

Adventures in accessible storytelling

This presentation contains animated content

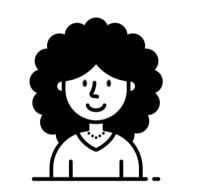
Hi, I'm Becky

Software Engineer Visual Journalism, BBC News

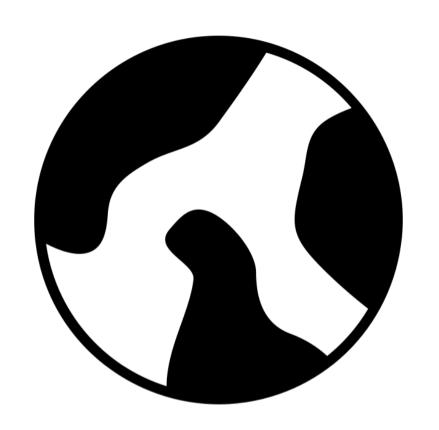
@Rushlet_

What is Visual Journalism?











Did your local services hit or miss their targets?

Homerton University Hospital NHS Trust

A&E waits less than four hours



Cancer care within 62 days



Planned ops & care within 18 weeks



NHS City & Hackney

Mental health therapy within six weeks



Target: 75%

Patients treated or admitted within four hours of arrival at A&E

December 2018 figures

TARGET

YOUR TRUST

ENGLAND

95.0% 93.7% 86.4%

Grab an object of oppression and drag it into the trash!





Start again (





How do your food choices impact on the environment?
Which food would you like?
Beef V
How often do you have it?
Once a day
75g, equivalent to one typical fast food hamburger, per serving
Over an entire year your consumption of beef is contributing 2,820kg to your annual greenhouse gas emissions.
That's the equivalent of driving a regular petrol car 7,196 miles (11,581km).
OR the same as heating the average UK home for 447 days .
OR like taking 8 return flights from London to Malaga.
Your consumption of beef also uses
8,094m² land, equal to the space of 31 tennis courts.

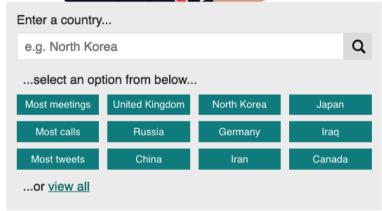
What has President Trump said about your country?



Donald Trump is a man who prefers plain speaking to the language of diplomacy.

Find out what he has said about your country, which foreign leaders he has met or called since taking office, and which countries he has mentioned in his tweets.





United Kingdom 😁

6

17 Phone calls 10

Meetings

Tweets

"

"I would have done [Brexit] much differently. I actually told Theresa May how to do it but she didn't agree, she didn't listen to me. She wanted to go a different route. I would actually say that she probably went the opposite way. And that is fine."

- Donald Trump in **an interview** with The Sun newspaper, 13 Jul 2018



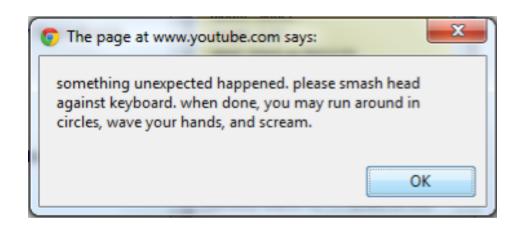
Falling through the gap: bit.ly/bbc-scrolly





How do you draw and animate over 10,000 data points?





```
regl({
 // In a draw call, we can pass the shader source code to regl
 frag: `
 precision mediump float;
 uniform vec4 color;
 void main () {
   gl_FragColor = color;
 }`,
 vert: `
 precision mediump float;
 attribute vec2 position;
 void main () {
   gl_Position = vec4(position, 0, 1);
 }`,
 attributes: {
   position: [
     [-1, 0],
     [0, -1],
     [1, 1]
   ]
 },
 uniforms: {
   color: [1, 0, 0, 1]
 },
 count: 3
})()
```

