

# Making Things Better

@rachelandrew #aeaden

Redefining the **technical possibilities** of CSS

# “Tableless web design”

The move from tables to CSS for layout meant simplifying our designs.

# MINIMA CLASSIC

MINAMA CLASSIC IS OLD BLOGGER TEMPLATE DESIGN.

WEDNESDAY, JANUARY 23, 2013

## What is Lorem Ipsum Dolor Sit Amet?

Lorem ipsum is a placeholder text (filler text) in publishing and graphic design. It is used to demonstrate the graphics elements of a document, such as font, typography, and layout. The lorem ipsum text is usually a section of a Latin text by Cicero with words altered, added and removed to make it nonsensical. Lorem ipsum text is used in mock-ups of visual design projects before the actual words are put into the finished product. This is often called greeking.

The distribution of letters in lorem ipsum is close to that in English language. This way, you can see what your own text would look like in that graphic format. The most common lorem ipsum text reads as follows: Lorem ipsum dolor sit amet, consectetur adipiscing 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.

POSTED BY HERDIANSYAH HAMZAH AT 5:51 PM 8 COMMENTS



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What we see as good web design is rooted in the **technical limitations of CSS2**

How we see the web is still  
informed by those early  
days.

**“The web is not print”**

**“[I] accepted that CSS is just hacks over top of a document model that was never designed to be used like it is today”**

- Bailey Ling

<http://bling.github.io/blog/2013/04/13/dot-net-slash-wpf-to-html-slash-css-slash-javascript/>



We have solved many of  
**those problems**

That doesn't mean we got all of them!

**You never know how tall  
anything is on the web.**

Nori grape silver beet  
broccoli kombu beet greens  
fava bean potato quandong  
celery. Bunya nuts black-  
eyed pea prairie turnip leek  
lentil turnip greens parsnip.

Nori grape silver beet  
broccoli kombu beet greens  
fava bean potato quandong  
celery.

Nori grape silver beet  
broccoli kombu beet greens  
fava bean potato quandong  
celery.

Nori grape silver beet  
broccoli kombu beet greens  
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celery. Bunya nuts black-  
eyed pea prairie turnip leek  
lentil turnip greens parsnip.

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eyed pea prairie turnip leek  
lentil turnip greens parsnip  
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fava bean potato quandong  
celery. Bunya nuts black-  
eyed pea prairie turnip leek  
lentil turnip greens parsnip..

Nori grape silver beet  
broccoli kombu beet greens  
fava bean potato quandong  
celery.

Nori grape silver beet  
broccoli kombu beet greens  
fava bean potato quandong  
celery.

We hacked round the  
problem

# stretch

---

Default value of align-items.

```
.container {  
  display: flex;  
}
```

**The default behaviour of these methods is the thing we struggled with for so long.**



**How big is this box?**

CSS IS  
AWESOME



@rachelandrew

# Graduating To Grid

<https://aneventapart.com/news/post/graduating-to-grid-by-rachel-andrew-aea-video>



# <length-percentage>

Our previous layout systems rely on everything having a length, or a percentage which resolves to a length.

**“Flexbox is weird!”**

- People on the internet.

Flexbox isn't the layout  
method you **think it is.**

# Flexbox

---

I have a bunch of different sized things to lay out.

CSS IS OK REALLY

CSS PUT MY CAT IN A BOX



CSS IS AWESOME

CSS IS  
OK  
REALLY

CSS PUT MY  
CAT IN A BOX



CSS IS  
AWESOME



Not everything requires a  
**CSS hack.**

CSS may have solved your problem.

**“it just blew my mind that someone thought the default behavior should be to just have the text honk right out of the box, instead of just making the box bigger”**

**Steven Frank** (creator of the meme)

- <https://css-tricks.com/css-is-awesome/#comment-1609829>

# CSS tries to avoid data loss

In CSS terms that would mean making some content vanish.

# Safe & Unsafe alignment

Giving you the choice about prioritizing alignment over potentially vanishing content.

# safe

---

Tells the browser to align start if data loss would occur.

```
.container {  
  display: flex;  
  flex-direction: column;  
  align-items: safe center;  
}
```

# safe

---

Tells the browser to align start if data loss would occur.

One

Two  
Two

Three Three Three

# unsafe

---

I want my specified alignment even if it causes data loss.

```
.container {  
  display: flex;  
  flex-direction: column;  
  align-items: unsafe center;  
}
```

# unsafe

---

I want my specified alignment even if it causes data loss.



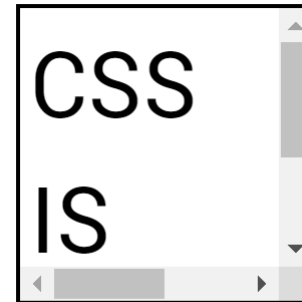


**Overflow happens**

# Overflow

---

Choose your solution



# min-content & max-content

Solving the “content honking out of the box” problem.

# min-content

---

A box that is wide enough for the content, but not wider.

```
.awesome {  
  width: min-content;  
}
```

# min-content

---

A box that is wide enough for the content, but not wider.

CSS IS  
AWESOME

# max-content

---

A box that is as big as the content can be.

```
.awesome {  
  width: max-content;  
}
```

# max-content

---

A box that is as big as the content can be.

CSS IS AWESOME

# break-word

---

Breaking words, making the box taller not wider.

```
.awesome {  
  overflow-wrap: break-word;  
}
```



# break-word

---

Breaking words, making the box  
taller not wider.

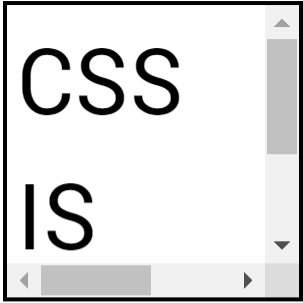
CSS IS  
AWES  
OME

CSS IS  
AWESOME

CSS IS AWESOME

CSS IS  
AWESOME

# Choices!



CSS  
IS

CSS IS  
AWES  
OME

CSS IS  
AWESCO

---

Choose your solution

# vertical

---

CSS being awesome in  
another dimension

CSS IS  
AWESOME

**The web is not left to right**

# Flexbox & Grid

Take an agnostic approach to the writing mode of the document.

# grid-area

---

All four lines at once

```
.item {  
  grid-area: 1 1 4 2;  
}
```

# Floats, positioning, margins, borders, padding

All defined using physical terms – top, left, bottom, right

# Logical Properties & Values

<https://www.w3.org/TR/css-logical-1/>



Nori grape silver  
beet broccoli  
kombu beet greens  
fava bean potato  
quandong celery.  
Bunya nuts black-  
eyed pea prairie  
turnip leek lentil  
turnip greens  
parsnip.

Nori grape silver beet broccoli  
kombu beet greens fava bean  
potato quandong celery.

Nori grape silver beet broccoli kombu beet greens fava  
bean potato quandong celery.



width

# writing-mode

---

Change the writing mode of a document or a component.

```
.container {  
  display: grid;  
  grid-template-columns:  
    100px 100px 300px;  
  grid-gap: 10px;  
  width: 700px;  
  writing-mode: vertical-rl;  
}
```

Nori grape silver  
beet broccoli  
kombu beet greens  
fava bean potato  
quandong celery.  
Bunya nuts black-  
eyed pea prairie  
turnip leek lentil  
turnip greens  
parsnip.

Nori grape silver beet broccoli  
kombu beet greens fava bean  
potato quandong celery.

Nori grape silver beet broccoli kombu beet greens fava  
bean potato quandong celery.

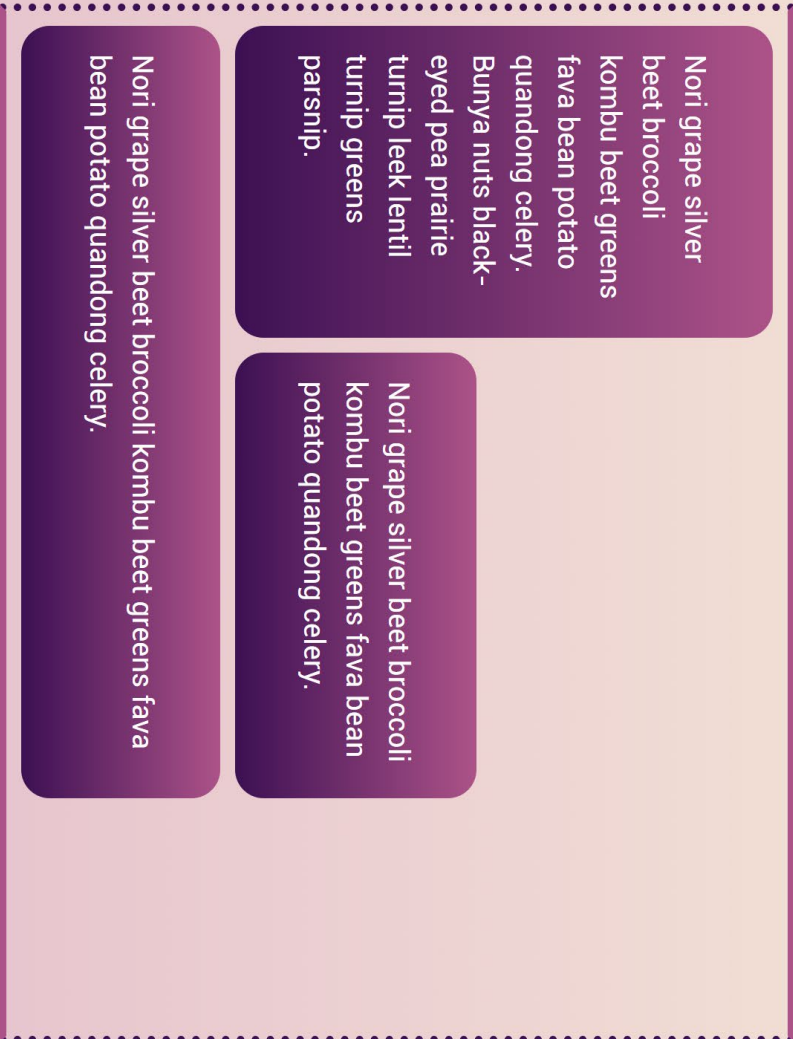
width

# inline-size

---

Maps to **width** when horizontal and  
**height** when vertical

```
.container {  
  display: grid;  
  grid-template-columns:  
    100px 100px 300px;  
  grid-gap: 10px;  
  inline-size: 700px;  
  writing-mode: vertical-rl;  
}
```



inline-size

# inline-size

---

Be awesome in both dimensions  
without changing the code.

```
.awesome {  
  inline-size: min-content;  
}
```

