

	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W
Country N	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981
中国	235,94689	222,80555	251,94822	295,63197	258,69557	269,45629	300,04059	353,11071	375,39057	400,78077	445,10279	501,21681	551,17141	617,48524	1048,5962	1209,1478	1395,0964	1568,5434	1779,7236	1977,6622	1966,9306	2088,0027
日本	89,520542	82,400533	70,909412	74,313643	65,498555	68,486778	74,324579	66,599532	91,427713	0	100,12333	122,63918	115,65453	131,88356	157,09037	160,14008	178,34182	155,40554	155,42233	156,73968	183,98315	194,80472
美国	0	0	0	0	0	0	0	0	0	0	2761,1668	3192,1326	3809,9814	5046,7551	6359,0776	6726,6339	6634,8569	76682,9538	9482,0429	11281,023	12138,308	10209,073
德国	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
法国	1334,6859	1428,06	1578,2845	1744,4601	1909,5461	2083,1631	2186,4748	2054	2536,0551	2752,0951	2527,0951	2319,0363	3884,5558	4996,763	5328,241	5545	6690,5738	8866,8169	7532,522	9294,5776	11719,623	12713,361
英国	1397,5948	1742,3587	1525,7759	1613,4569	1748,2818	1873,5768	1947,2058	17819,1581	7586	2100,6679	2347,5443	2649,8015	3030,4325	3426,2762	3665,8628	4299,7456	4138,1678	4681,9395	9382,7804	7621,10032	602,9599	3062
印度	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
印度尼西亚	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
日本	82,18366	85,354201	89,821756	101,126562	115,57319	119,31892	89,97300	109,75912	133,37495	132,53219	155,03044	164,20296	79,714355	79,17883	90,376711	131,02491	202,49541	233,11666	278,19667	333,69438	365,91584	364,9147
印度	475,31905	568,3940	647,70479	623,94748	613,688	628,51858	1085,1088	1085,1088	1085,1088	1085,1088	1085,1088	1085,1088	1085,1088	1085,1088	1085,1088	1085,1088	1085,1088	1085,1088	1085,1088	1085,1088	1085,1088	1085,1088
俄罗斯	158,2493	93,82649	106,14851	146,31434	123,60349	108,72213	123,37485	161,15993	198,4313	243,2241	279,30497	301,17657	324,19628	406,39883	355,9616	61,45606	834,13421	105,881405	8224,1783	6222,1751	4599,1383	4545
朝鲜	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
越南	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
瑞典	2214,003	2288,927	2468,964	2657,2025	2941,0489	3206,0992	3454,4129	3720,9268	3926,409	4234,1613	4747,3162	5132,7132	6116,067	1285,7331	2154,8089	4104,1017	307,10688	276,11458	6191,12620	519,14874	1674,7795	83,15886
美国	1214,3036	5629,3243	8431,3374	5152,373	5142,3827	5271,4126	3166,4336	4266,4668	4933,5032	1447,5234	2967,5699	3268,6108	4181,6726	395,7225	6194,1801	4567,8592	2535,9452	5765,10564	948,1674	128		

