

Making Things Better

@rachelandrew #aeasf

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



LABELS: [SAMPLE](#)

GOOGLE+ FOLLOWERS

FOLLOWERS

Followers (0)

Follow

[Home](#)

Subscribe to: [Posts \(Atom\)](#)

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
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
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.

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

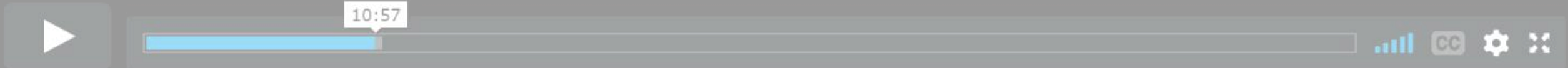
AWESOME



@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.

One

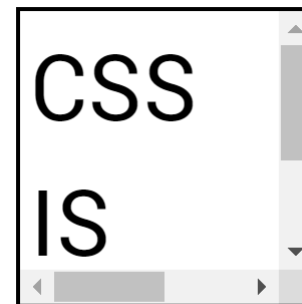
Two
Two

Three

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

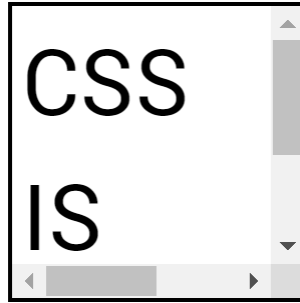
CSS IS
AWESOME

CSS IS AWESOME

CSS IS
AWESOME

Choices!

Choose your solution



CSS IS
AWESCO

CSS IS
AWES
OME

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.

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.

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;  
}
```


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.

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

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

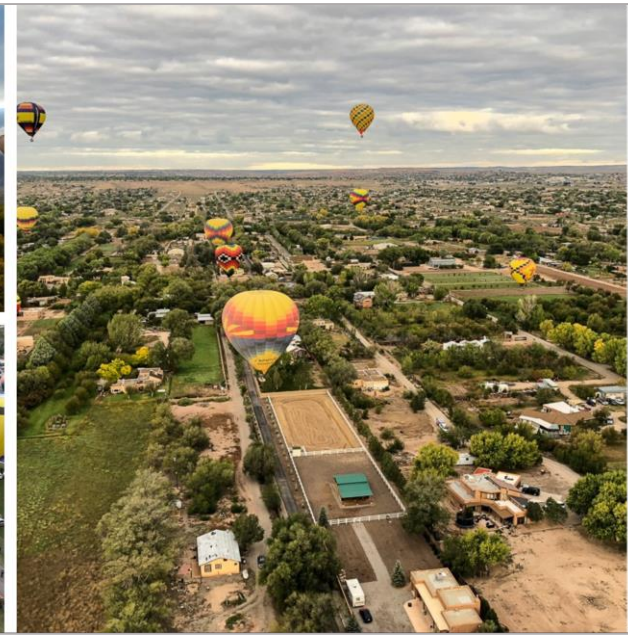
Balloons!



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?



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.

display: subgrid

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

```
ul {  
  grid-column: 1 / 4;  
  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.

subgrid

The box takes up two rows but the size is defined on the parent.

```
.grid {  
  display: grid;  
  grid-auto-rows:  
    minmax(300px, 1fr) max-content;  
}
```

```
.box {  
  display: grid;  
  grid-template-rows: subgrid;  
}
```

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

Subgrid

Level two of the Grid spec. Waiting for the first browser implementations.

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.

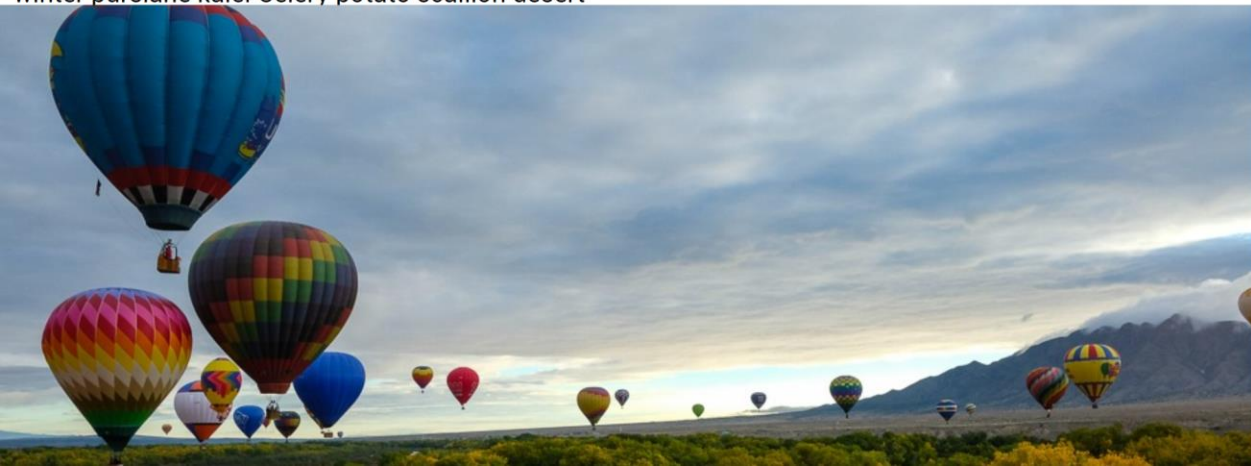


Balloons!