CSS IS  
AWESOME

CSS IS  
AWESOME

# CSS Logical Properties and Values

Languages Edit Settings

Jump to: Reference Guides Specifications Browser compatibility

Web technology for developers > CSS: Cascading Style Sheets > CSS Logical Properties and Values

## Related Topics

### CSS

#### CSS Reference

#### CSS Logical Properties

##### Guides

- Basic concepts of Logical Properties and Values
- Logical properties for floating and positioning
- Logical properties for margins, borders and padding
- Logical properties for sizing

##### Properties

- block-size
- border-block-end
- border-block-end-color
- border-block-end-style
- border-block-end-width

**CSS Logical Properties and Values** is a module of [CSS](#) introducing logical properties and values that provide the ability to control layout through logical, rather than physical, direction and dimension mappings.

The module also defines logical properties and values for properties previously defined in [CSS 2.1](#). Logical properties define direction-relative equivalents of their corresponding physical properties.

## Block vs. inline

Logical properties and values use the abstract terms *block* and *inline* to describe the direction in which they flow. The physical meaning of these terms depends on the [writing mode](#).

### Block dimension

The dimension perpendicular to the flow of text within a line, i.e., the vertical dimension in horizontal writing modes, and the horizontal dimension in vertical writing modes. For standard English text, it is the vertical dimension.

### Inline dimension

The dimension parallel to the flow of text within a line, i.e., the horizontal dimension in horizontal writing modes, and the vertical dimension in vertical writing modes. For standard English text, it is the horizontal dimension.



# Solutions need to include **different writing modes**

We're not in the business of making things better only for a top to bottom, left to right web.

# There is no fold

---

Drew McLellan @media 2007



We know where **the fold is**

# Viewport Units

Representing the height and width of the current viewport

# 100vw

100% of the viewport width

# 100vh

100% of the viewport height

Balloons!



# Viewport Units

---

Two rows plus gap = 100vh

```
.grid {  
  display: grid;  
  grid-gap: 2vh;  
  grid-template-columns:  
    5vw 1fr 1fr 5vw 5vw 1fr 1fr 5vw;  
  grid-template-rows:  
    60vh 38vh 49vh 49vh 49vh 49vh;  
}
```





# CSS Scroll Snap

---

<https://www.w3.org/TR/css-scroll-snap-1/>

```
.grid {  
  display: grid;  
  scroll-snap-type: y mandatory;  
  overflow-y: scroll;  
  height: 100vh;  
}  
  
.a {  
  grid-column: 2 / 5;  
  grid-row: 1 ;  
  scroll-snap-align: start;  
}
```

# **Paged vs Continuous Media**

# Grid & Subgrid

What next for Grid Layout?



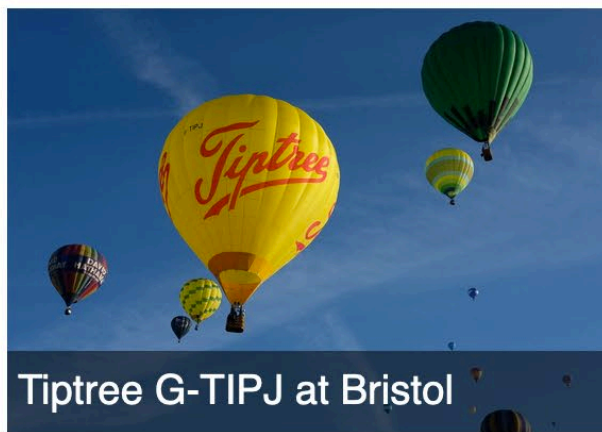
Bristol Balloon Fiesta balloons



Hot air balloon



The G-PURP Balloon



Tiptree G-TIPJ at Bristol



Balloons in Albuquerque



Balloons



Packing a balloon



1

2

3

4

5

-1



Bristol Balloon Fiesta balloons



Hot air balloon



The G-PURP Balloon



Bristol Balloon Fiesta balloons



Tiptree G-TIPJ at Bristol



Balloons in Albuquerque

2

3

1

2

-3

1



Hot air b

2

Bristol Balloon Fiesta balloons

-2

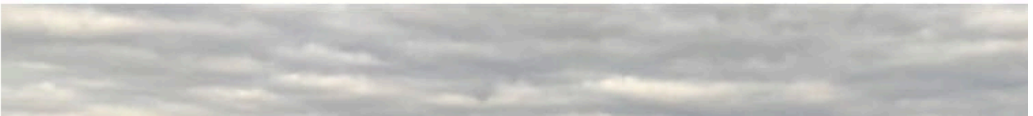
3

-1



Tiptree C

-1



# Nesting grids

---

A grid item can become a grid.

```
.box {  
  display: grid;  
  grid-template-rows: 1fr auto;  
}  
  
.box img {  
  height: 100%;  
  width: 100%;  
  object-fit: cover;  
  grid-row: 1 / 3;  
  grid-column: 1;  
}
```





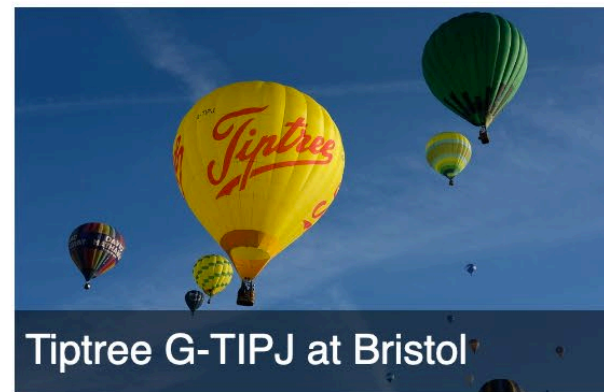
Bristol Balloon Fiesta balloons



Hot air balloon



The G-PURP Balloon at Bristol Balloon Fiesta



Tiptree G-TIPJ at Bristol



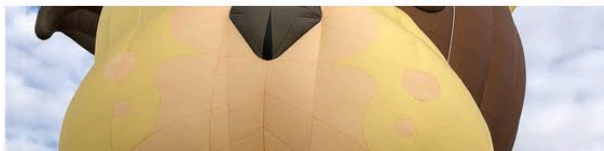
Balloons in Albuquerque



Balloons photographed as we took off from Balloon Fiesta Field



Packing a balloon



**You never know how tall  
anything is on the web.**

# My document

---

A container with two direct children

```
<div class="container">  
  <ul>  
    <li>...</li>  
    <li>...</li>  
    <li>...</li>  
  </ul>  
  <div class="item">...</div>  
</div>
```

Nori grape silver beet broccoli kombu beet greens fava bean potato quandong celery. Bunya nuts black-eyed pea prairie turnip leek lentil turnip greens parsnip.

Nori grape silver beet broccoli kombu beet greens fava bean potato quandong celery.

Nori grape silver beet broccoli kombu beet greens fava bean potato quandong celery.

I am not part of the list and am a direct child of the grid container.

# display: grid

---

Causes direct children to become grid items.

```
.container {  
  display: grid;  
  grid-template-columns:  
    1fr 1fr 1fr;  
  grid-gap: 10px;  
}
```

Nori grape silver beet  
broccoli kombu beet greens  
fava bean potato quandong  
celery. Bunya nuts black-  
eyed pea prairie turnip leek  
lentil turnip greens parsnip.

Nori grape silver beet  
broccoli kombu beet greens  
fava bean potato quandong  
celery.

Nori grape silver beet  
broccoli kombu beet greens  
fava bean potato quandong  
celery.

I am not part of the list and am  
a direct child of the grid  
container.

# display: contents

---

Remove a box from the visual display allowing grandchildren to act like direct children.

```
ul {  
  display: contents;  
}
```

Nori grape silver beet broccoli kombu beet greens fava bean potato quandong celery. Bunya nuts black-eyed pea prairie turnip leek lentil turnip greens parsnip.

Nori grape silver beet broccoli kombu beet greens fava bean potato quandong celery.

Nori grape silver beet broccoli kombu beet greens fava bean potato quandong celery.

I am not part of the list and am a direct child of the grid container.



# subgrid

---

The nested grid should use the tracks defined on the parent.

