Using Open Source to Solve an Identity Crisis

Tracking the Bengali Diaspora

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Content Warning:

Mentions of:

- Death or dying.
- Genocide and warfare.

The story of me.

Genocide and data.

Where the tech comes in.

'98

they have no idea what it is like
to lose home at the risk of
never finding home again
have your entire life
split between two lands and
become the bridge between two countries

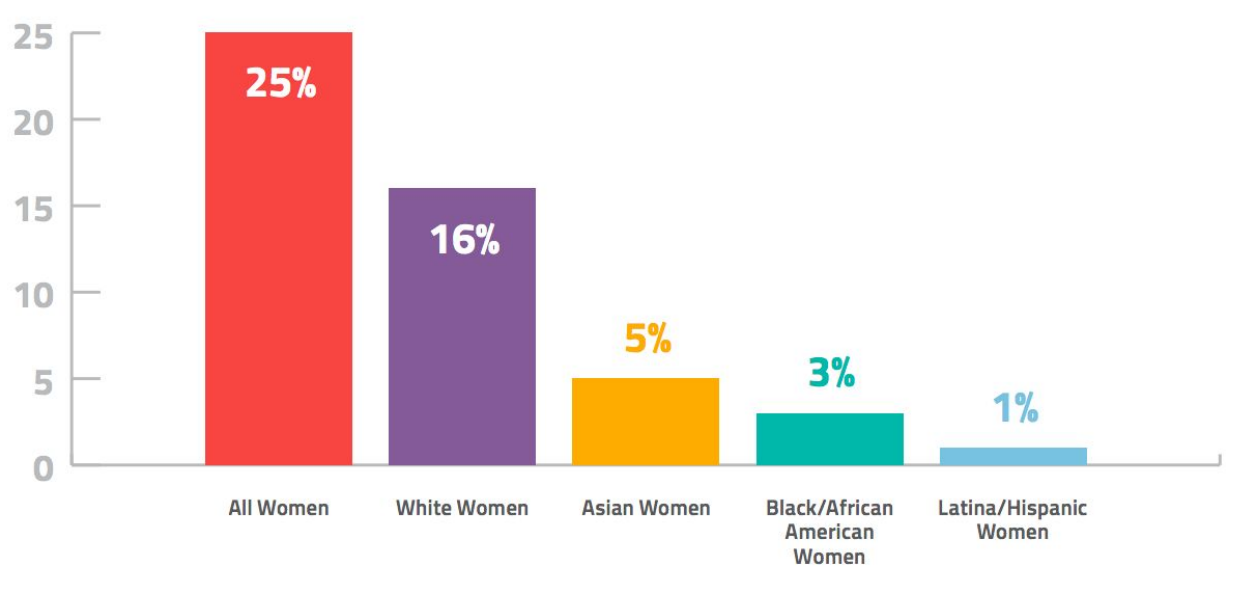
first generation immigrant - rupi kaur

Being a WoC in tech is like being a double minority.

Being a WoC or a Non-binary PoC in tech is like being a double minority.

In 2015, women made up 25 percent of computing-related occupations. (NCWIT/ Bureau of Labor, 2016).

Percentage of Computing Occupations Held By Women, 2015



The intersection of tech and cultural identity occured once I moved past building apps and websites for the sake of building apps and websites and bridged an understanding of what matters to me.

How do I use my experiences to create a better future for those like me who come after me?

- 11th most densely populated country
- Known for textiles exports {Zara, H&M factories}
- March 1971 – December 16, **1971** Bangladesh Liberation War
- Genocide: About 3 Million Bengalis murdered

diaspora

noun | di·as·po·ra | \ dī-ˈas-p(ə-)rə , dē- \

the movement, migration, or scattering of a people away from an established or ancestral homeland