PETER BESHAI

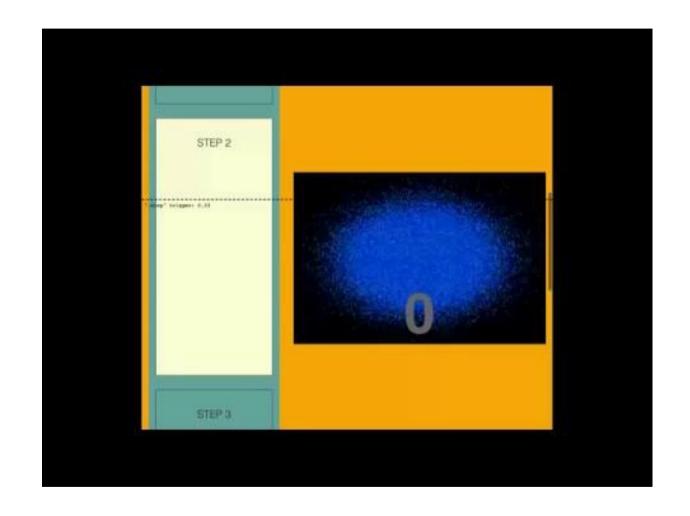
Home • Writing • Projects • Experiments • Open Source

BEAUTIFULLY ANIMATE POINTS WITH WEBGL AND REGL

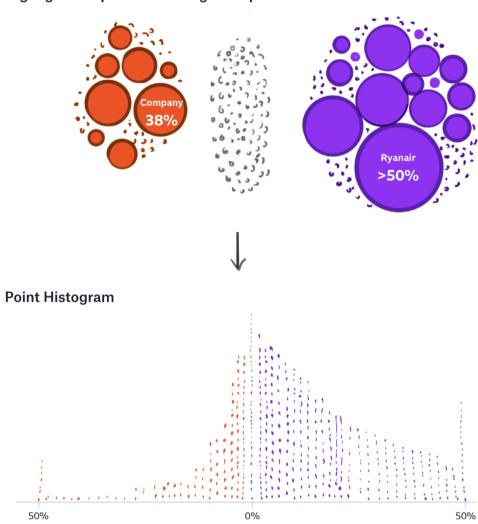
May 26, 2017 • 13 min read • Demo

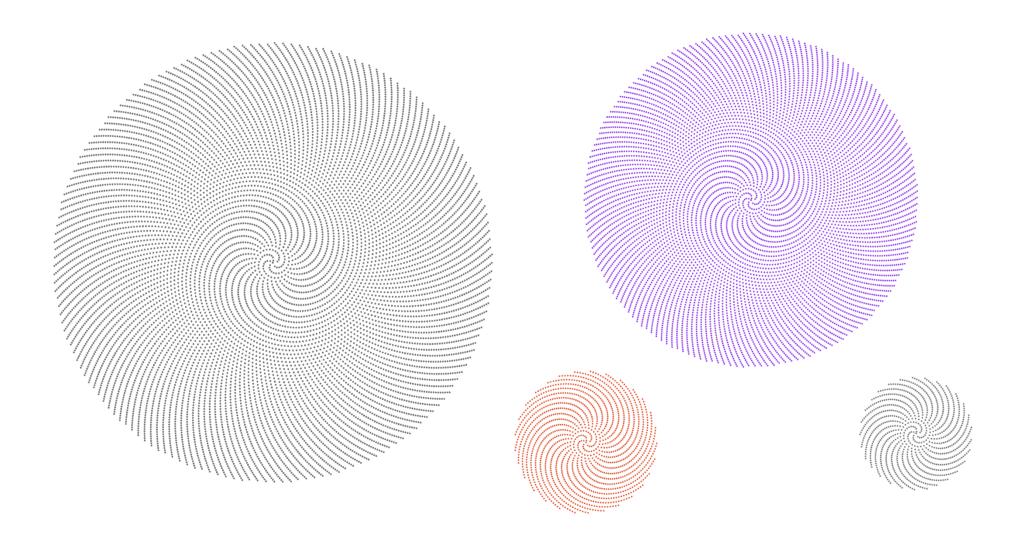


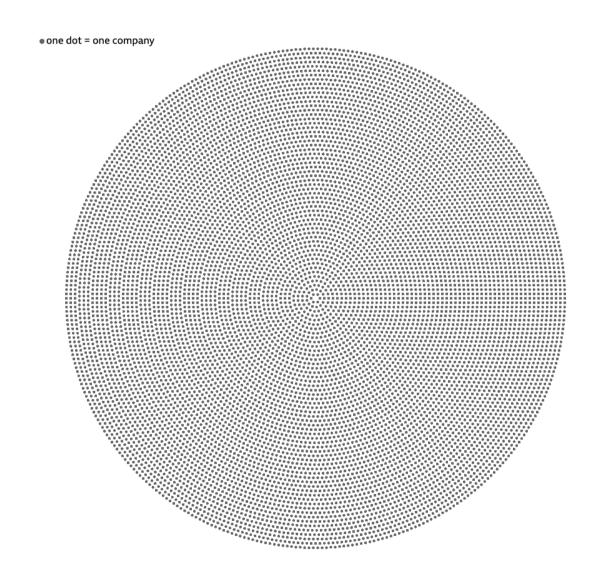
I've got a fever, and the only prescription is more points dancing across my screen. In a previous blog post, I covered how to animate thousands of points using HTML5 canvas and d3, but that approach doesn't scale too well beyond 10,000 points. Perhaps you can push it to 20,000 if you don't mind dropping a frame here or there, but if you need that buttery smoothness, you're going to want to switch from the 2D canvas to using WebGL. And who doesn't need buttery smoothness?