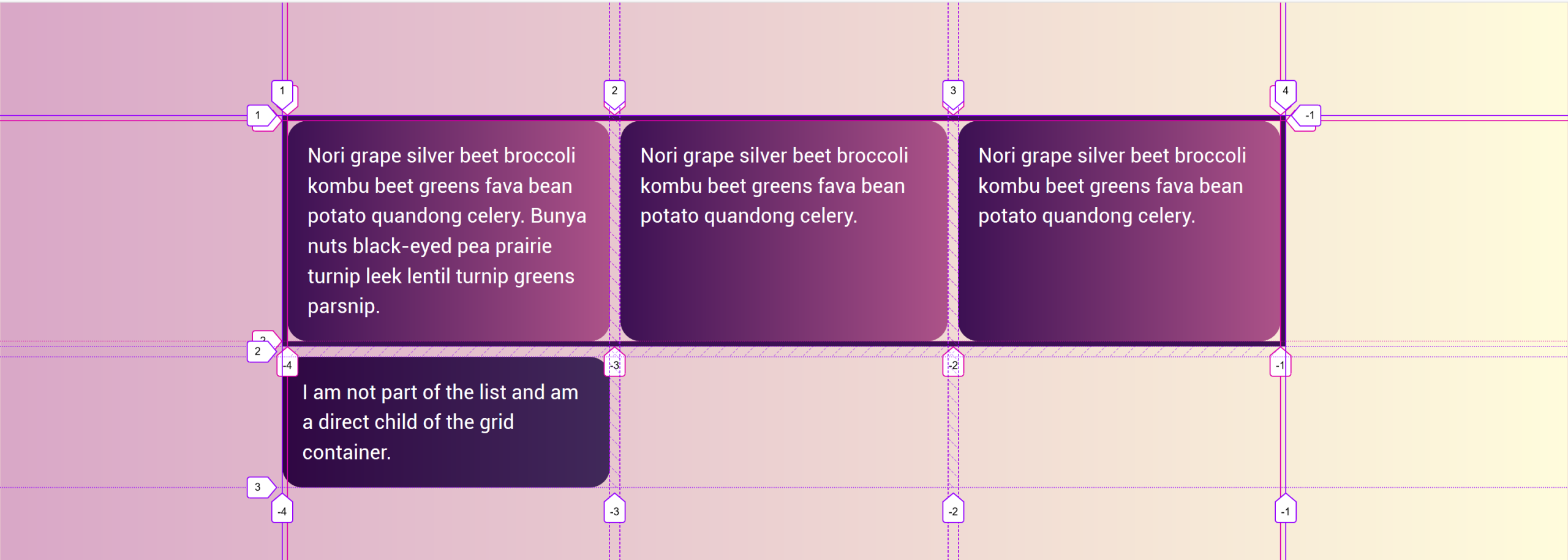
```
ul {  
  grid-column: 1 / -1;  
  display: grid;  
  grid-template-columns: subgrid;  
}
```

Nori grape silver beet broccoli  
kombu beet greens fava bean  
potato quandong celery. Bunya  
nuts black-eyed pea prairie  
turnip leek lentil turnip greens  
parsnip.

Nori grape silver beet broccoli  
kombu beet greens fava bean  
potato quandong celery.

Nori grape silver beet broccoli  
kombu beet greens fava bean  
potato quandong celery.

I am not part of the list and am  
a direct child of the grid  
container.



```
<!DOCTYPE html>
<html lang="en" >
  <div id="saka-gui-root" style="position: absolute; left: 0px; top: 0px; width: 100%; height: 100%; z-index: 2147483647; opacity: 1; pointer-events: none;" >
    <head >
  <body translate="no" >
    <div class="container" >
      <ul >
        <li >
        <li >
        <li >
      </ul >
    </div >
  </body >
</html >
```

Flexbox

Select a Flex container or item to continue.

Grid

Overlay Grid

- div.container
- ul

Grid Display Settings

- Display line numbers
- Display area names
- Extend lines infinitely



# Nested grid

---

.box is a grid item that is also a grid container.

```
.grid {
  display: grid;
  grid-auto-rows: 300px min-
content;
}

.box {
  display: grid;
  grid-row: auto / span 2;
  grid-template-rows: 1fr auto;
}

.box img {
  height: 100%;
  width: 100%;
  object-fit: cover;
  grid-row: 1 / -1;
  grid-column: 1;
}
```

# subgrid

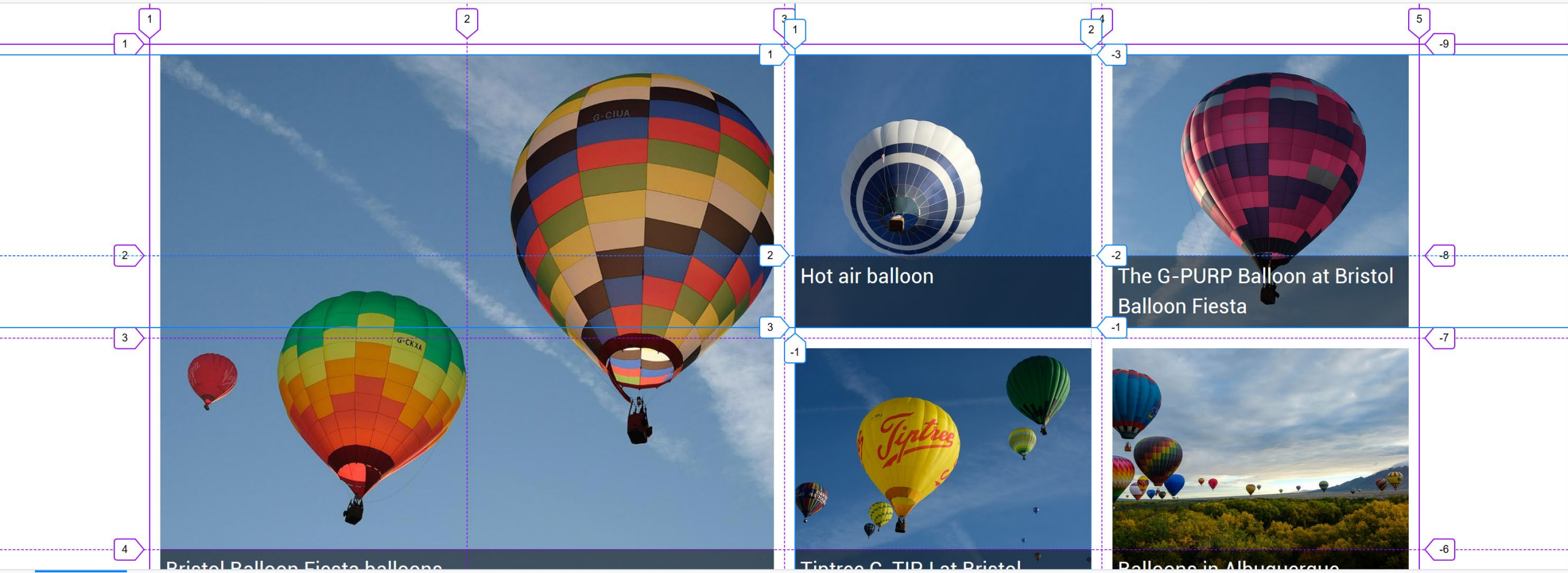
---

.box still has two rows but takes the size from the parent.

```
.grid {  
  display: grid;  
  grid-auto-rows: 300px min-  
content;  
}
```

```
.box {  
  display: grid;  
  grid-row: auto / span 2;  
  grid-template-rows: subgrid;  
}
```

```
.box img {  
  height: 100%;  
  width: 100%;  
  object-fit: cover;  
  grid-row: 1 / -1;  
  grid-column: 1;  
}
```



```
Search HTML
<!DOCTYPE html>
<html lang="en">
  <div id="saka-gui-root" style="position: absolute; left: 0px; top: 0px; width: 100%; height: 100%; z-index: 2147483647; opacity: 1; pointer-events: none;">
    <head>
    </head>
    <body translate="no">
      <article>
        <div class="grid">
          <div class="box a">
          <div class="box b">
          <div class="box c">
          <div class="box d">
```

# Subgrid

Level two of the Grid spec. Shipping in Firefox 71 on **December 10th**.

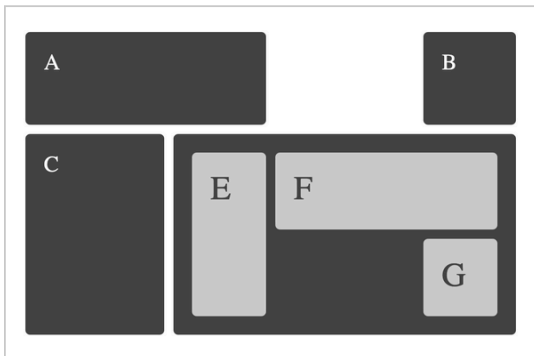


# Subgrid in Chrome?

Star this:

<https://bugs.chromium.org/p/chromium/issues/detail?id=618969>

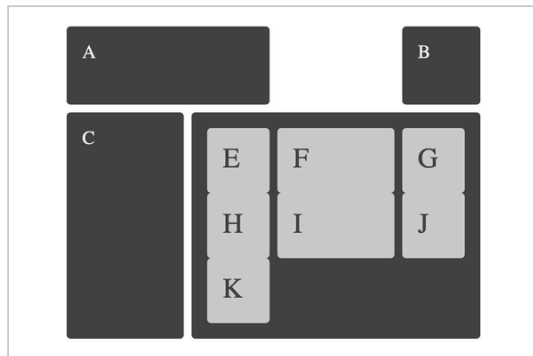
## CSS Grid Level 2 Examples



### Subgrid on columns and rows

The subgrid value is used for grid-template-columns and grid-template-rows

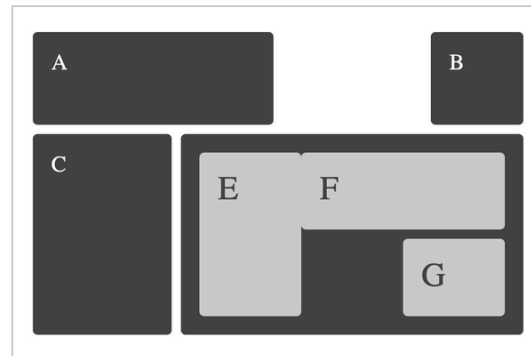
[View example](#) | [Read specification](#)



### Subgrid on columns, implicit grid rows

The subgrid value is used for grid-template-columns. The rows are created as an implicit grid.

