

# The Battle of Neighborhoods

*Analyzing Suburbs to  
construct Parks in  
Canberra, Australia*



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**Report**

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# **Table of Contents**

Sl.No.	Topic	Page
1	Summary	2
2	Introduction	3
3	Project Idea	3
4	Methodology	4
5	Data Collection	4
6	Data Wrangling	5
7	Data Visualization	11
8	Map of Canberra	11
9	Map locating parks	12
10	Bar Chart of Population	13
11	Results	14
12	Map of Most Populated Suburb	16
13	Conclusion	18
14	Acknowledgement	19

# **Analyzing Suburbs to Construct a Park in Canberra, Australia**

## **Summary**

It turns out parks are a crucial part of any community. They have a significant impact on the development of children and the happiness of everyone in the neighborhood. Public parks are very necessary in cities. They serve as the lungs of the city body. People refresh themselves there in the morning, at noon and in the evening. Population is so congested in the lanes and streets of the colonies in the city that people hardly find a place to relax. All sorts of people, children, young and old go there for a walk, recreation as well as relaxation. Children in particular are attracted by the swings and get the space to run around. Young mothers take the babies to the park to get some fresh air. For the elderly, a park is a place where they can walk, sit and chat with their friends. Yoga classes in the parks are a scene in the mornings. People take exercises there. In the evening, parks are full of shouts and laughter of the children. People go to the park for picnics and recreation. Parks add beauty and greenery to the city. In crowded city, parks are the only place where people of all age can sit and relax and breathe fresh air. It is in the parks that one can feel close to the nature. Parks are a common feature of town planning. In this report we will go through Canberra's Suburbs to list all parks located in the city. We will also look into the population of the city, district wise. By the end we will be able to plan where we can construct a park.

# **Introduction**

**Canberra**, federal capital of the Commonwealth of **Australia**. Canberra lies on a plain at the foot of 6,200-foot (1,900-metre) spurs of the Australian Alps, enjoying warm summers and cool winters and receiving considerably less rainfall than the surrounding highlands. The city has been expanding, and its population has grown steadily. According to the Australian Bureau of Statistics (ABS), in June 2016 there were an estimated 403,468 people living in the ACT of which 134,492 (33.3%) were children and young people aged 0-24 years. Of these 49.2% were male and 50.8% were female.

Parks and playgrounds are a Canberra mother's best friend. When it's warm and sunny outside, there's no reason to stay home—especially with so many fantastic parks and playgrounds scattered around the city! And while it CAN be just a simple excursion, other times it can seem like an army operation to get everyone into the great outdoors for an extra-special adventure. You need a car that can fit two bikes, a scooter, food and drink for 10 people, the next door neighbor's kid and the dog in the car.

## **Project Idea**

This project will help in analyzing all the list of playgrounds present in the city of Canberra, Australia.

We will also look into the data of the population of all the Neighborhoods/Suburbs in Canberra.

The main objective of the project is to be able to construct a playground in the best suitable Suburb.

# **Methodology**

## **Data Collection**

I had extracted the data from various sources to find the existing playgrounds and the population of each district in Canberra, Australia.

Canberra Playground Data

<https://www.data.act.gov.au/Sport-and-Recreation/Town-And-District-Playgrounds/fwth-mr9q>

Canberra Suburb Data

<https://www.data.act.gov.au/People-and-Society/ACT-Population-Projections-by-Suburb-2015-2020-/kci6-ugxa>

We will also use Foursquare's API for the location

<https://foursquare.com/explore?mode=url&near=Canberra%2C%20ACT%2C%20Australia&nearGeoid=72057594040100453&q=Playground>

About Canberra <https://en.wikipedia.org/wiki/Canberra>

Division Boundaries

<https://actmapi-actgov.opendata.arcgis.com/datasets/act-division-boundaries/data>