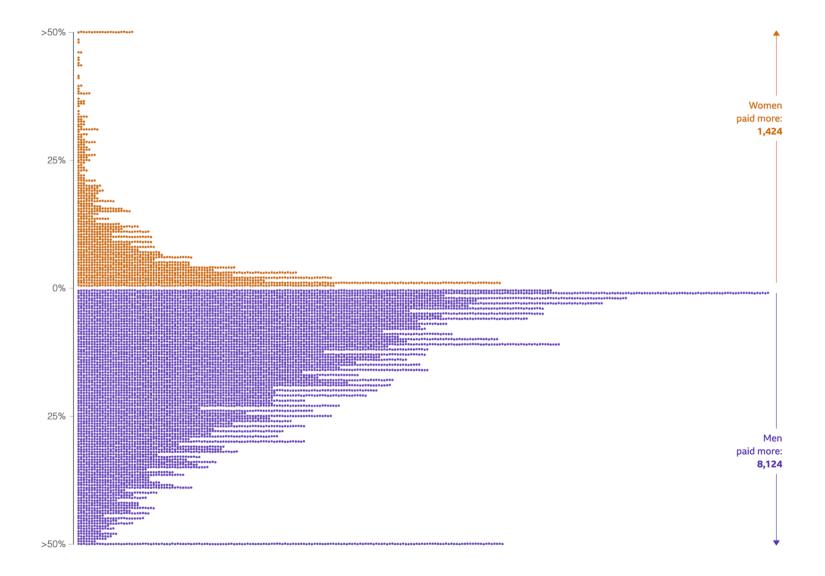


Highlight companies with large companies











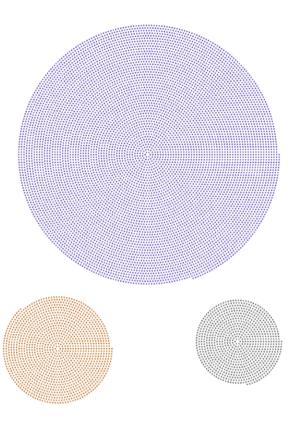




"We don't have any non-JavaScript users" No, all your users are non-JS while they're downloading your JS

2:09 PM - 28 May 2012





If you work at a large firm it probably pays the average man more than the average woman - **8,124 companies pay men more**, while just **1,424 pay women more**.

"If your website is not accessible, that means real humans on the internet cannot use it"

- Trish Ang (@feesh)





Follow

If any devs out there are taking the #BirdBoxChallenge, I suggest you start by blindfolding yourself and trying to use your site with a screenreader. IRL, the chirping birds are tweets saying some folks can't use your work. Ok, cosplay over. You have work to do. #a11y #SUX

12:14 PM - 3 Jan 2019



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FEATURES

#ACCESSIBILITY

#SCROLLING

#MIGRAINES ARE TERRIBLE

#MOTION

Your Interactive Makes Me Sick

Why your coolest scrolly features can cause problems, and what to do about it

By Eileen Webb Posted on: March 1, 2018





By Clara Guibourg, Nassos Stylianou, Irene de la Torre Arenas & Becky Rush © 5 April 2019 Business

Falling through the gap: How the UK's gender pay gap sizes up

More than 10,000 British firms have revealed the difference between what they pay men and women. This is the second year that all companies with 250 or more employees have been required to disclose their pay gaps, revealing that more than three in four companies pay men more than they pay women. This is how the UK's pay gap sizes up.

This article contains animated content, if you would prefer not to see this, you can turn animation off by clicking the toggle below.





Becky Rush [Rushlet] @Rushlet_ · Apr 7

And after reading @webmeadow's article source.opennews.org/articles/motio...

