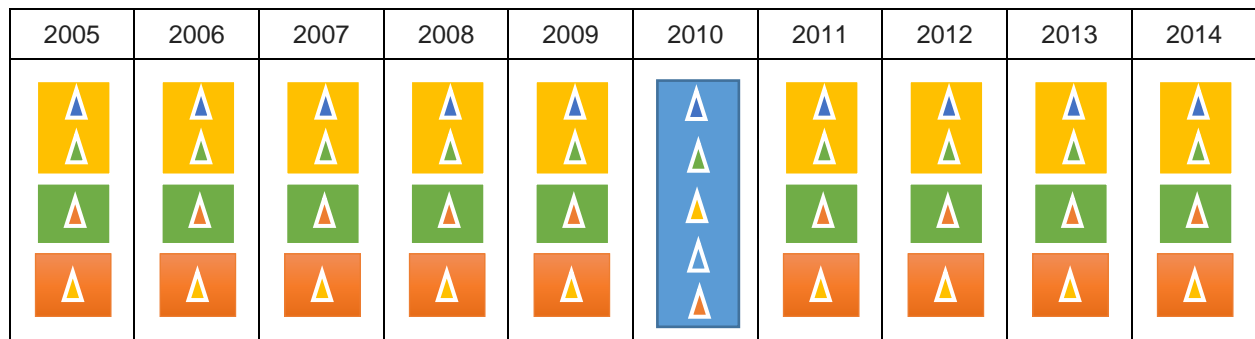


Artificial Data:

Inspiration:

At Census Bureau website, the data about [Population & Housing](#) is given in pdf format from 1790-2010 that requires OCR to extract data, a very good resource found that can extract the desired data over the time till 1920 [NHGIS Data Finder](#). But over the time period new variables are introduced in the census, so, it would be difficult to make data points on time series over multiple years i.e. we can backtrack only two variables "Total Population & Person by Sex" from 1920 to 2010. So, question arises how to arrange the data that can at least include all variable from the latest two census held in 2000 & 2010.

The Naïve Answer came in mind from the [Census 2010 History Overview](#), which announced the shortest census of history only considering 10 question in questionnaire related to name, gender, race etc and rest of data collection from the ACS; "ARTIFICIAL DATA". So, we can make data points over the years from the various surveys e.g. ACS, Economic Census, Business Dynamic Statistics etc. It would be clearer by considering the following figure.



Where Rectangle show the Census, ACS, Economic Census, Business Dynamic Statistics; Blue as Census, Yellow as ACS, Green as Economic Census and Orange as Business Dynamic Statistics. And triangle represents the variables under focus.

Data Variables:

[United States Census 2010](#) provides data products of census 2010, which contains Summary files, Demographic Profiles, Households and Families, The Asian Population, Housing characteristics etc. Some of data tables (summaries) of Census 2010 are extracted from the website and shown below the table No.1 with their reference files.

Considering three variables, I have searched in American fact finder and found the topic ids, shown below:

1. Asian Population
Key word: [B02011](#)
2. House hold by type:
Key word: [S1101](#)
3. Housing Units:
Key word: [B25001](#)

Table 1.

Asian Population: 2000 and 2010(For information on confidentiality protection, nonsampling error, and definitions, see www.census.gov/prod/cen2010/doc/pl94-171.pdf)

Race	2000		2010		Change, 2000 to 2010	
	Number	Percentage of total population	Number	Percentage of total population	Number	Percent
Total population	281,421,906	100.0	308,745,538	100.0	27,323,632	9.7
Asian alone or in combination	11,898,828	4.2	17,320,856	5.6	5,422,028	45.6
Asian alone	10,242,998	3.6	14,674,252	4.8	4,431,254	43.3
Asian in combination	1,655,830	0.6	2,646,604	0.9	990,774	59.8
Asian; White	868,395	0.3	1,623,234	0.5	754,839	86.9
Asian; Some Other Race	249,108	0.1	234,462	0.1	-14,646	-5.9
Asian; Black or African American	106,782	-	185,595	0.1	78,813	73.8
Asian; Native Hawaiian and Other Pacific Islander ..	138,802	-	165,690	0.1	26,888	19.4
Asian; White; Native Hawaiian and Other Pacific Islander	89,611	-	143,126	-	53,515	59.7
All other combinations including Asian	203,132	0.1	294,497	0.1	91,365	45.0
Not Asian alone or in combination	269,523,078	95.8	291,424,682	94.4	21,901,604	8.1

- Percentage rounds to 0.0.

Asian Population: <https://www.census.gov/prod/cen2010/briefs/c2010br-11.pdf>

Table 2.