For GPS Co-ordinates <https://www.gps-coordinates.net>

# Data Wrangling & Cleaning

## • Data file of Parks in Canberra

ASSET_ID	LOCATION	DIVISION_NAME	LATITUDE	LONGITUDE	Location_1
<b>Plgr492</b>	Garryowen Drive District Park	Acton	- 35.292273	149.101138	(-35.292273, 149.101138)
<b>Plgr1</b>	Paterson Street Neighbourhood Park	Ainslie	- 35.268805	149.141571	(-35.268805, 149.141571)
<b>Plgr475</b>	Bizant Street Neighbourhood Park	Amaroo	-35.17373	149.135224	(-35.17373, 149.135224)
<b>Plgr195</b>	Telopea Park	Barton	- 35.315086	149.137312	(-35.315086, 149.137312)
<b>Plgr533</b>	Townsend Place District Park	Belconnen	- 35.236067	149.074995	(-35.236067, 149.074995)
<b>Plgr130</b>	Diddams Close (West)	Belconnen	- 35.227204	149.071722	(-35.227204, 149.071722)
<b>Plgr134</b>	Macdermott Place District Park	Belconnen	- 35.226759	149.062799	(-35.226759, 149.062799)
<b>Plgr535</b>	Burgoyne Street Neighbourhood Park	Bonython	- 35.426476	149.071602	(-35.426476, 149.071602)
<b>Plgr363</b>	Tauchert Street Neighbourhood Park	Chapman	- 35.357472	149.045935	(-35.357472, 149.045935)
<b>Plgr372</b>	Chifley Place Neighbourhood Park	Chifley	- 35.352569	149.07665	(-35.352569, 149.07665)
<b>Plgr31</b>	Glebe Park Town Park	City	-35.28103	149.135988	(-35.28103, 149.135988)
<b>Plgr219</b>	Cremone Place Neighbourhood Park	Conder	- 35.464393	149.102991	(-35.464393, 149.102991)
<b>Plgr583</b>	Templeton Street Neighbourhood Park	Cook	- 35.258976	149.061965	(-35.258976, 149.061965)
<b>Plgr626</b>	Narden Street Central Community Park (Crip)	Crace	- 35.201686	149.102459	(-35.201686, 149.102459)
<b>Plgr10</b>	Hawdon Street Neighbourhood Park	Dickson	-35.25269	149.149211	(-35.25269, 149.149211)
<b>Plgr587</b>	Cnr Bonython And Melba Sts Neighbourhood Park	Downer	-35.2464	149.143293	(-35.2464, 149.143293)
<b>Plgr521</b>	James Harrison Street Neighbourhood Park	Dunlop	- 35.191296	149.017063	(-35.191296, 149.017063)
<b>Plgr443</b>	Levine Street Neighbourhood Park	Evatt	- 35.211351	149.064818	(-35.211351, 149.064818)
<b>Plgr162</b>	Read Place Pedestrian Parkland	Evatt	- 35.217985	149.067009	(-35.217985, 149.067009)
<b>Plgr228</b>	Coyne Street District Park	Fadden	- 35.411025	149.120551	(-35.411025, 149.120551)