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W
Country N	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981
巴西	54.143	54.634	55.13	55.627	56.121	56.61	57.091	57.563	58.025	58.475	58.911	59.332	59.739	60.132	60.513	60.884	61.243	61.595	61.942	62.286	62.63	62.976
中国	43.725	44.051	44.783	45.972	47.592	49.549	51.696	53.847	55.843	57.603	59.085	60.303	61.344	62.281	63.134	63.915	64.631	65.278	65.857	66.377	66.844	67.26
德国	69.310024	69.50869	69.691537	69.85961	70.013707	70.151829	70.271415	70.37470	465998	70.550633	70.63978	70.742878	70.86771	016683	71.195415	71.401732	71.634146	71.883663	72.143293	72.408537	72.677902	72.95039
俄罗斯俄比	39.419	39.082	39.711	40.29	40.91	41.267	41.668	42.026	42.355	42.659	42.944	43.213	43.465	43.693	43.994	44.044	44.116	44.103	44.016	43.891	43.747	43.675
法国	69.868293	70.117073	70.314634	70.514634	70.663415	70.812195	70.960976	71.160976	71.309756	71.458537	71.658537	71.907317	72.107317	72.356098	72.604878	72.853659	73.102439	73.35122	73.602439	73.85122	74.05122	74.3
英国	71.126829	70.878049	70.926829	70.826829	71.62439	71.62439	71.573171	72.12439	71.72439	71.721951	71.973171	72.273171	72.12439	72.32439	72.52439	72.72439	72.77561	73.22439	73.17561	73.27561	73.67561	74.026829
印度尼西亚	46.664	47.276	47.877	48.468	49.051	49.629	50.208	50.789	51.374	51.963	52.553	53.14	53.72	54.288	54.843	55.386	55.92	56.448	56.971	57.488	57.995	58.489
印度	41.422	42.027	42.637	43.252	43.873	44.5	45.136	45.779	46.428	47.081	47.737	48.398	49.061	49.722	50.374	51.012	51.63	52.222	52.786	53.319	53.814	54.268
日本	67.666090	68.3168	69.04879	69.658049	70.132439	70.201951	70.996585	71.276585	71.61122	71.83878	71.950244	72.882927	73.506585	73.757561	74.393902	75.057317	75.456829	75.898293	76.038293	76.337561	76.091707	76.41439
大韩民国	55.415537	56.014976	56.512317	56.97061	57.440927	57.968293	58.575171	59.241463	59.94461	60.675024	62.153415	62.112195	63.009756	63.407317	63.804878	64.153659	64.502439	64.965	197561	65.546341	66.046341	66.546341
俄罗斯联邦	66.055293	66.597024	67.021415	67.339902	67.566612	67.718854	67.812512	67.860146	67.874341	67.867122	68.133659	68.376585	68.308537	68.294634	68.320244	67.723902	67.497561	67.376341	67.390976	67.11439	67.033902	67.263902
瑞典	73.00561	73.47439	73.350488	73.555366	73.733171	73.861707	74.078537	74.122439	73.972927	74.084878	74.649268	74.623902	74.718049	74.867317	74.980488	74.984634	74.969268	75.379756	75.469024	75.524146	75.740976	76.026098
美国	69.770732	70.270732	70.119512	69.917073	70.165854	70.214634	70.212195	70.560976	69.95122	70.507317	70.807317	71.107317	71.156098	71.356098	71.956098	72.604878	72.856098	73.256098	73.356098	73.804878	73.609756	74.009756
越南	59.039	59.72	60.387	61.02	61.581	61.963	62.037	61.767	61.186	60.383	59.563	58.98	58.826	59.203	60.112	61.446	63.01	64.547	65.859	66.865	67.542	67.942
世界	52.581916	53.075105	53.49242	54.017514	54.687504	55.346907	56.078453	56.783745	57.386244	57.991969	58.579728	59.110429	59.596477	60.047295	60.540634	60.985427	61.408775	61.832636	62.193394	62.555443	62.841716	63.182513
南非	48.406	48.777	49.142	49.509	49.828	50.284	50.705	51.149	51.615	52.106	52.62	53.157	53.713	54.281	54.856	55.428	55.99	56.538	57.071	57.59	58.107	58.637

