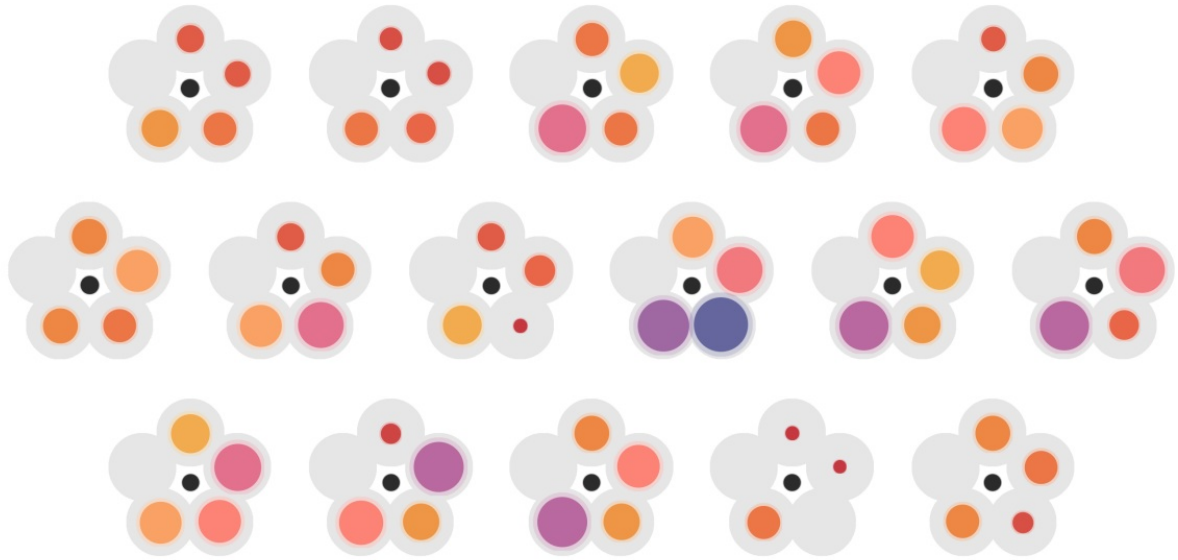


.....

THE POWER OF DATA VISUALIZATION





Find All the 2's

9	8	0	0	2	3	5	1	1	2	0	2	4	2	5	5	3	7	9	2
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Find All the 2's

9	8	0	0	2	3	5	1	1	2	0	2	4	2	5	5	3	7	9	2
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Find All the 2's

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Find All the 2's

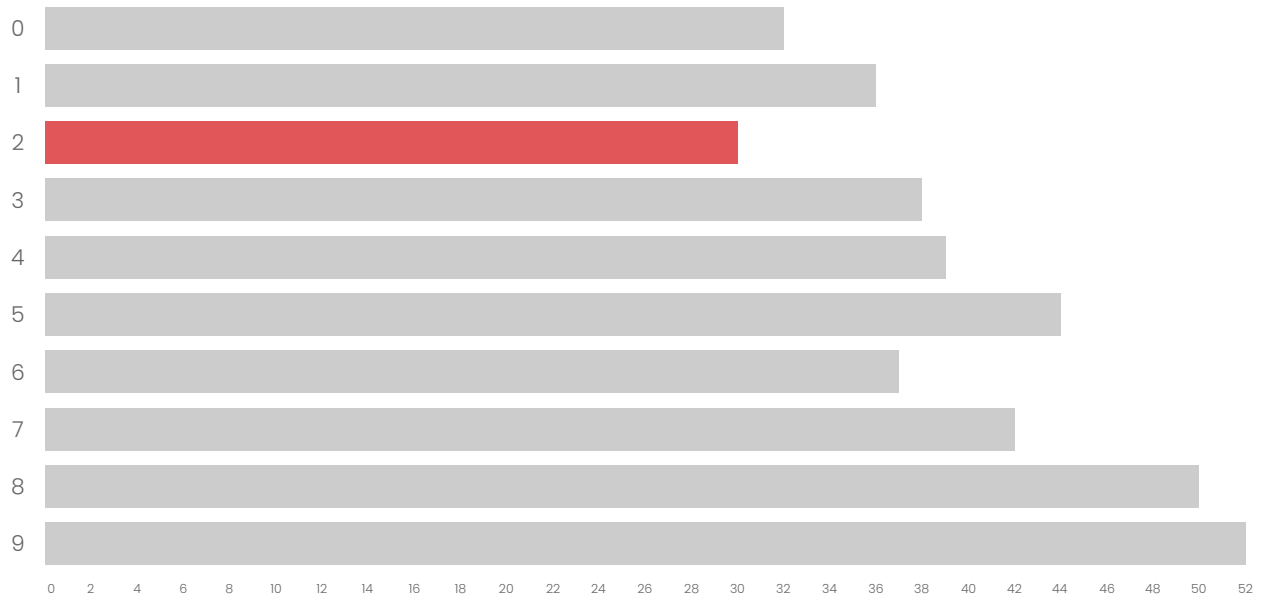
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30