I was very aware of accessibility issues with this format. One of the solutions I implemented was an animation toggle - allowing users with vestibular impairments to turn off the animations easily if they want/need





Following

Replying to @Rushlet_

I FEEL SO LOVED 💞

5:28 PM - 8 Apr 2019

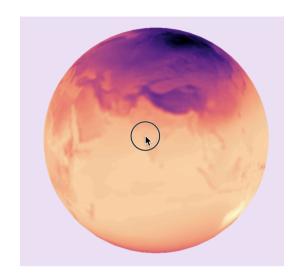
2 Likes



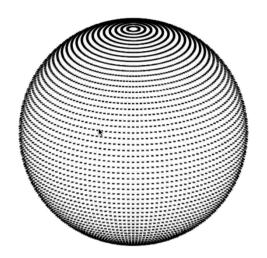
How much warmer is your city?

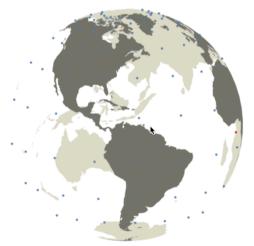
<u>bit.ly/bbc-climate</u>

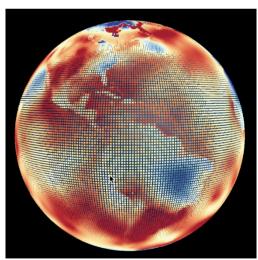
How do you make a 3d globe?

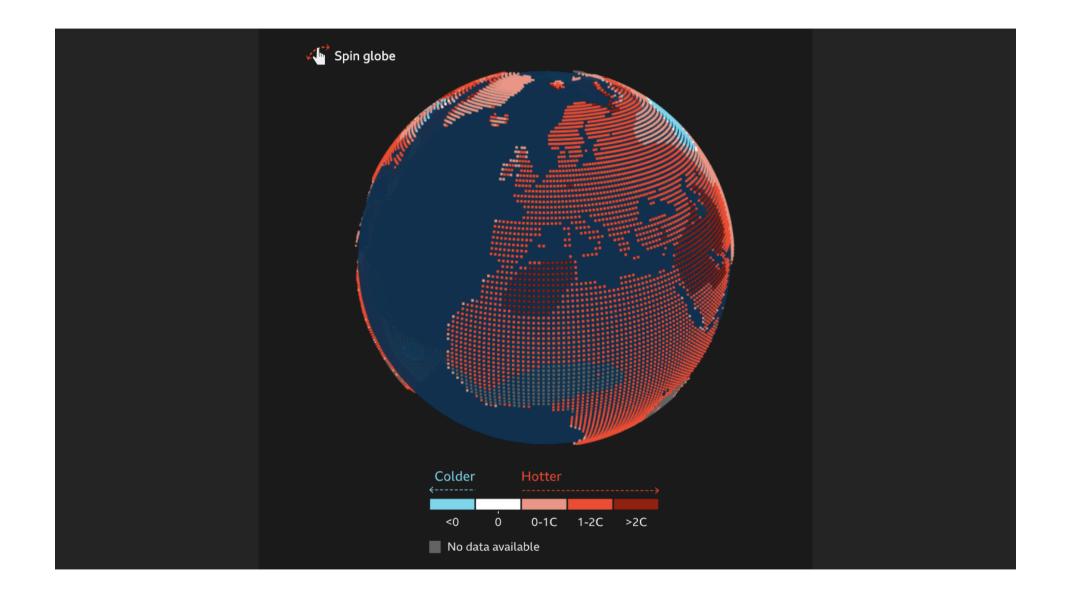


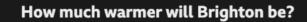


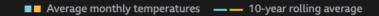


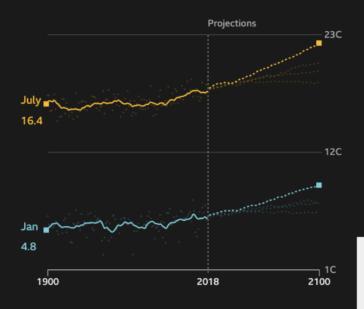












Which of these scenarios is closest to the reality of 2100 will depend on the action countries across the globe take. Temperatures could be even higher or lower depending on how the atmosphere reacts to new levels of CO2 in the future.