如上面六个图片所展示的，我们使用的是近几十年大部分地区国家的人均耗电量、65岁以上人口占比、城镇人口占比、人口增长率、人均GDP、出生时预期寿命的相应数据。

其中数据中包括国家（列A）、对应年份（行1）、具体数据（列B~）。

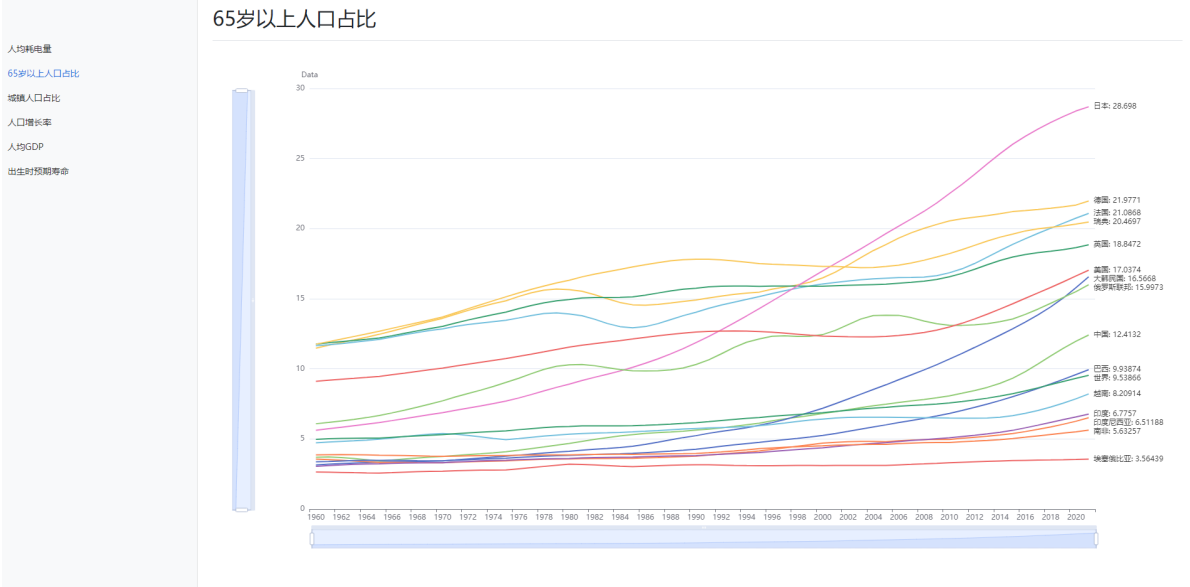
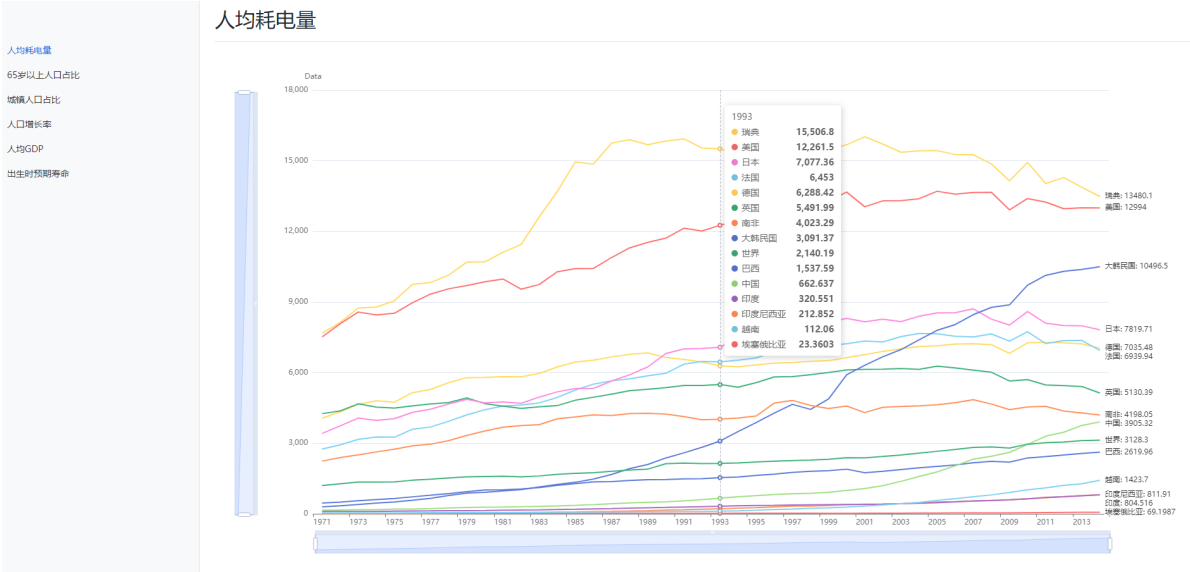
项目框架：

本项目使用html+js+css+echarts实现，整体有两个部分的功能：

line-race

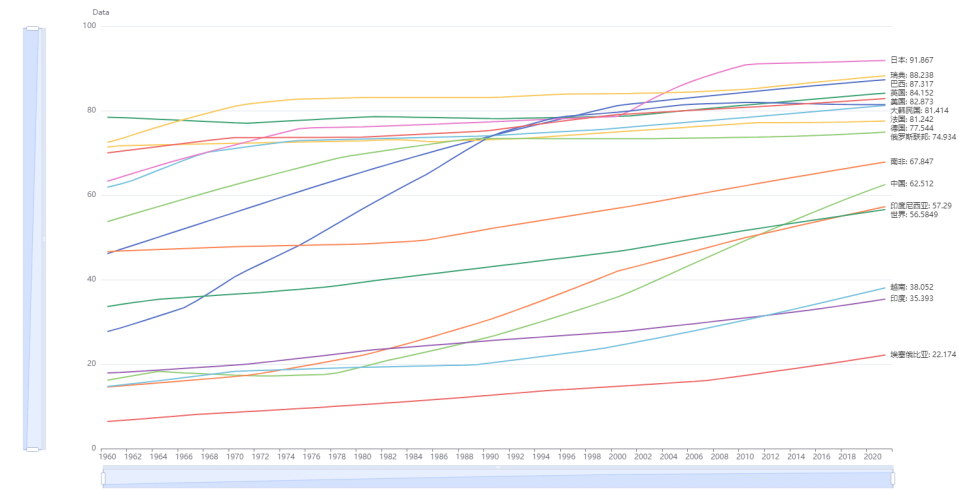
可视化面板可以分为两部分：

-
- 左边部分的显示表可以交互选择想知道的对应的数据在右边部分显现出来。
- 右边部分由对应主题和相关数据的折线可视化，其中在折线的末端可以看到对应地区国家和详细的数据，也可以通过鼠标放置来显示具体年份的对应数据。在左端和下端有对应的drag tag功能。