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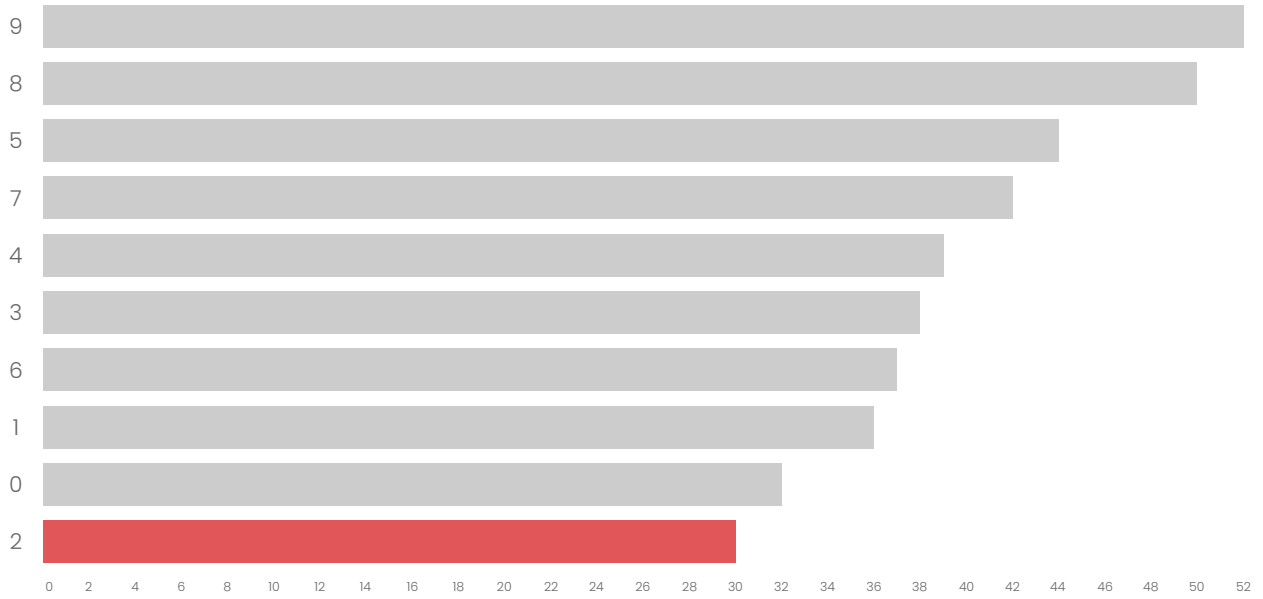