or

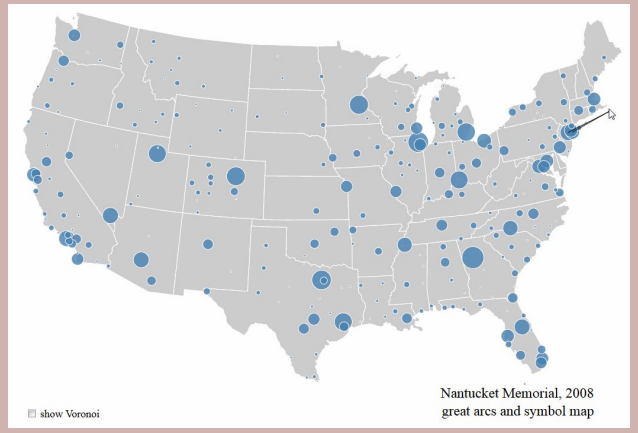
any group migration or flight from a country or region.

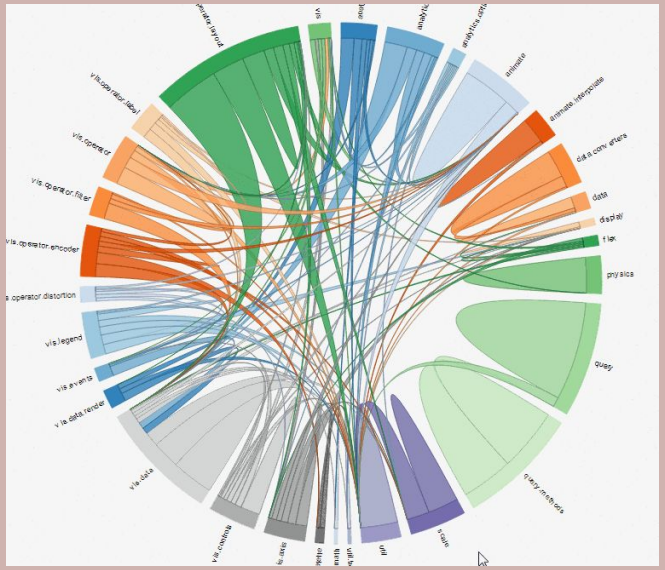
Data is always collected with an agenda.

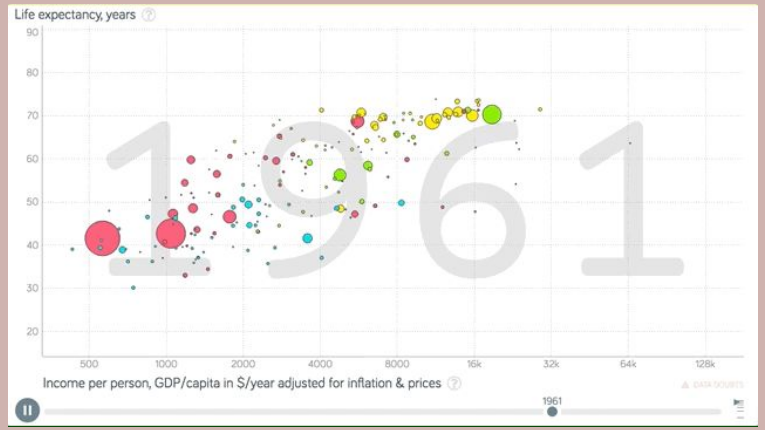
I wanted to make my father's memories of war concrete with some hard numbers.

Big data has a history of harming marginalized communities.

D3.JS is a great introduction to data visualization.

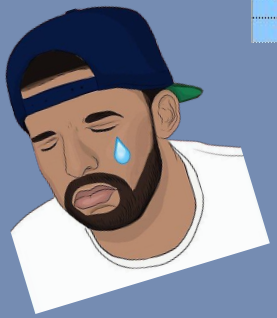

show Voronoi
Nantucket Memorial, 2008
great arcs and symbol map




Life expectancy, years
1961
Income per person, GDP/capita in $/year adjusted for inflation & prices
1961

Running through the UN archives with my woes.

