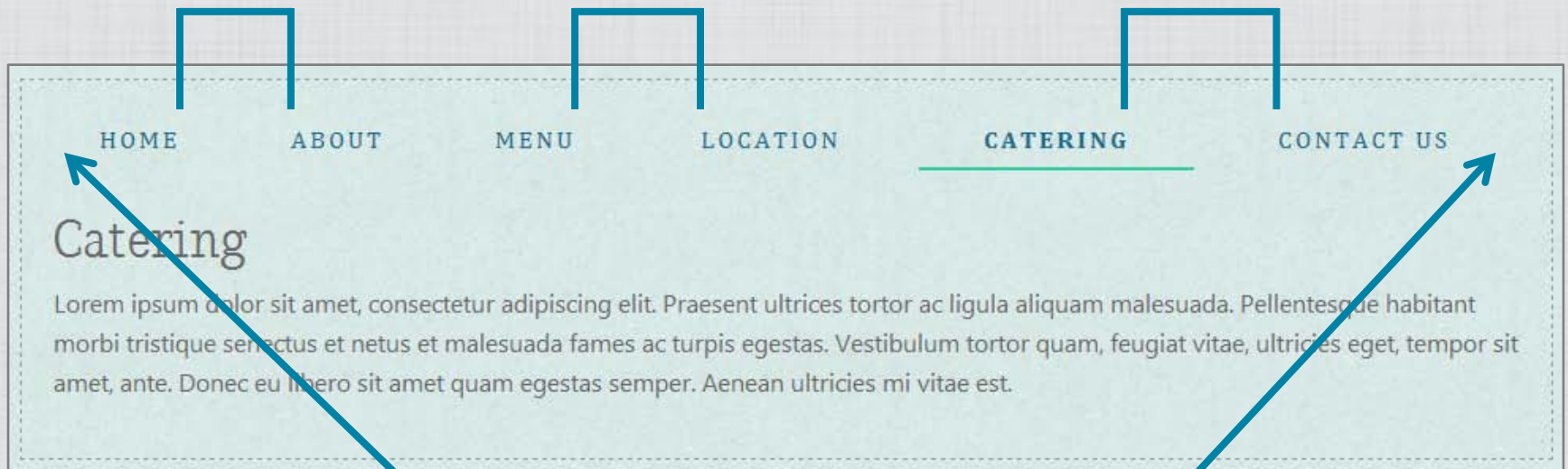


```
nav ul {  
    display: table;  
    width: 100%;  
    margin: 0;  
    padding: 0;  
    list-style: none; }  
}
```

```
nav li {  
    display: table-cell;  
    text-align: center; }  
}
```

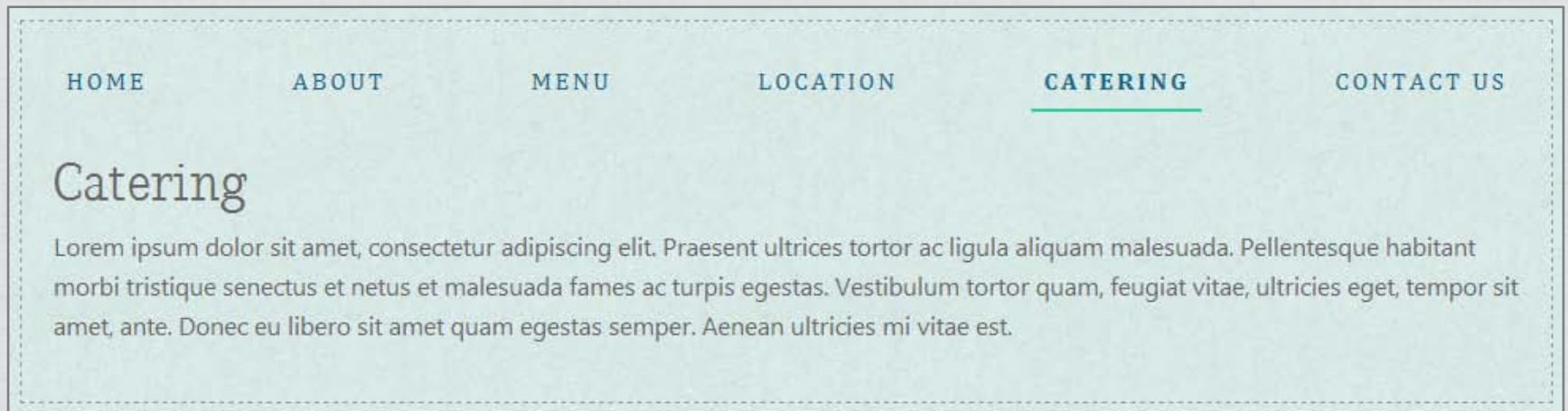
Not so hot with no backgrounds

Uneven spacing



Don't like these gaps

Even spacing with flexbox



```
nav ul {  
    display: flex;  
    justify-content: space-between;  
    margin: 0;  
    padding: 0;  
    list-style: none; }  
}
```

Use inline-block with flexbox

HOME ABOUT MENU LOCATION CATERING CONTACT US

Catering

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Praesent ultrices tortor ac ligula aliquam malesuada. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Vestibulum tortor quam, feugiat vitae, ultricies eget, tempor sit amet, ante. Donec eu libero sit amet quam egestas semper. Aenean ultricies mi vitae est.



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Use inline-block with flexbox

```
nav ul {  
  display: flex;  
  justify-content: space-between;  
  margin: 0;  
  padding: 0;  
  list-style: none;  
  text-align: center;  
}  
nav li {  
  display: inline-block;  
}
```

Or use Modernizr script

<http://modernizr.com>

```
nav ul {  
    display: table;  
    width: 100%;  
    margin: 0;  
    padding: 0;  
    list-style: none;  
}
```

```
.flexbox nav ul {  
    display: flex;  
}
```

```
nav li {  
    display: table-cell;  
}  
.flexbox nav li {  
    display: list-item;  
}
```


go forth and
practice



Learn more

Download slides and get links at
<http://zomigi.com/blog/future-css-layout-fowd>

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