Find All the 2's





Find All the 2's

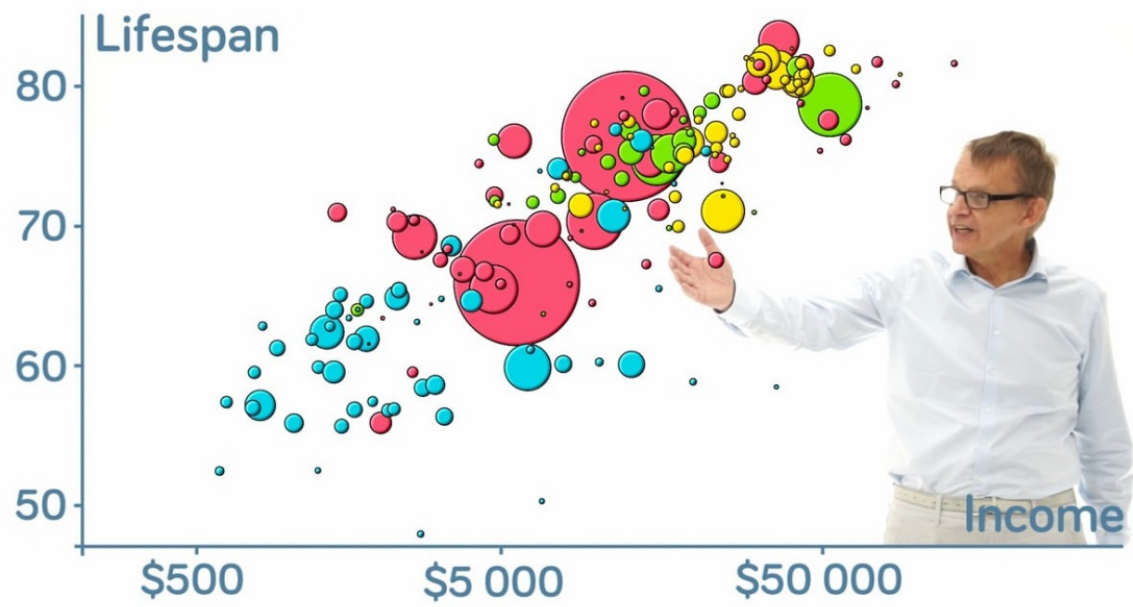


Challenge: Discover the same insights with the raw data...

GDP per capita	1800	1801	1802	1803	1804	1805	1806	1807	1808	1809	1810	1811	1812	1813	1814	1815
Abkhazia																
Afghanistan	603	603	603	603	603	603	603	603	603	603	604	604	604	604	604	604
Akrotiri and Dhekelia																
Albania	667	667	668	668	668	668	668	668	668	668	668	668	669	669	669	669
Algeria	716	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730
American Samoa																
Andorra	1197	1199	1201	1204	1206	1208	1210	1212	1215	1217	1219	1221	1224	1226	1228	1230
Angola	618	620	623	626	628	631	634	637	640	642	645	648	651	654	657	660
Anguilla																
Antigua and Barbuda	757	757	757	757	757	757	757	758	758	758	758	758	758	758	758	759
Argentina	1507	1508	1508	1508	1508	1508	1509	1509	1509	1509	1510	1510	1510	1510	1511	1512
Armenia	514	514	514	514	514	514	514	514	514	514	514	515	515	515	515	516
Aruba	833	833	833	833	833	833	833	834	834	834	834	834	834	834	834	835
Australia	815	816	818	820	822	824	826	828	830	832	834	835	837	839	841	843
Austria	1848	1855	1863	1870	1878	1885	1893	1901	1908	1916	1924	1932	1939	1947	1955	1963
Azerbaijan	775	775	775	775	775	776	776	776	776	776	777	777	777	777	777	778
Bahamas	1445	1445	1445	1446	1446	1446	1446	1447	1447	1447	1447	1448	1448	1448	1448	1449
Bahrain	1235	1240	1246	1251	1256	1262	1267	1273	1278	1284	1289	1295	1300	1306	1312	1318
Bangladesh	876	876	876	876	876	876	876	876	876	876	875	875	875	875	875	876
Barbados	913	914	914	914	914	914	914	914	915	915	915	915	915	915	915	916
Belarus	608	608	608	609	609	609	610	610	610	611	611	611	612	612	612	613
Belgium	2412	2413	2413	2413	2414	2414	2414	2415	2415	2416	2416	2416	2417	2417	2417	2418
Belize	579	579	579	579	579	579	579	579	579	579	580	580	580	580	580	581
Benin	597	597	597	597	597	597	597	597	597	597	598	598	598	598	598	599
Bermuda	1227	1227	1228	1228	1228	1228	1228	1229	1229	1229	1229	1229	1229	1230	1230	1231
Bhutan	629	629	630	630	630	630	630	630	630	630	630	630	631	631	631	632
Bolivia	854	854	854	854	854	854	854	854	855	855	855	855	855	855	855	856
Bosnia and Herzegovina	669	669	669	669	669	669	669	669	669	669	670	670	670	670	670	671
Botswana	397	397	397	397	397	398	398	398	398	398	398	398	398	398	398	399
Brazil	1109	1109	1109	1109	1110	1110	1110	1110	1110	1110	1111	1111	1111	1111	1111	1112
British Virgin Islands																
Brunei	1512	1512	1512	1513	1513	1513	1513	1513	1514	1514	1514	1514	1515	1515	1515	1516
Bulgaria	1089	1089	1089	1089	1090	1090	1090	1090	1090	1090	1091	1091	1091	1091	1091	1092
Burkina Faso	480	480	480	480	480	480	480	480	480	480	480	480	480	481	481	482
Burundi	418	418	419	419	420	420	420	421	421	422	422	422	423	423	423	424
Cambodia	903	904	904	904	904	904	904	904	905	905	905	905	905	905	905	906
Cameroon	626	626	626	626	626	627	627	627	627	627	627	627	627	627	627	628
Canada	1314	1322	1330	1339	1347	1356	1365	1373	1382	1391	1400	1409	1417	1427	1436	1445
Cape Verde	529	529	529	529	530	530	530	530	530	530	530	530	530	530	530	531