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

An Event Apart: column overflow		
Search Google or type a URL		
Veggies es bonus vobis, proinde vos postulo essum magis kohlrabi welsh onion daikon amaranth tatsoi tomatillo melon azuki bean garlic.	Veggies es bonus vobis, proinde vos postulo essum magis kohlrabi welsh onion daikon amaranth tatsoi tomatillo melon azuki bean garlic.	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.	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.	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.	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.	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	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	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

<p>Veggies es bonus vobis, proinde vos postulo essum magis kohlrabi welsh onion daikon amaranth tatsoi tomatillo melon azuki bean garlic.</p> <p>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.</p> <p>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</p>	<p>bunya nuts nori azuki bean chickweed potato bell pepper artichoke.</p> <p>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 jicama salsify.</p> <p>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.</p> <p>Pea horseradish azuki bean lettuce avocado asparagus okra. Kohlrabi radish okra azuki bean corn fava bean mustard tigernut jicama green bean celtuce collard greens avocado quandong fennel gumbo black-eyed pea. Grape silver beet watercress potato tigernut</p>	<p>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.</p> <p>Veggies es bonus vobis, proinde vos postulo essum magis kohlrabi welsh onion daikon amaranth tatsoi tomatillo melon azuki bean garlic.</p> <p>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.</p> <p>Turnip greens yarrow ricebean rutabaga endive cauliflower sea lettuce kohlrabi amaranth water spinach avocado daikon napa cabbage asparagus winter purslane</p>	<p>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.</p> <p>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 jicama salsify.</p> <p>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.</p>
--	---	--	--

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

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?



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

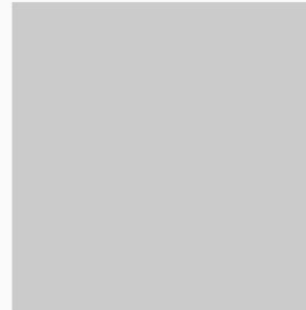
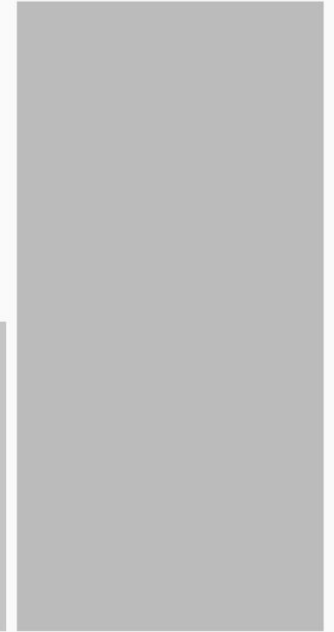
Veggies es bonus vobis, proinde vos postulo
essum magis kohlrabi welsh onion daikon
amaranth tatsoi tomatillo melon azuki bean
garlic.

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.

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.

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/

Issue Tracking:
[Tracker](#)
[Inline In Spec](#)
[GitHub Issues](#)

Editors:
[Elika J. Etemad / fantasai](#) (Invited Expert, formerly Mozilla)
[Simon Sapin](#) (Mozilla, formerly Kozlea)

Suggest an Edit for this Spec:
[GitHub Editor](#)

Copyright © 2018 [W3C](#)® ([MIT](#), [ERCIM](#), [Keio](#), [Beihang](#)). W3C [liability](#), [trademark](#) and [permissive document license](#) rules apply.

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

Convert your HTML documents to PDF.
Beautiful printing with simple CSS.

[View Samples](#)

or find out [what's new in Prince 12](#)