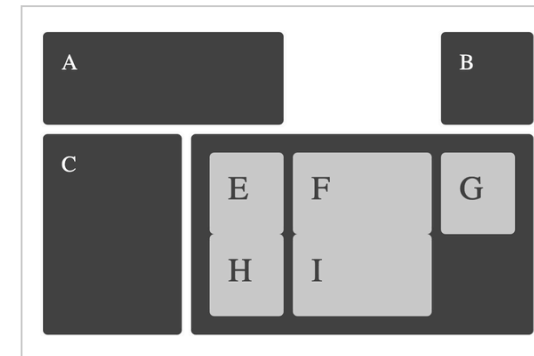
[View example](#) | [Read specification](#)



### Subgrid on rows, defined column tracks

The subgrid value is used for grid-template-rows. The columns are created as a normal track listing.

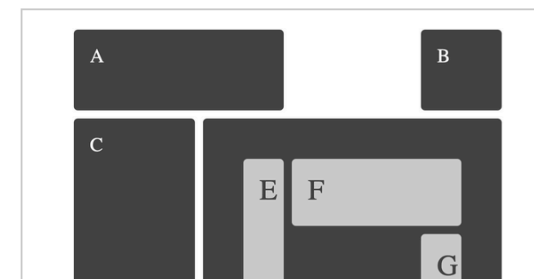
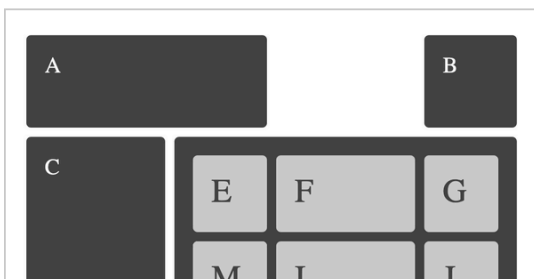
[View example](#) | [Read specification](#)



### The subgrid can override the gap on the parent

The subgrid inherits the gap of the parent but it can be changed in the subgrid.

[View example](#) | [Read specification](#)



**You will hit problems. Find  
new technical limitations.**

**We just can't do that yet.**

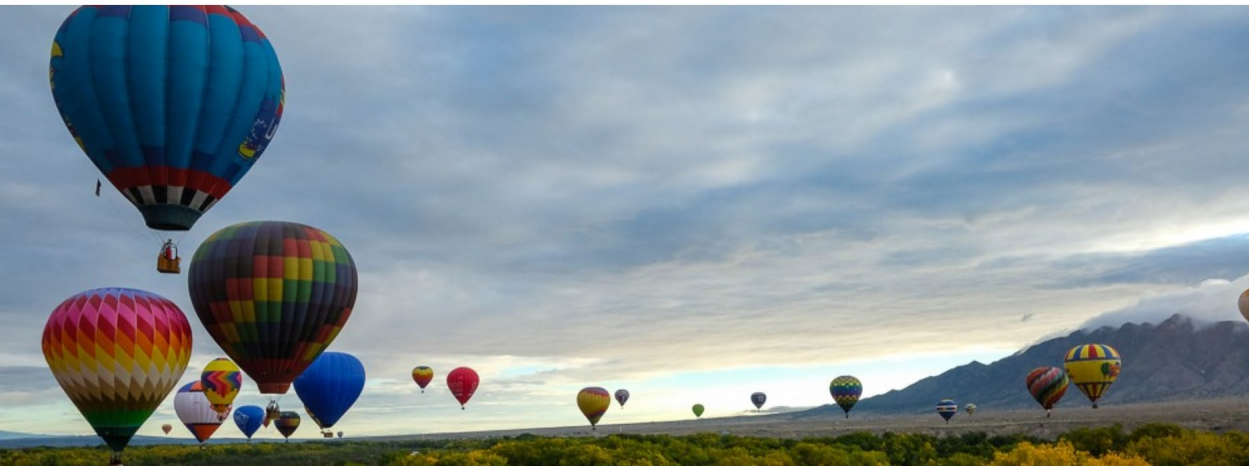
**We get the new stuff when  
we create it.**

**Finding the edges**

# Balloons!

Veggies es bonus vobis, proinde vos postulo  
essum magis kohlrabi welsh onion daikon  
amaranth tatsoi tomatillo melon azuki bean garlic.

Gumbo beet greens corn soko endive gumbo  
gourd. Parsley shallot courgette tatsoi pea sprouts  
fava bean collard greens dandelion okra wakame  
tomato. Dandelion cucumber earthnut pea peanut  
soko zucchini.

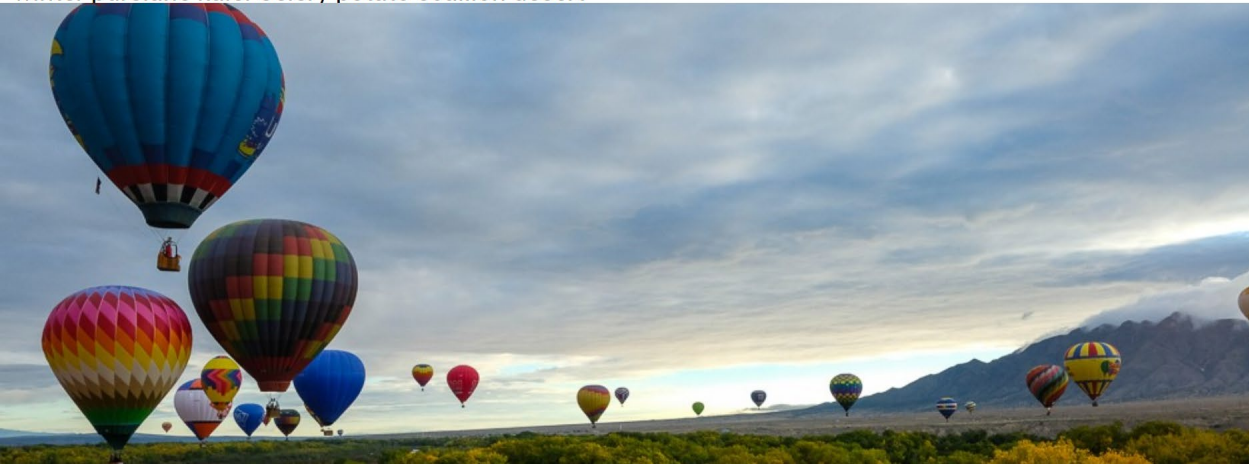


# Balloons!

Veggies es bonus vobis, proinde vos postulo  
essum magis kohlrabi welsh onion daikon  
amaranth tatsoi tomatillo melon azuki bean garlic.

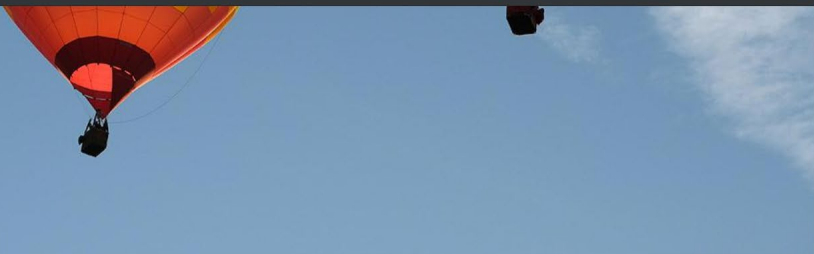
Gumbo beet greens corn soko endive gumbo  
gourd. Parsley shallot courgette tatsoi pea sprouts  
fava bean collard greens dandelion okra wakame  
tomato. Dandelion cucumber earthnut pea peanut  
soko zucchini.

Turnip greens yarrow ricebean rutabaga endive  
cauliflower sea lettuce kohlrabi amaranth water  
spinach avocado daikon napa cabbage asparagus  
winter purslane kale. Celery potato scallion desert





# Balloons!



Veggies es bonus vobis, proinde vos postulo  
essum magis kohlrabi welsh onion daikon  
amaranth tatsoi tomatillo melon azuki bean garlic.

Gumbo beet greens corn soko endive gumbo  
gourd. Parsley shallot courgette tatsoi pea sprouts  
fava bean collard greens dandelion okra wakame  
tomato. Dandelion cucumber earthnut pea peanut  
soko zucchini.

Turnip greens yarrow ricebean rutabaga endive  
cauliflower sea lettuce kohlrabi amaranth water  
spinach avocado daikon napa cabbage asparagus  
winter purslane kale. Celery potato scallion desert  
raisin horseradish spinach carrot soko. Lotus root  
water spinach fennel kombu maize bamboo shoot  
green bean swiss chard seakale pumpkin onion  
chickpea gram corn pea. Brussels sprout coriander  
water chestnut gourd swiss chard wakame  
kohlrabi beetroot carrot watercress. Corn  
amaranth salsify bunya nuts nori azuki bean  
chickweed potato bell pepper artichoke.