Life expectancy	1800	1801	1802	1803	1804	1805	1806	1807	1808	1809	1810	1811	1812
Abkhazia													
Afghanistan	28.21	28.2	28.19	28.18	28.17	28.16	28.15	28.14	28.13	28.12	28.11	28.1	28.09
Akrotiri and Dhekelia													
Albania	35.4	35.4	35.4	35.4	35.4	35.4	35.4	35.4	35.4	35.4	35.4	35.4	35.4
Algeria	28.82	28.82	28.82	28.82	28.82	28.82	28.82	28.82	28.82	28.82	28.82	28.82	28.82
American Samoa													
Andorra													
Angola	26.98	26.98	26.98	26.98	26.98	26.98	26.98	26.98	26.98	26.98	26.98	26.98	26.98
Anguilla													
Antigua and Barbuda	33.54	33.54	33.54	33.54	33.54	33.54	33.54	33.54	33.54	33.54	33.54	33.54	33.54
Argentina	33.2	33.2	33.2	33.2	33.2	33.2	33.2	33.2	33.2	33.2	33.2	33.2	33.2
Armenia	34	34	34	34	34	34	34	34	34	34	34	34	34
Aruba	34.42	34.42	34.42	34.42	34.42	34.42	34.42	34.42	34.42	34.42	34.42	34.42	34.42
Australia	34.05	34.05	34.05	34.05	34.05	34.05	34.05	34.05	34.05	34.05	34.05	34.05	34.05
Austria	34.4	34.4	34.4	34.4	34.4	34.4	34.4	34.4	34.4	34.4	34.4	34.4	34.4
Azerbaijan	29.17	29.17	29.17	29.17	29.17	29.17	29.17	29.17	29.17	29.17	29.17	29.17	29.17
Bahamas	35.18	35.18	35.18	35.18	35.18	35.18	35.18	35.18	35.18	35.18	35.18	35.18	35.18
Bahrain	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3
Bangladesh	25.5	25.5	25.5	25.5	25.5	25.5	25.5	25.5	25.5	25.5	25.5	25.5	25.5
Barbados	32.12	32.12	32.12	32.12	32.12	32.12	32.12	32.12	32.12	32.12	32.12	32.12	32.12
Belarus	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2
Belgium	40	40.01	40.02	40.02	40.03	40.04	40.05	40.06	40.06	40.07	40.08	40.09	40.1
Belize	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5
Benin	31	31	31	31	31	31	31	31	31	31	31	31	31
Bermuda													
Bhutan	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8
Bolivia	33	33	33	33	33	33	33	33	33	33	33	33	33
Bosnia and Herzegovina	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1
Botswana	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6
Brazil	32	32	32	32	32	32	32	32	32	32	32	32	32
British Virgin Islands													
Brunei	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2
Bulgaria	35.8	35.84	35.89	35.93	35.98	36.02	36.06	36.11	36.15	36.2	36.24	36.28	36.33
Burkina Faso	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2