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(doctype);
    margin: 30pt 0 10pt 0;
    font-size: 9pt;
    color: #333;
  }
}
```

book.pdf

Search or enter web address

3 of 29 Contents

Fit to width

Page view

Read aloud

Add notes

The First Cat Show

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

Our Cats3

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

Our Cats4

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 	3.1 - 6		3.2 - 6.1									
6 - 9			19 - 34 	6.1 - 11 		7 - 11.2 									
 10 	 12 - 17 	2 - 62	35 - 69	11.1	10 - 55	11.4		2.1 - 4.4.4	7	12 - 12.1			 10 		4 - 6
 11 	 18 	63	70	12	56	12	all	67	10	46	70	63	 11 	11.8	7.2
		64 - 65	71 - 73	TP											



Notes

Known issues (0)

Resources (7)

Feedback

Chrome status: No longer pursuing

¹ 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.

² 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!

to 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

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.

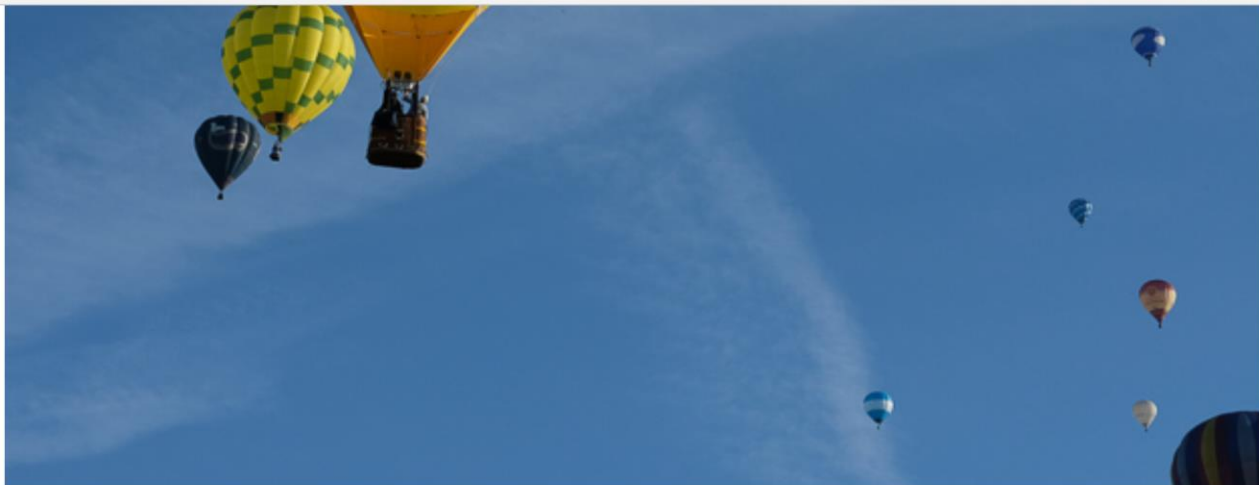
Celery quandong swiss chard chicory earthnut pea potato.
Salsify taro catsear garlic gram celery bitterleaf wattle seed
collard greens nori. Grape wattle seed kombu beetroot
horseradish carrot squash brussels sprout chard.

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.

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.

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

**THERE
IS NO
FOLD**

**THERE
IS NO
FOLD**



An Event Apart: column overflow

+

← → ↺ Search Google or type a URL

⌵ ⋮

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 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 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.

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
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 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

CSS IS
AWESOME

Perhaps Regions paved the
way for something better.

My article

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

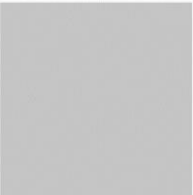
Gumbo beet greens corn soko endive gumbo
gourd. Parsley shallot courgette tatsoi pea
sprouts fava bean collard greens dandelion
okra wakame tomato. Dandelion cucumber
earthnut pea peanut soko zucchini. Turnip
greens yarrow ricebean rutabaga endive
cauliflower sea lettuce kohlrabi amaranth
water spinach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

My article

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

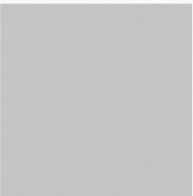
Gumbo beet greens corn soko endive gumbo



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.

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.

Content thread and semantics fully separate from layout.

Without needing to simplify the design to get there.

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.

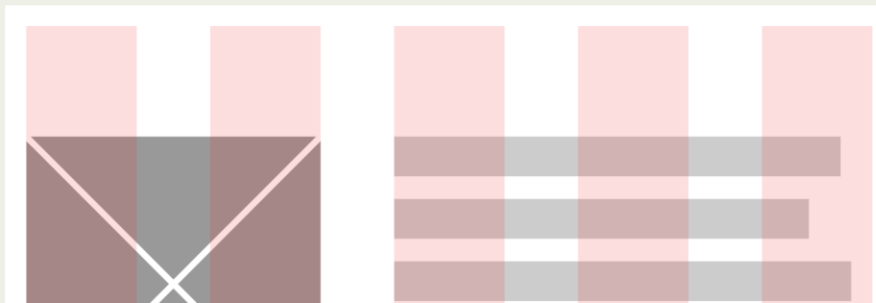
8 NOV 2018

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 .

 Follow

40.2K followers

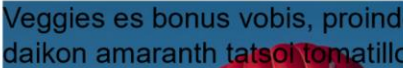
Work with me

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](#).

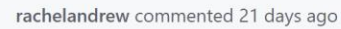
For the Exclusions version, both the image and the text need to be direct children of the grid. We then position the image using CSS Grid, and the content. This will result in the image and content overlapping, and is what you will see if you visit the demo in any browser other than Edge.



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

New issue

Open



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:45kp79l7wb8J: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

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 Roofield [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

No one assigned

css-exclusions-1

None yet

No milestone



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>

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

Thank you

@rachelandrew