Year	Sort order	Major area, region, country or area of destination	Notes	Code	Type of data (a)	Bangladesh
1990	1990002	More developed regions	b	901		160,805
1990	1990003	Less developed regions	c	902		5,290,741
1990	1990004	Least developed countries	d	941		2,047
1990	1990005	Less developed regions, excluding least developed countries		934		5,288,694
1990	1990006	High-income countries	e	1503		1,038,610
1990	1990007	Middle-income countries	e	1517		4,412,312
1990	1990008	Upper-middle-income countries	e	1502		34,282
1990	1990009	Lower-middle-income countries	e	1501		4,378,030
1990	1990010	Low-income countries	e	1500		624
1990	1990011	Sub-Saharan Africa	f	947		2,649
1990	1990012	AFRICA		903		3,079
1990	1990013	Eastern Africa		910		132



#WSC2018Conf

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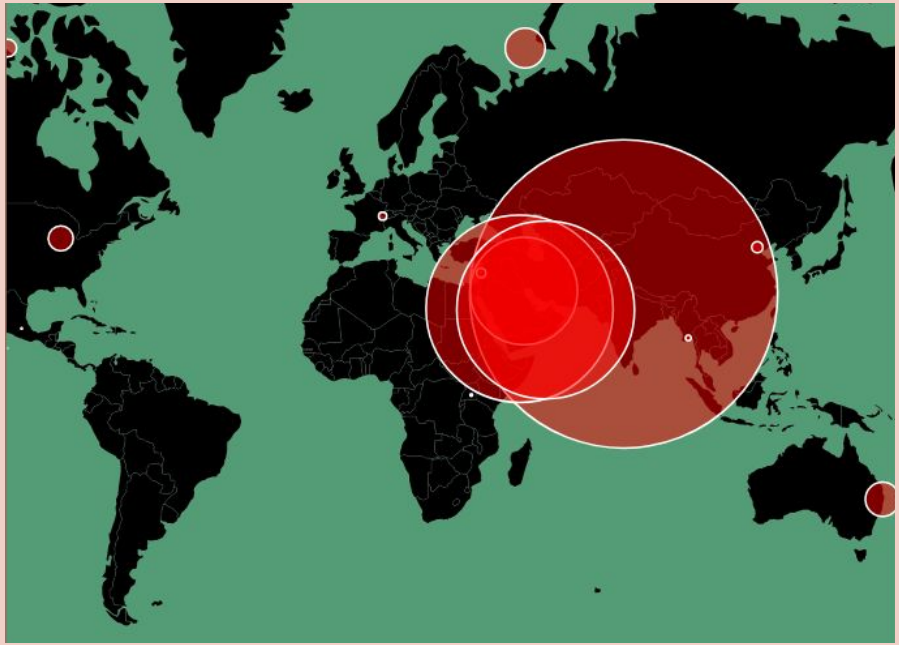

```
79  d3.json(worldMapJson, function(error, countries) {
80    d3.json(populationsJson, function(error, populations) {
81      if (error) throw error;
82      let year = 2016;
83      let mapG = svg.append('g');
84      let map = svg.append('g');
87      mapG.selectAll("path")
88        .data(countries.features)
89        .enter().append("path")
90        .attr("d", path)
91        .style('fill','black')
92        .style('stroke','white')
93        .style('stroke-width','0.1');
94      let trans = {};
95      let zoom = d3.zoom()
96        .scaleExtent([1, 8])
97        .on("zoom", () => {
98          trans["stroke-width"] = 1.5 / d3.event.transform.k + "px";
99          trans["transform"] = d3.event.transform;
100         mapG.style("stroke-width", trans["stroke-width"]);
101         mapG.attr("transform", trans["transform"]);
102         map.style("stroke-width", trans["stroke-width"]);
103         map.attr("transform", trans["transform"]);
104       });
105     svg.call(zoom);
106
107     d3.csv("resources/styles/ImmigrationRoutes.csv",row => {
108         row.Year = +row.Year;
109         row['num_of_people'] = +row['num_of_people']; return row;
110     }, function(data) {
111       let nestD = d3.nest().key(d => d.Year).entries(data);
112       let nest_Cause = d3.nest()
113         .key(d => d.Year).key(d => d['location']).entries(data);
114       let causeArr2 = nest_Cause.map( c => {
115         let obj = {};
116         obj.time = c.key;
117         let _n = c.values;
```

With great power comes great responsibility.

Thank you!

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