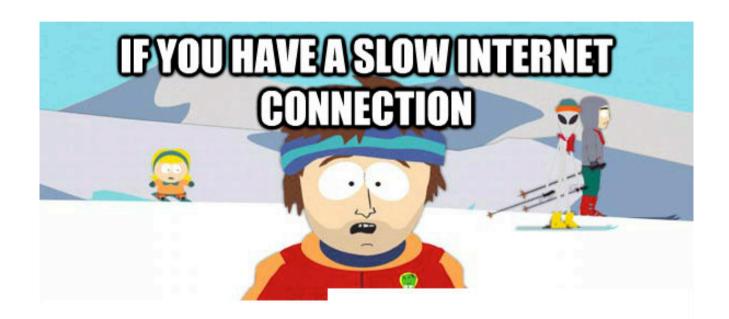


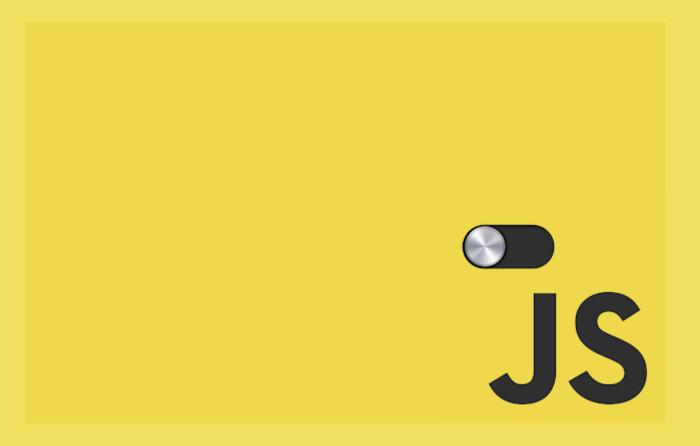


Hey @visualisingdata, check out this little animation on/off toggle at the very top of this @BBCNewsGraphics story. #littleviz #littlevis (how do you spell it?) | bbc.co.uk/news/resources...



```
How much warmer is your city? Maagaalaan keessan hangam ho'a?
    إلى أي مدى ارتفعت حرارة مدينتك؟ يومدى ارتفعت حرارة مدينتك بالص
            Şəhərinizdə hava nə qədər istiləşib?
                                                  Quanto sua cidade
                                              તમારું શહેર કેટલું ગરમ છે?
                你所在城市溫度升高了多少?
 esquentou?
 Yaya zafin garinku yake? आपका शहर कतिना गर्म है?
                                              Apakah kota Anda
 makin panas? 당신이 살고 있는 도시는 얼마나 더워졌을까?
                                                    तुमचं शहर कर्ती
उष्ण आहे? ¿Cuánto subirá la temperatura en tu ciudad?
                                                              तपाईँको
 सहर कति तातो छ ं است؟ شور شما چقدر گرمتر شده است उग्र प्राधिव विंठा वावभ ਹै?
     Насколько потеплело в вашем городе? Koliko je topliji vaš grad?
 Magaaladaada heer kulkeeda halkuu gaarsiisan yahay?
                                                       Mji wako una
kiasi gani cha joto? உங்கள் நகரம் எந்த அளவுக்கு வெப்பமாக உள்ளது?
  మ్ నగరం ఎంత వేడిగా ఉంది? โม่ืองท่ี โค ุณอย่า ร้อนขึ้นแค่ไหน
   Kentiniz ne kadar ısındı? Наскільки потеплішало у вашому місті?
     Thành phố của bạn nóng lên thế آپ کے شہر کا موسم کتن اگرم ہے؟
                               nào?
```

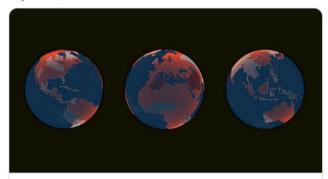






Greenpeace ② @Greenpeace · Aug 12

The world is getting hotter. July 2019 was one of the warmest months ever recorded. Find out how much your city has already warmed and what may lie ahead. #climatecrisis



How much warmer is your city? - BBC News Climate change: Find out how much the area around your city has already warmed and what may lie ahead

⊗ bbc.co.uk

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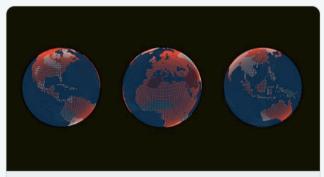
♡ 351

₾



Lee Hsien Loong 🤣 @leehsienloong · Aug 15

.@BBCNews collated temperature data from 1,000 cities & charted out how much temperatures would increase in coming years. A sobering result of global warming. I will be speaking more about how we are tackling climate change at #NDRsg this Sun 18 Aug. – LHL



How much warmer is your city? - BBC News

Climate change: Find out how much the area around your city has already warmed and what may lie ahead & bbc.co.uk

♀ 20

17 98

♡ 224

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Thanks for listening

@Rushlet_