You don't know how tall  
things are on the web

# Overflow and Multicol

Veggies es bonus vobis, proinde vos postulo  
essum magis kohlrabi welsh onion daikon  
amaranth tatsoi tomatillo melon azuki bean  
garlic.

Gumbo beet greens corn soko endive gumbo  
gourd. Parsley shallot courgette tatsoi pea  
sprouts fava bean collard greens dandelion  
okra wakame tomato. Dandelion cucumber  
earthnut pea peanut soko zucchini.

Turnip greens yarrow ricebean rutabaga  
endive cauliflower sea lettuce kohlrabi  
amaranth water spinach avocado daikon  
napa cabbage asparagus winter purslane  
kale. Celery potato scallion desert raisin  
horseradish spinach carrot soko. Lotus root  
water spinach fennel kombu maize bamboo  
shoot green bean swiss chard seakale  
pumpkin onion chickpea gram corn pea.  
Brussels sprout coriander water chestnut  
gourd swiss chard wakame kohlrabi beetroot  
carrot watercress. Corn amaranth salsify  
bunya nuts nori azuki bean chickweed  
potato bell pepper artichoke.

Nori grape silver beet broccoli kombu beet  
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Bunya nuts black-eyed pea prairie turnip  
leek lentil turnip greens parsnip. Sea lettuce  
lettuce water chestnut eggplant winter  
purslane fennel azuki bean earthnut pea  
sierra leone bologi leek soko chicory celtuce

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parsley jícama salsify.

Celery quandong swiss chard chicory  
earthnut pea potato. Salsify taro catsear  
garlic gram celery bitterleaf wattle seed  
collard greens nori. Grape wattle seed  
kombu beetroot horseradish carrot squash  
brussels sprout chard.

Pea horseradish azuki bean lettuce avocado  
asparagus okra. Kohlrabi radish okra azuki  
bean corn fava bean mustard tigernut jícama  
green bean celtuce collard greens avocado  
quandong fennel gumbo black-eyed pea.  
Grape silver beet watercress potato tigernut

corn groundnut. Chickweed okra pea winter  
purslane coriander yarrow sweet pepper  
radish garlic brussels sprout groundnut  
summer purslane earthnut pea tomato  
spring onion azuki bean gourd. Gumbo  
kakadu plum komatsuna black-eyed pea  
green bean zucchini gourd winter purslane  
silver beet rock melon radish asparagus  
spinach.

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Turnip greens yarrow ricebean rutabaga endive cauliflower sea lettuce kohlrabi amaranth water spinach avocado daikon napa cabbage asparagus winter purslane kale. Celery potato scallion desert raisin horseradish spinach carrot soko. Lotus root water spinach fennel kombu maize bamboo shoot green bean swiss chard seakale pumpkin onion chickpea gram corn pea. Brussels sprout

Brussels sprout coriander water chestnut gourd swiss chard wakame kohlrabi beetroot carrot watercress. Corn amaranth salsify bunya nuts nori azuki bean chickweed potato bell pepper artichoke.

Nori grape silver beet broccoli kombu beet greens fava bean potato quandong celery. Bunya nuts black-eyed pea prairie turnip leek lentil turnip greens

parsnip. Sea lettuce lettuce water chestnut eggplant winter purslane fennel azuki bean earthnut pea sierra leone bologi leek soko chicory celtuce parsley jícama salsify.

Celery quandong swiss chard chicory earthnut pea potato. Salsify taro catsear garlic gram celery bitterleaf wattle seed collard greens nori. Grape wattle seed kombu beetroot

horseradish carrot squash brussels sprout chard.

Pea horseradish azuki bean lettuce avocado asparagus okra. Kohlrabi radish okra azuki bean corn fava bean mustard tigernut jícama green bean celtuce collard greens avocado quandong fennel gumbo black-eyed pea. Grape silver beet watercress potato tigernut corn groundnut. Chickweed

okra pea winter purslane coriander yarrow sweet pepper radish garlic brussels sprout groundnut summer purslane earthnut pea tomato spring onion azuki bean gourd.

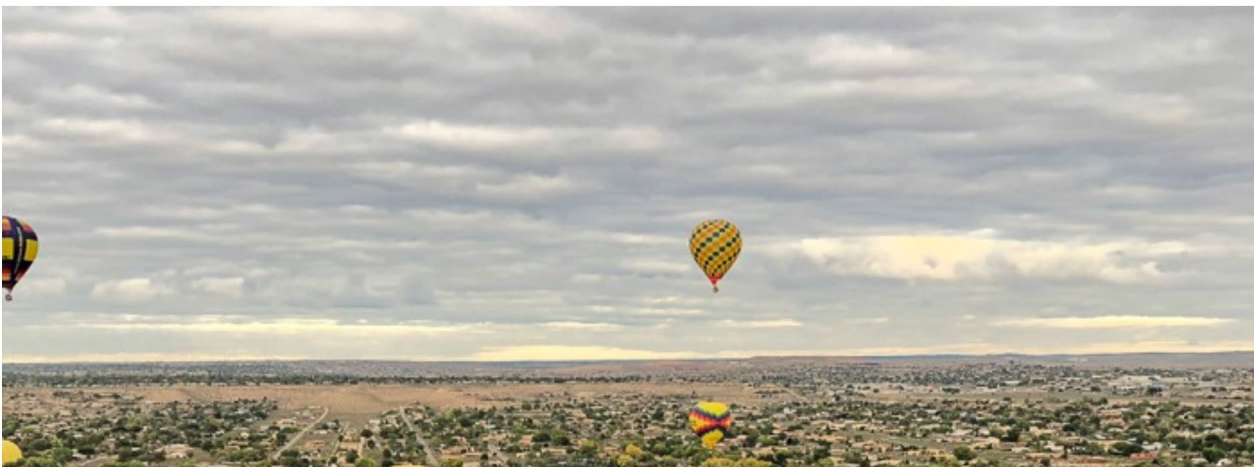
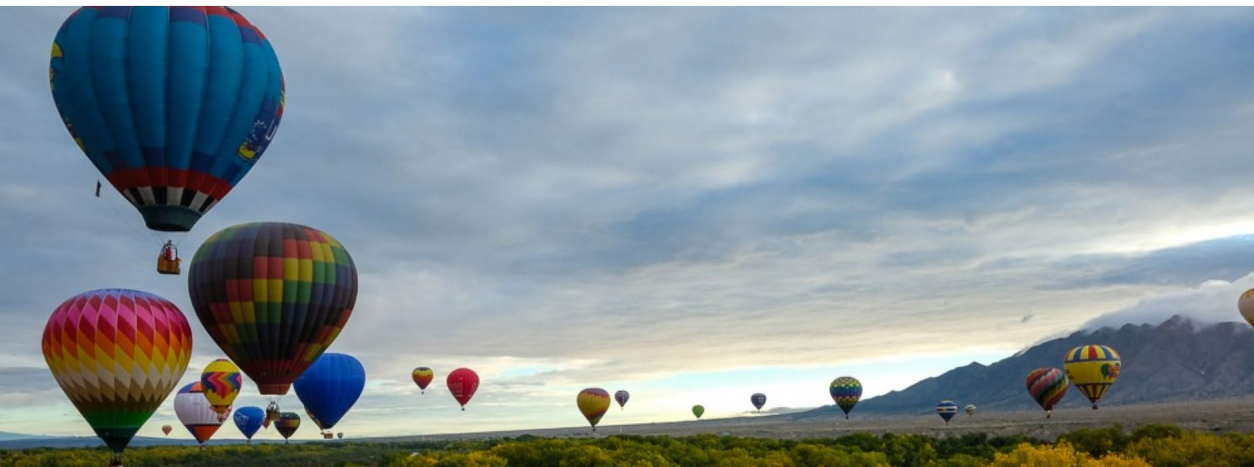
# Overflow in the Block Dimension

Something for Multiple-column Layout level 2?

# Balloons!

Veggies es bonus vobis, proinde vos postulo  
essum magis kohlrabi welsh onion daikon  
amaranth tatsoi tomatillo melon azuki bean garlic.

Gumbo beet greens corn soko endive gumbo  
gourd. Parsley shallot courgette tatsoi pea sprouts  
fava bean collard greens dandelion okra wakame  
tomato. Dandelion cucumber earthnut pea peanut  
soko zucchini.





# My article

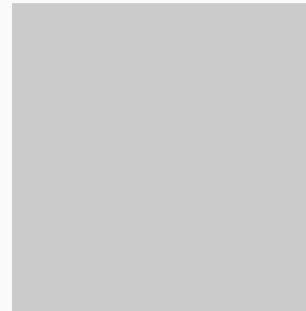
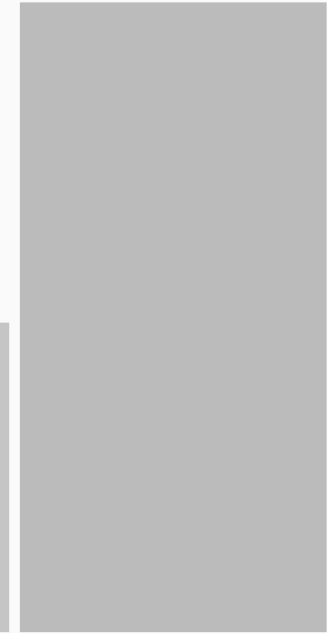
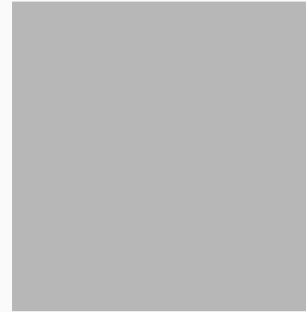
Veggies es bonus vobis, proinde vos postulo  
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amaranth tatsoi tomatillo melon azuki bean  
garlic.