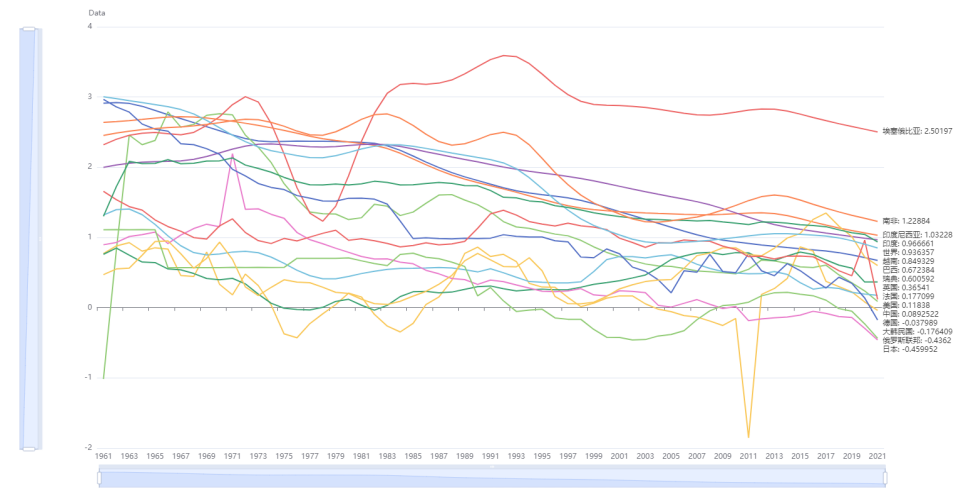
人均耗电量
65岁以上人口占比
城镇人口占比
人口增长率
人均GDP
出生时预期寿命

城镇人口占比



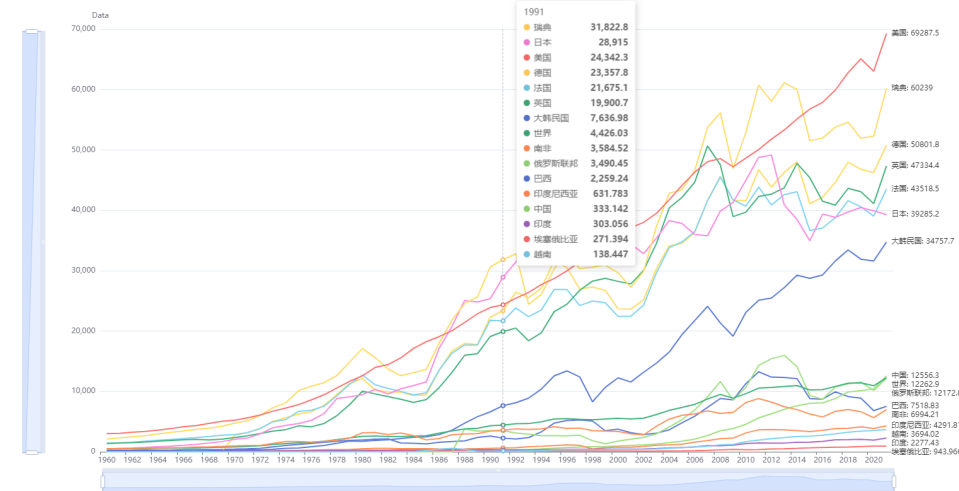
人均耗电量
65岁以上人口占比
城镇人口占比
人口增长率
人均GDP
出生时预期寿命