Households by Type: 2000 and 2010(For information on confidentiality protection, nonsampling errors, and definitions, see www.census.gov/prod/cen2010/doc/sf1.pdf)

Household type	2000		2010		Change, 2000 to 2010	
	Number	Percent	Number	Percent	Number	Percent
Total households	105,480,101	100.0	116,716,292	100.0	11,236,191	10.7
Family household	71,787,347	68.1	77,538,296	66.4	5,750,949	8.0
Husband-wife households	54,493,232	51.7	56,510,377	48.4	2,017,145	3.7
With own children	24,835,505	23.5	23,588,268	20.2	-1,247,237	-5.0
Without own children	29,657,727	28.1	32,922,109	28.2	3,264,382	11.0
Female householder, no spouse present	12,900,103	12.2	15,250,349	13.1	2,350,246	18.2
With own children	7,561,874	7.2	8,365,912	7.2	804,038	10.6
Without own children	5,338,229	5.1	6,884,437	5.9	1,546,208	29.0
Male householder, no spouse present	4,394,012	4.2	5,777,570	5.0	1,383,558	31.5
With own children	2,190,989	2.1	2,789,424	2.4	598,435	27.3
Without own children	2,203,023	2.1	2,988,146	2.6	785,123	35.6
Nonfamily households	33,692,754	31.9	39,177,996	33.6	5,485,242	16.3
Male householder	15,556,103	14.7	18,459,253	15.8	2,903,150	18.7
Living alone	11,779,106	11.2	13,906,294	11.9	2,127,188	18.1
Not living alone	3,776,997	3.6	4,552,959	3.9	775,962	20.5
Female householder	18,136,651	17.2	20,718,743	17.8	2,582,092	14.2
Living alone	15,450,969	14.6	17,298,615	14.8	1,847,646	12.0
Not living alone	2,685,682	2.5	3,420,128	2.9	734,446	27.3
Unmarried couple households ¹	5,475,768	5.2	7,744,711	6.6	2,268,943	41.4
Opposite-sex partners	4,881,377	4.6	6,842,714	5.9	1,961,337	40.2
Same-sex partners ²	594,391	0.6	901,997	0.8	307,606	51.8
Summary File 1 counts	358,390	0.3	646,464	0.6	288,074	80.4
Preferred estimates						
Average household size	2.59	(X)	2.58	(X)	-0.01	(X)
Average family size	3.14	(X)	3.14	(X)	0.00	(X)

(X) Not applicable.

House hold by type : <https://www.census.gov/prod/cen2010/briefs/c2010br-14.pdf>

Table 1.

General Housing Characteristics for the United States, Regions, States, and Puerto Rico: 2000 and 2010(For information on confidentiality protection, nonsampling error, and definitions, see www.census.gov/prod/cen2010/doc/sf1.pdf)

Area	Total housing units in 2000	Housing units in 2010				Percent change, 2000 to 2010				
		Total	Percent vacant	Occupied	Percent owner-occupied	All housing units	Vacant units	Occupied units		
								Total	Owner	Renter
United States ...	115,904,641	131,704,730	11.4	116,716,292	65.1	13.6	43.8	10.7	8.8	14.2
REGION										
Northeast	22,180,440	23,647,636	10.3	21,215,415	62.2	6.6	28.4	4.6	4.4	5.0
Midwest	26,963,635	29,483,646	11.1	26,215,951	69.2	9.3	46.6	6.0	4.5	9.6
South	42,382,546	49,980,829	12.7	43,609,929	66.7	17.9	45.9	14.7	12.0	20.6
West	24,378,020	28,592,619	10.2	25,674,997	60.5	17.3	50.9	14.4	12.6	17.3
STATE										
Alabama	1,963,711	2,171,853	13.3	1,883,791	69.7	10.6	27.1	8.4	4.3	19.4
Alaska	260,978	306,967	15.9	258,058	63.1	17.6	24.2	16.5	17.5	14.7
Arizona	2,189,189	2,844,526	16.3	2,380,990	66.0	29.9	61.0	25.2	21.5	33.2
Arkansas	1,173,043	1,316,299	12.9	1,147,084	67.0	12.2	29.8	10.0	6.2	18.7
California	12,214,549	13,680,081	8.1	12,577,498	55.9	12.0	54.9	9.3	7.5	11.8
Colorado	1,808,037	2,212,898	10.8	1,972,868	65.5	22.4	60.2	19.0	15.9	25.4
Connecticut	1,385,975	1,487,891	7.9	1,371,087	67.5	7.4	38.5	5.3	6.4	3.2
Delaware	343,072	405,885	15.7	342,297	72.1	18.3	43.4	14.6	14.2	15.6
District of Columbia	274,845	296,719	10.1	266,707	42.0	8.0	13.2	7.4	10.7	5.1
Florida	7,302,947	8,989,580	17.5	7,420,802	67.4	23.1	62.6	17.1	12.5	27.7
Georgia	3,281,737	4,088,801	12.3	3,585,584	65.7	24.6	82.7	19.3	16.0	26.0
Hawaii	460,542	519,508	12.4	455,338	57.7	12.8	12.0	12.9	15.3	9.9
Idaho	527,824	667,796	13.2	579,408	69.9	26.5	51.9	23.4	19.1	34.6
Illinois	4,885,615	5,296,715	8.7	4,836,972	67.5	8.4	56.5	5.3	5.7	4.7
Indiana	2,532,319	2,795,541	10.5	2,502,154	69.9	10.4	49.7	7.1	4.7	13.0
Iowa	1,232,511	1,336,417	8.6	1,221,576	72.1	8.4	38.0	6.3	5.9	7.3

Housing Units: <https://www.census.gov/prod/cen2010/briefs/c2010br-07.pdf> s

Table No.1. Census 2010 Data Tables of variables.