Gumbo beet greens corn soko endive gumbo  
gourd. Parsley shallot courgette tatsoi pea  
sprouts fava bean collard greens dandelion  
okra wakame tomato. Dandelion cucumber  
earthnut pea peanut soko zucchini. Turnip  
greens yarrow ricebean rutabaga endive  
cauliflower sea lettuce kohlrabi amaranth  
water spinach avocado daikon napa cabbage  
asparagus winter purslane kale.

## My article

Veggies es bonus vobis, proinde vos postulo  
essum magis kohlrabi welsh onion daikon  
amaranth tatsoi tomatillo melon azuki bean  
garlic.

Gumbo beet greens corn soko endive gumbo



gourd. Parsley shallot courgette tatsoi pea  
sprouts fava bean collard greens dandelion okra  
wakame tomato. Dandelion cucumber earthnut pea  
peanut soko zucchini. Turnip greens yarrow  
ricebean rutabaga endive cauliflower sea lettuce  
kohlrabi amaranth water spinach avocado daikon  
napa cabbage asparagus winter purslane kale.

# Paged Media

CSS – not just for web browsers.

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# CSS Paged Media Module Level 3

W3C Working Draft, 18 October 2018



### This version:

<https://www.w3.org/TR/2018/WD-css-page-3-20181018/>

### Latest published version:

<https://www.w3.org/TR/css-page-3/>

### Editor's Draft:

<https://drafts.csswg.org/css-page-3/>

### Previous Versions:

<https://www.w3.org/TR/2013/WD-css3-page-20130314/>

### Test Suite:

[http://test.csswg.org/suites/css-page-3\\_dev/nightly-unstable/](http://test.csswg.org/suites/css-page-3_dev/nightly-unstable/)

### Issue Tracking:

[Tracker](#)

[Inline In Spec](#)

[GitHub Issues](#)

### Editors:

[Elika J. Etemad / fantasai](#) (Invited Expert, formerly Mozilla)

[Simon Sapin](#) (Mozilla, formerly Kozea)

### Suggest an Edit for this Spec:

[GitHub Editor](#)

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## Abstract

This CSS module specifies how pages are generated and laid out to hold fragmented content in a paged presentation. It adds functionality for controlling page margins, page size and orientation, and headers and footers, and extends generated content to enable page numbering and running headers / footers. The process of paginating a flow into such generated pages is covered in [\[CSS3-BREAK\]](#).

[CSS](#) is a language for describing the rendering of structured documents (such as HTML and XML) on screen, on paper, etc.

## Status of this document



# Prince 12

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# Pages have defined size

---

All defined in CSS.

```
@page {  
  size: 5.5in 8.5in;  
  margin: 70pt 60pt 70pt;  
}
```

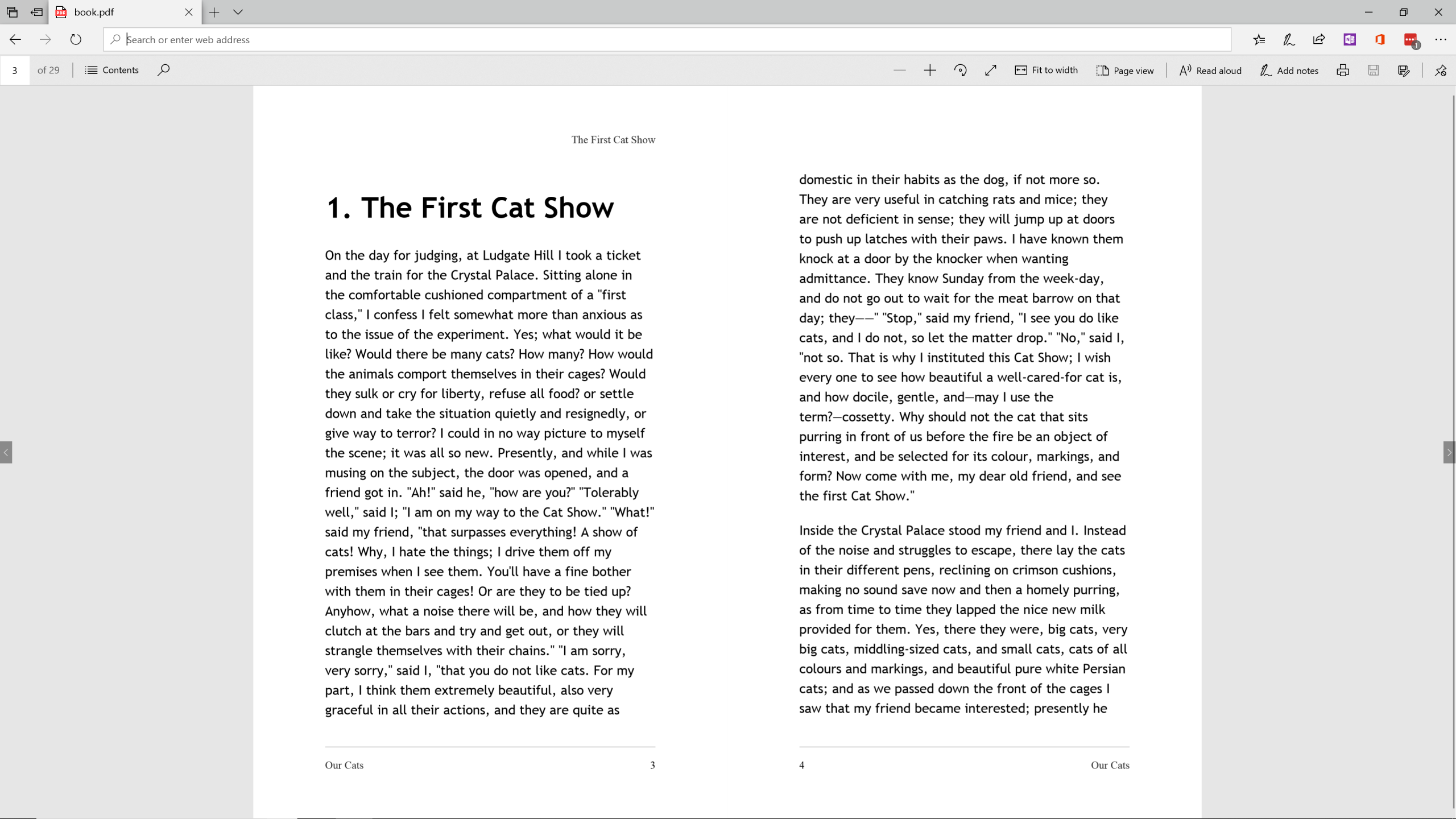
# Margin boxes

---

Content can be added to the margins – page numbers, titles.

```
@page:right{
  @bottom-right {
    margin: 10pt 0 30pt 0;
    border-top: .25pt solid #666;
    content: counter(page);
    font-size: 9pt;
  }

  @top-right {
    content: string(doctitle);
    margin: 30pt 0 10pt 0;
    font-size: 9pt;
    color: #333;
  }
}
```



# 1. The First Cat Show

On the day for judging, at Ludgate Hill I took a ticket and the train for the Crystal Palace. Sitting alone in the comfortable cushioned compartment of a "first class," I confess I felt somewhat more than anxious as to the issue of the experiment. Yes; what would it be like? Would there be many cats? How many? How would the animals comport themselves in their cages? Would they sulk or cry for liberty, refuse all food? or settle down and take the situation quietly and resignedly, or give way to terror? I could in no way picture to myself the scene; it was all so new. Presently, and while I was musing on the subject, the door was opened, and a friend got in. "Ah!" said he, "how are you?" "Tolerably well," said I; "I am on my way to the Cat Show." "What!" said my friend, "that surpasses everything! A show of cats! Why, I hate the things; I drive them off my premises when I see them. You'll have a fine bother with them in their cages! Or are they to be tied up? Anyhow, what a noise there will be, and how they will clutch at the bars and try and get out, or they will strangle themselves with their chains." "I am sorry, very sorry," said I, "that you do not like cats. For my part, I think them extremely beautiful, also very graceful in all their actions, and they are quite as

domestic in their habits as the dog, if not more so. They are very useful in catching rats and mice; they are not deficient in sense; they will jump up at doors to push up latches with their paws. I have known them knock at a door by the knocker when wanting admittance. They know Sunday from the week-day, and do not go out to wait for the meat barrow on that day; they—"Stop," said my friend, "I see you do like cats, and I do not, so let the matter drop." "No," said I, "not so. That is why I instituted this Cat Show; I wish every one to see how beautiful a well-cared-for cat is, and how docile, gentle, and—may I use the term?—cossetty. Why should not the cat that sits purring in front of us before the fire be an object of interest, and be selected for its colour, markings, and form? Now come with me, my dear old friend, and see the first Cat Show."

Inside the Crystal Palace stood my friend and I. Instead of the noise and struggles to escape, there lay the cats in their different pens, reclining on crimson cushions, making no sound save now and then a homely purring, as from time to time they lapped the nice new milk provided for them. Yes, there they were, big cats, very big cats, middling-sized cats, and small cats, cats of all colours and markings, and beautiful pure white Persian cats; and as we passed down the front of the cages I saw that my friend became interested; presently he

# Paged Contexts

Take content and flow it through as many pages as are required to display all of the content.



# CSS Regions

A problematic attempt to flow content through disconnected boxes.

# # CSS Regions WD

Usage % of all users  
 Global 2.78% + 4.8% = 7.57%  
 unprefixed: 0%

Method of flowing content into multiple elements.