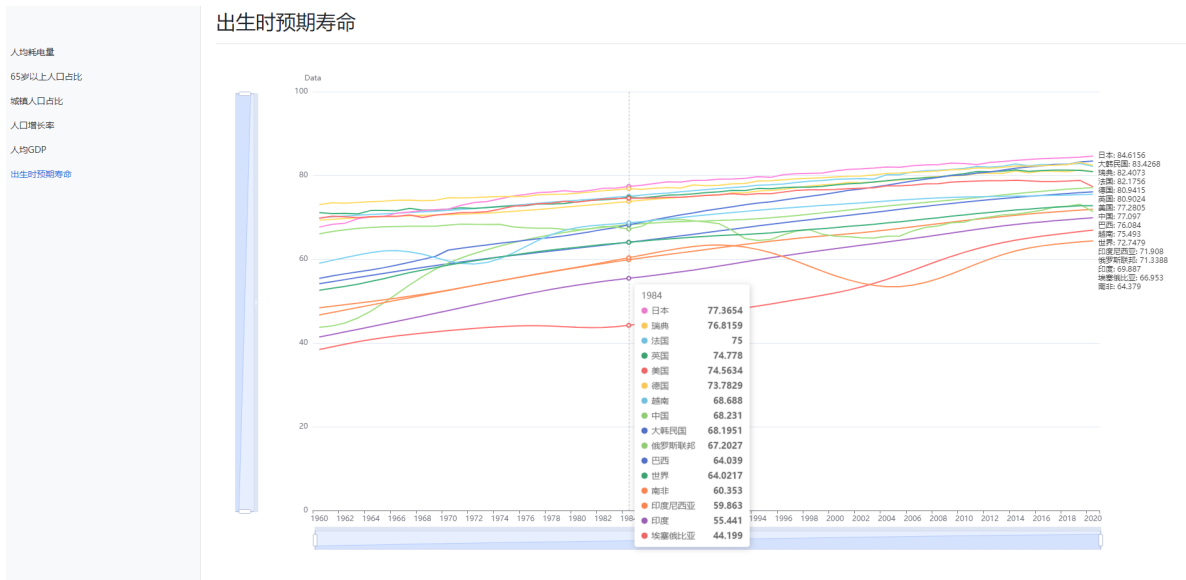
人口增长率



人均耗电量
65岁以上人口占比
城镇人口占比
人口增长率
人均GDP
出生时预期寿命

人均GDP



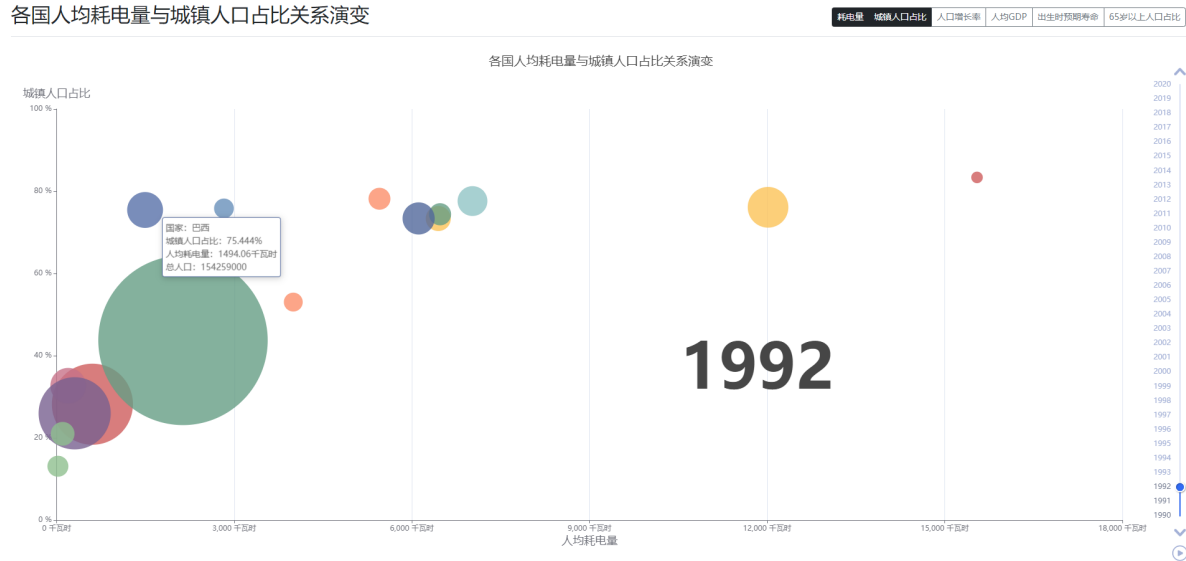


life-expectancy

下图选取了数据中最近30年也就是1990-2020年的样本数据

- 右上角的横栏交互选择可以选择其中两个来使得对应的X、Y轴对比，通过右边部分的年份自动增加和对应的需求暂停来逐年的对比关系演变。
- 对应的鼠标悬停也有对应地区国家的具体数据

各国人均耗电量与城镇人口占比关系演变



总结

使用此可视化面板，还可以对其他更具体的问题进行探索和分析，欢迎您带着您的问题进一步探索我们的可视化面板。