Data: <http://www.gapminder.org/data/>



Preattentive Visual Attributes

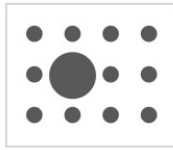
Form



Length



Width



Size



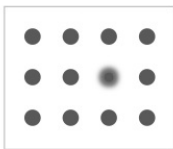
Orientation



Shape



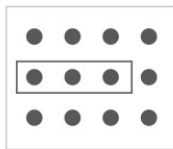
Curvature



Blur

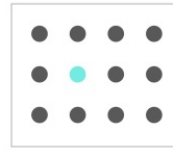


Added Shapes

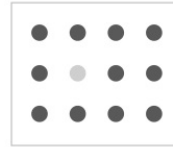


Enclosure

Color

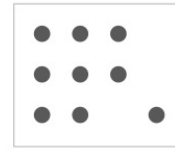


Hue

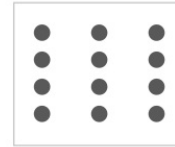


Intensity

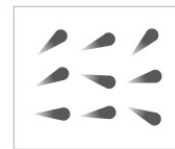
Spatial



Position



Grouping



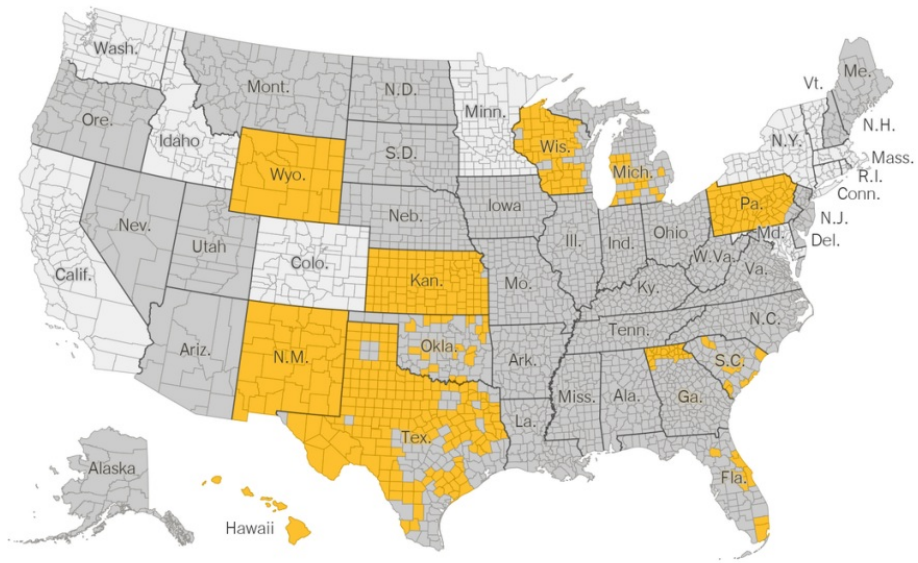
Motion

● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●



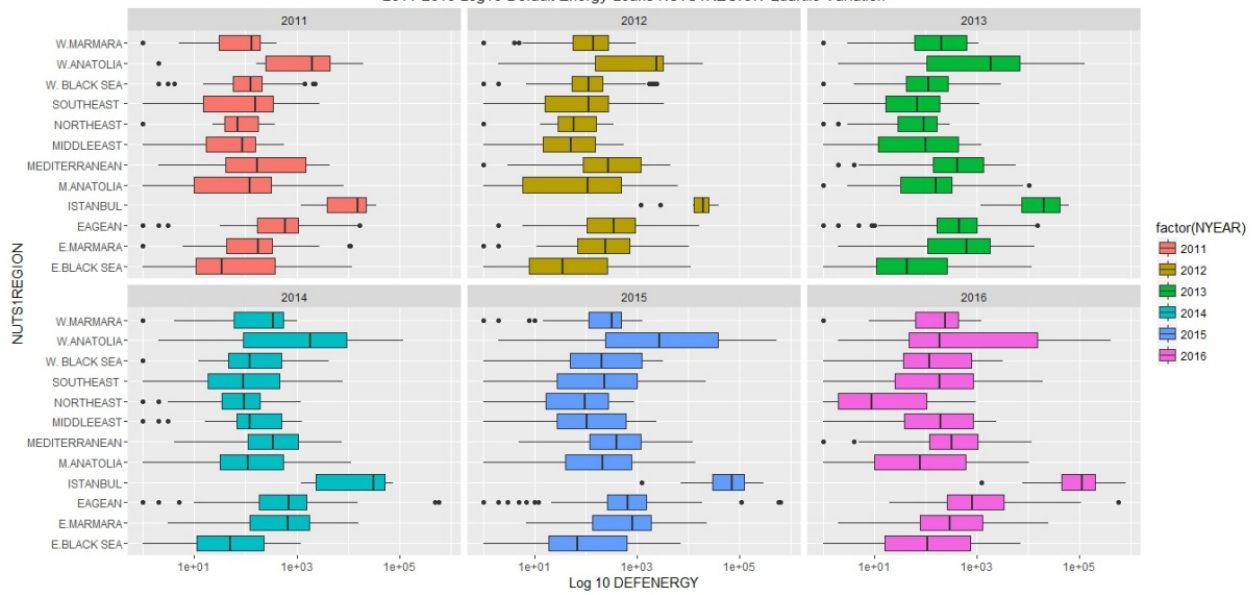


Journalism



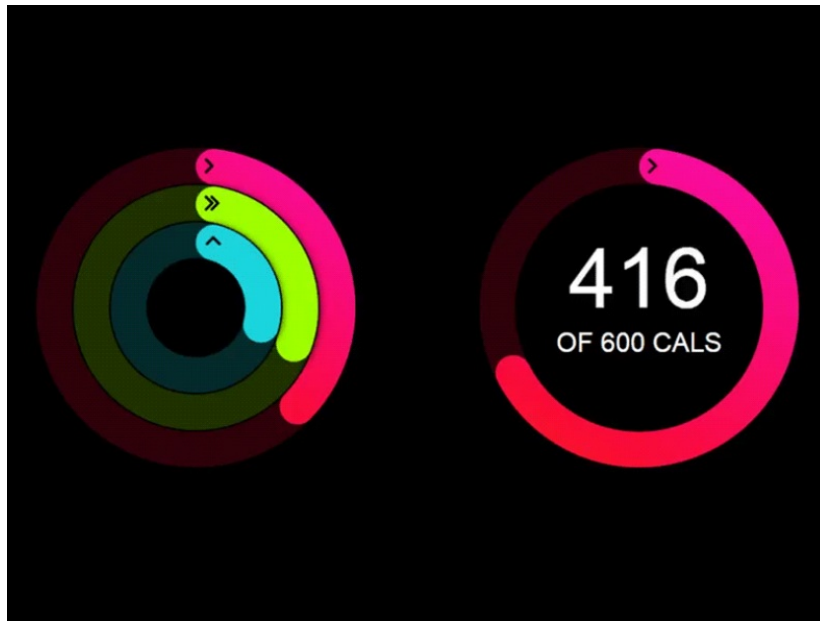
The New York Times Upshot

2011-2016 Log10 Default Energy Loans NUTS1REGION Quartile Variation



DataLab TR, LinkedIn

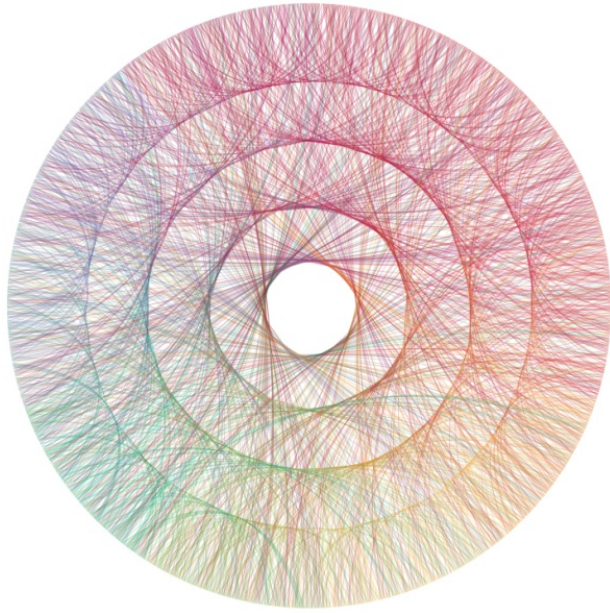
Apps



Apple Watch



Art



Art based on Pi, by Ken Flerlage