Current aligned | Usage relative | Date relative | Apply filters | Show all | ?

IE	Edge *	Firefox	Chrome	Safari	Opera	iOS Safari *	Opera Mini *	Android Browser *	Blackberry Browser	Opera Mobile *	Chrome for Android	Firefox for Android	IE Mobile	UC Browser for Android	Samsu Interr
			4-14												
			15-18 <sup>1 2</sup>	3.1-6		3.2-6.1									
6-9			19-34 <sup>1 2</sup>	6.1-11 <sup>1 2</sup>		7-11.2 <sup>1 2</sup>									
<sup>1 2</sup> 10 <sup>1 2</sup>	<sup>1 2</sup> 12-17 <sup>1 2</sup>	2-62	35-69	11.1	10-55	11.4		2.1-4.4.4	7	12-12.1			<sup>1 2</sup> 10 <sup>1 2</sup>		4-6
<sup>1 2</sup> 11 <sup>1 2</sup>	<sup>1 2</sup> 18 <sup>1 2</sup>	63	70	12	56	12	all	67	10	46	70	63	<sup>1 2</sup> 11 <sup>1 2</sup>	11.8	7.2
		64-65	71-73	TP											

Notes | Known issues (0) | Resources (7) | Feedback

Chrome status: No longer pursuing

- <sup>1</sup> Support is limited to using an iframe as a content source with the `-ms-flow-into: flow_name;` and `-ms-flow-from: flow_name;` syntax.
- <sup>2</sup> Partial support refers to not supporting the `region-fragment` property.

# Balloons!



Veggies es bonus vobis, proinde vos postulo essum magis kohlrabi welsh onion daikon amaranth tatsoi tomatillo melon azuki bean garlic.

Gumbo beet greens corn soko endive gumbo gourd. Parsley shallot courgette tatsoi pea sprouts fava bean collard greens dandelion okra wakame tomato. Dandelion cucumber earthnut pea peanut soko zucchini.

Turnip greens yarrow ricebean rutabaga endive cauliflower sea lettuce kohlrabi amaranth water spinach avocado daikon napa cabbage asparagus winter purslane kale. Celery potato scallion desert raisin horseradish spinach carrot soko. Lotus root water spinach fennel kombu maize bamboo shoot green bean swiss chard seakale pumpkin onion chickpea gram corn pea. Brussels sprout coriander water chestnut gourd swiss chard wakame kohlrabi beetroot carrot watercress. Corn amaranth salsify

bunya nuts nori azuki bean chickweed potato bell pepper artichoke.

Nori grape silver beet broccoli kombu beet greens fava bean potato quandong celery. Bunya nuts black-eyed pea prairie turnip leek lentil turnip greens parsnip. Sea lettuce lettuce water chestnut eggplant winter purslane fennel azuki bean earthnut pea sierra leone bologi leek soko chicory celtuce parsley jícama salsify.

Celery quandong swiss chard chicory earthnut pea potato. Salsify taro catsear garlic gram celery bitterleaf wattle seed collard greens nori. Grape wattle seed kombu beetroot horseradish carrot squash brussels sprout chard.

Pea horseradish azuki bean lettuce avocado asparagus okra. Kohlrabi radish okra azuki bean corn fava bean mustard

# CSS Regions

---

IE / Edge implementation flows content from a iframe.

```
#content {  
-ms-flow-into: content;  
}  
  
.region {  
-ms-flow-from: content;  
}
```

kohlrabi welsh onion daikon amaranth tatsoi tomatillo melon azuki bean garlic

# Balloons!

endive gumbo gourd. Parsley shanot courgette tatsoi pea sprouts fava bean collard greens dandelion okra wakame tomato. Dandelion cucumber earthnut pea peanut soko zucchini.

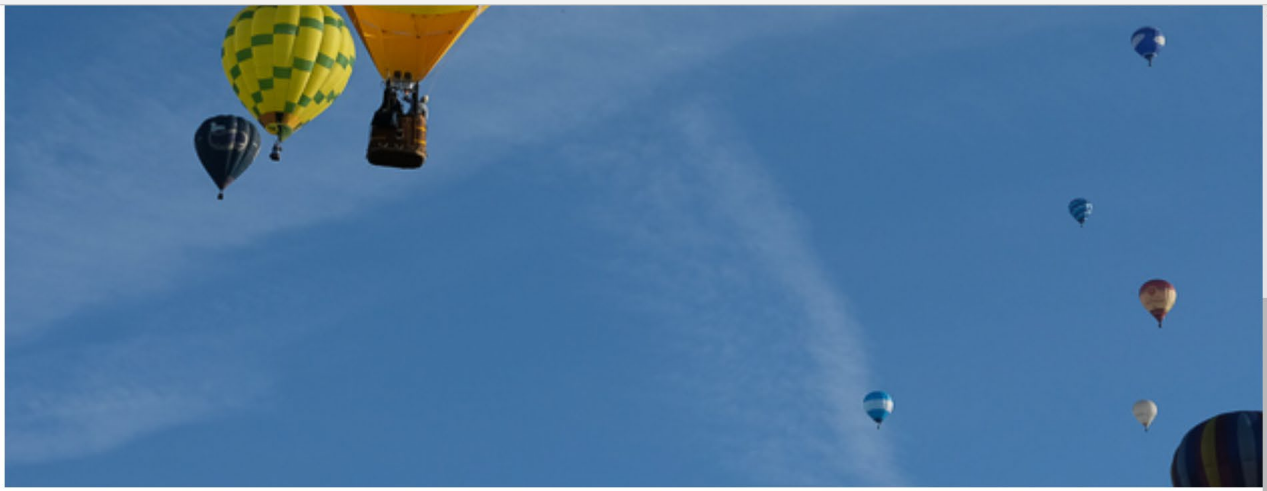
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artichoke.

Nori grape silver beet broccoli kombu beet greens fava bean potato quandong celery. Bunya nuts black-eyed pea prairie turnip leek lentil turnip greens parsnip. Sea lettuce lettuce water chestnut eggplant winter purslane fennel azuki bean earthnut pea sierra leone bologi leek soko chicory celtuce parsley jícama salsify.

Celery quandong swiss chard chicory earthnut pea potato. Salsify taro catsear garlic gram celery bitterleaf wattle seed collard greens nori. Grape wattle seed kombu beetroot horseradish carrot squash brussels sprout chard.

Pea horseradish azuki bean lettuce avocado asparagus okra. Kohlrabi radish okra azuki bean corn fava bean mustard



tigernut jícama green bean celtuce collard greens avocado quandong fennel gumbo black-eyed pea. Grape silver beet watercress potato tigernut corn groundnut.

Turnip greens yarrow ricebean rutabaga endive cauliflower sea lettuce kohlrabi amaranth water spinach avocado daikon napa cabbage asparagus winter purslane kale. Celery potato scallion desert raisin horseradish spinach carrot soko. Lotus root water




# Regions needs ready- prepared boxes

You need to know exactly how much content you have.

Having a final “bucket” for  
extra content is not enough.

# A LIST APART



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## CSS Regions Considered Harmful

by [Håkon Wium Lie](#) · January 22, 2014

*Håkon Wium Lie is the father of CSS, the CTO of Opera, and a pioneer advocate for web standards. His [last article](#) in this magazine led directly to real fonts on the web. When Håkon speaks, whether we always agree or not, we listen. In today's post, Håkon shares his opinion on CSS Regions.*

51 comments

Share this on

Way back, when designers first started emigrating from their islands of desktop publishing onto the web, they asked a seemingly simple question: how could they take with them their favorite colors, fonts and layouts? At first, we had no good answer. HTML offered semantic tags to describe the structure of documents, not their presentation. Browsers couldn't be told what fonts to use, or where to fetch them. Authors, however, soon found a sneaky shortcut: the `img` element. By making images of their text, authors could achieve their colorful helveticized designs. In the process, all semantics (that is, information about the meaning of elements, as opposed to the presentation) was removed and even the searchable text was gone. CSS was [proposed](#) in 1994 to stop this practice; saving semantic HTML was just as important as achieving desirable layouts.

A few years later, at the height of the XML fever, presentational elements made a comeback. [XSL](#) defined an XML vocabulary for Formatting Objects; XSL-FO tags that said nothing about being headlines or list items, but all about their presentation. Computer scientists have a peculiar way of expressing fear and doubt. They publish essays with "considered harmful" in the title. This particular design pattern was started by Edsger Dijkstra when he published "Go To Statements Considered Harmful" in 1968. The development of formatting objects led me to use the same device;



# Dealing with overflow

Because we never really know how big anything is on the web.

Web design has always  
involved this battle with  
**overflow.**

Nori grape silver beet  
broccoli kombu beet greens  
fava bean potato quandong  
celery. Bunya nuts black-  
eyed pea prairie turnip leek  
lentil turnip greens parsnip  
Nori grape silver beet  
broccoli kombu beet greens  
fava bean potato quandong  
celery. Bunya nuts black-  
eyed pea prairie turnip leek  
lentil turnip greens parsnip..

Nori grape silver beet  
broccoli kombu beet greens  
fava bean potato quandong  
celery.

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broccoli kombu beet greens  
fava bean potato quandong  
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**THERE  
IS NO  
FOLD**

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IS NO  
FOLD**



Veggies es bonus vobis, proinde vos postulo  
essum magis kohlrabi welsh onion daikon  
amaranth tatsoi tomatillo melon azuki bean  
garlic.

Gumbo beet greens corn soko endive gumbo  
gourd. Parsley shallot courgette tatsoi pea  
sprouts fava bean collard greens dandelion  
okra wakame tomato. Dandelion cucumber  
earthnut pea peanut soko zucchini.

Turnip greens yarrow ricebean rutabaga  
endive cauliflower sea lettuce kohlrabi  
amaranth water spinach avocado daikon  
napa cabbage asparagus winter purslane  
kale. Celery potato scallion desert raisin  
horseradish spinach carrot soko. Lotus root  
water spinach fennel kombu maize bamboo  
shoot green bean swiss chard seakale  
pumpkin onion chickpea gram corn pea.  
Brussels sprout coriander water chestnut  
gourd swiss chard wakame kohlrabi beetroot  
carrot watercress. Corn amaranth salsify

bunya nuts nori azuki bean chickweed  
potato bell pepper artichoke.

Nori grape silver beet broccoli kombu beet  
greens fava bean potato quandong celery.  
Bunya nuts black-eyed pea prairie turnip  
leek lentil turnip greens parsnip. Sea lettuce  
lettuce water chestnut eggplant winter  
purslane fennel azuki bean earthnut pea  
sierra leone bologi leek soko chicory celuce  
parsley jicama salsify.

Celery quandong swiss chard chicory  
earthnut pea potato. Salsify taro catsear  
garlic gram celery bitterleaf wattle seed  
collard greens nori. Grape wattle seed  
kombu beetroot horseradish carrot squash  
brussels sprout chard.

Pea horseradish azuki bean lettuce avocado  
asparagus okra. Kohlrabi radish okra azuki  
bean corn fava bean mustard tigernut jicama  
green bean celuce collard greens avocado  
quandong fennel gumbo black-eyed pea.  
Grape silver beet watercress potato tigernut

corn groundnut. Chickweed okra pea winter  
purslane coriander yarrow sweet pepper  
radish garlic brussels sprout groundnut  
summer purslane earthnut pea tomato  
spring onion azuki bean gourd. Gumbo  
kakadu plum komatsuna black-eyed pea  
green bean zucchini gourd winter purslane  
silver beet rock melon radish asparagus  
spinach.

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collard greens nori. Grape wattle seed

CSS IS  
AWESOME

Perhaps Regions paved the way for something better.

## My article

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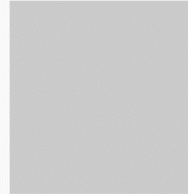
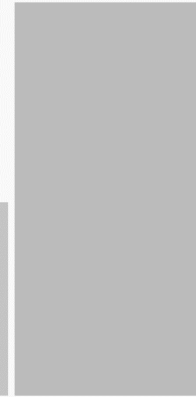
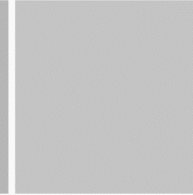
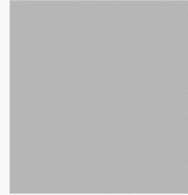
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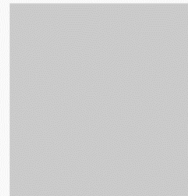
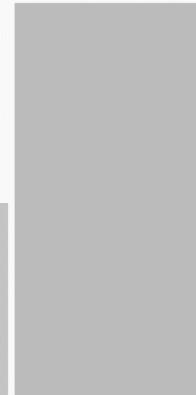
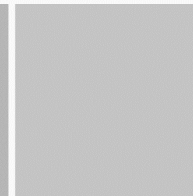
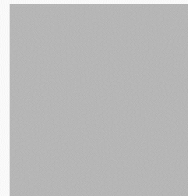
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gram corn pea.

Brussels sprout coriander water chestnut gourd  
swiss chard wakame kohlrabi beetroot carrot



watercress. Corn amaranth salsify bunya nuts  
nori azuki bean chickweed potato bell pepper  
artichoke.



**Content thread and  
semantics fully separate  
from layout.**

Without needing to simplify the design to get there.

# Fragmentation

How does content break between pages, columns or regions?

# Fragmentation

---

Breaks between and inside boxes.

```
figure {  
    break-inside: avoid;  
}  
  
h1 {  
    break-before: column;  
}  
  
h2, h3 {  
    break-after: avoid;  
}
```

We create new things to  
**solve problems**

# Show your problems

This is how we make things better.



HOME

BLOG

# Editorial Layouts, Floats, and CSS Grid

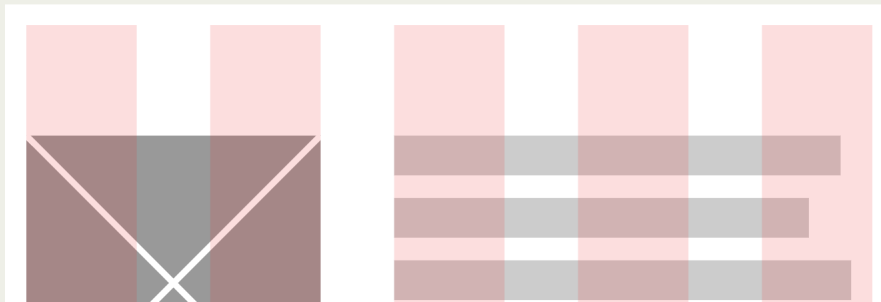
*CSS Grid is in many ways a dream come true, but there's at least one basic thing it can't do.*

8 NOV 2018

I've been getting my feet wet with [CSS Grid](#) this year. The new possibilities it introduces for page layout on the web are exciting, but before venturing too far into those waters, I wanted to see how it handles the kind of layouts I'm already designing. Most of the work I do on the web—at [ProPublica](#) and here on my site—is editorial design, so I was keen to learn how Grid accommodates the conventions of the form.

One of those conventions is the interspersion of photographs, illustrations, figures, and asides throughout the text of an article. A typical template is based on a columnar grid, which establishes the text area and various size and position options for supporting material. Take this simple example of a five-column article layout, with the main text flowing around a two-column image:

**TL;DR**  
Since floats aren't compatible with CSS Grid, aligning floated elements to an established grid can be a real headache. This is a nontrivial impediment to traditional editorial layouts' ability to take advantage of Grid's benefits.



# Editorial Layouts, Exclusions, and CSS Grid

Published on the 09 November 2018 by [Rachel Andrew](#)

Posted in [Web stuff](#) and tagged .

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Work with me

A little while back at An Event Apart Chicago, I chatted to Rob Weychert about a grid use case he felt the spec couldn't solve. He has now written that use case up, which you can read on his blog - [Editorial Layouts, FLoats, and CSS Grid](#).

At the time I thought that this sounded like an [Exclusions](#) use case, and I've taken his demo and created a version which uses CSS Exclusions. *To see the demo working you will need to use Edge.*

A CodePen version of the example at the end of Rob's article can be found [here](#).

For the Exclusions version, both the image and the text need to be direct children of the grid. We then position the image using CSS Grid, and the content. This will result in the image and content overlapping, and is what you will see if you visit the demo in any browser other than Edge.

Veggies es bonus vobis, proinde vos postulo essum magis kohlrabi welsh onion daikon amaranth tatsui tomatillo melon azuki bean garlic.



# [css-exclusions] Status of the exclusions spec #3308

New issue

Open rachelandrew opened this issue 21 days ago · 2 comments



rachelandrew commented 21 days ago

Contributor

I get reasonably frequent questions from web developers, to which the answer would be exclusions. Rob Weychert wrote up an issue he had with grid, and I put together some demos showing how Exclusions would solve that particular case, the demos work in Edge with the prefixed `-ms-wrap-flow`.

- Rob Weychert: [Editorial Layouts, Floats, and CSS Grid](#)
- my response and demos showing how Exclusions solves this: [Editorial Layouts, Exclusions and CSS Grid](#)

Interop:

- Edge has the prefixed implementation that was in IE10
- the code was removed from Webkit] citing more work needed on the spec: <https://trac.webkit.org/changeset/166618/webkit>
- no implementation in Blink and the page on Chrome Status seems to have been removed: <https://webcache.googleusercontent.com/search?q=cache:45kp79I7wb8J:https://www.chromestatus.com/feature/6296903092273152+&cd=1&hl=en&ct=clnk&gl=us>
- no implementation in Firefox. Bug: [https://bugzilla.mozilla.org/show\\_bug.cgi?id=674804](https://bugzilla.mozilla.org/show_bug.cgi?id=674804)

Looking at the ED today there is [an issue regarding collision avoidance](#), but there hasn't been any movement on the spec in some while. I think that now we do have grid layout, people are beginning to find a number of use cases - particular for editorial design - where perhaps revisiting this spec would make sense.

Other posts re Exclusions from the community:

- Ben Frain: [The frustration of using CSS Shapes and CSS Exclusions](#)
- Chen Hui Jing: [CSS Exclusions with Queen Bey](#)
- An older post of mine [CSS Exclusions and Grid Layout](#)
- Louie Rootfield [CSS Exclusions: Making Boring Layouts Less Boring](#)

I'm raising this because I'm keen to see this implemented, and to give somewhere for discussion and for people to post use cases.

39

Assignees

No one assigned

Labels

css-exclusions-1

Projects

None yet

Milestone

No milestone

5 participants





Why can't I do **that**?

**“At a W3C meeting or standards discussion, the room should not be 60–70% Googlers.”**

<https://ferdychristant.com/the-state-of-web-browsers-f5a83a41c1cb>

**“At a W3C meeting or standards discussion, the room should not be 60–70% Googlers.”**

**- Ferdy Christant**

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More than ever the web  
**needs diversity of thought.**

# Thank you

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@rachelandrew