<b>Plgr89</b>	Kesteven Street Florey Shopping Centre	Florey	-	149.054616	(-35.226588, 149.054616)
<b>Plgr619</b>	Pahlman Street Neighbourhood Park	Forde	-35.16829	149.146406	(-35.16829, 149.146406)
<b>Plgr594</b>	Neil Harris Crescent District Park	Forde	-	149.141334	(-35.172933, 149.141334)
<b>Plgr612</b>	Bruce Dittmar Central Community Park	Forde	-	149.145141	(-35.176043, 149.145141)
<b>Plgr655</b>	Kilmeny Close Community Park (Crip)	Franklin	-	149.143965	(-35.197607, 149.143965)
<b>Plgr81</b>	Shakespeare Crescent Neighbourhood Park	Fraser	-	149.040594	(-35.192024, 149.040594)
<b>Plgr278</b>	Mcgilvray Close District Park	Gordon	-	149.083775	(-35.456079, 149.083775)
<b>Plgr328</b>	Jeffries Street Neighbourhood Park	Gowrie	-	149.110533	(-35.414065, 149.110533)
<b>Plgr240</b>	De Little Circuit Central Community Playground	Greenway	-	149.072405	(-35.402803, 149.072405)
<b>Plgr673</b>	Limburg Way Neighbourhood Park	Greenway	-	149.072857	(-35.420221, 149.072857)
<b>Plgr679</b>	Mortimer Lewis Drive	Greenway	-	149.070955	(-35.407188, 149.070955)
<b>Plgr242</b>	Anketell Street	Greenway	-	149.065976	(-35.411067, 149.065976)
<b>Plgr546</b>	Wunderlich Street District Park	Gungahlin	-	149.130241	(-35.179247, 149.130241)
<b>Plgr525</b>	Gungahlin Central Linear Park	Gungahlin	-	149.134717	(-35.186478, 149.134717)
<b>Plgr14</b>	Tryon Street Neighbourhood Park	Hackett	-35.24946	149.165251	(-35.24946, 149.165251)
<b>Plgr445</b>	Hall Park Pedestrian Parkland	Hall	-	149.070198	(-35.171633, 149.070198)
<b>Plgr526</b>	Tanami Street (Nw) Neighbourhood Park	Harrison	-35.19816	149.157372	(-35.19816, 149.157372)
<b>Plgr493</b>	Hawker Shopping Centre	Hawker	-	149.043894	(-35.243443, 149.043894)
<b>Plgr357</b>	Stapylton Street Neighbourhood Park	Holder	-	149.044638	(-35.337209, 149.044638)
<b>Plgr584</b>	Beaurepaire Crescent Neighbourhood Park	Holt	-	149.012624	(-35.222235, 149.012624)
<b>Plgr345</b>	Dumolo Place Neighbourhood Park	Isaacs	-	149.111165	(-35.368328, 149.111165)
<b>Plgr580</b>	Summerland Circuit (North) Neighbourhood Park	Kambah	-	149.071252	(-35.385632, 149.071252)
<b>Plgr582</b>	Boddington Crescent (North) Neighbourhood Park	Kambah	-	149.052118	(-35.383301, 149.052118)
<b>Plgr305</b>	Springbett Street District Park	Kambah	-	149.063422	(-35.392299, 149.063422)
<b>Plgr500</b>	Sandalwood Street Neighbourhood Park	Kingston	-	149.152743	(-35.316803, 149.152743)
<b>Plgr98</b>	Florey Drive District Park	Latham	-	149.028095	(-35.212932, 149.028095)

			35.212932		149.028095)
<b>Plgr669</b>	Wanderlight Avenue Neighbourhood Park	Lawson	-	149.091726	(-35.229364,
			35.229364		149.091726)
<b>Plgr20</b>	Cossington Smith Crescent Pedestrian Parkland	Lyneham	-35.24085	149.124028	(-35.24085,
					149.124028)
<b>Plgr327</b>	Bayly Place Neighbourhood Park	Macarthur	-	149.128364	(-35.408236,
			35.408236		149.128364)
<b>Plgr43</b>	Jamison Centre	Macquarie	-	149.071527	(-35.253349,
			35.253349		149.071527)
<b>Plgr405</b>	Wilkins Street Neighbourhood Park	Mawson	-	149.098561	(-35.370295,
			35.370295		149.098561)
<b>Plgr142</b>	Scarlett Street Neighbourhood Park	Melba	-	149.053432	(-35.211514,
			35.211514		149.053432)
<b>Plgr676</b>	Bon Scott Crip Park	Moncrieff	-	149.120912	(-35.155681,
			35.155681		149.120912)
<b>Plgr189</b>	Carnegie Crescent Pedestrian Parkland	Narrabundah	-	149.13783	(-35.337696,
			35.337696		149.13783)
<b>Plgr480</b>	Paul Coe Crescent Road Median	Ngunnawal	-35.17467	149.1198	(-35.17467,
					149.1198)
<b>Plgr187</b>	Railway Street Pedestrian Parkland	Oaks Estate	-	149.227519	(-35.341973,
			35.341973		149.227519)
<b>Plgr178</b>	Finn Street Neighbourhood Park	O'Connor	-	149.118359	(-35.260888,
			35.260888		149.118359)
<b>Plgr404</b>	Culgoa Circuit Neighbourhood Park	O'Malley	-	149.106404	(-35.355149,
			35.355149		149.106404)
<b>Plgr451</b>	Kosciuszko Avenue Neighbourhood Park	Palmerston	-	149.119068	(-35.197305,
			35.197305		149.119068)
<b>Plgr381</b>	Launceston St District Park	Phillip	-	149.091369	(-35.340958,
			35.340958		149.091369)
<b>Plgr207</b>	Golden Grove Neighbourhood Park	Red Hill	-	149.126168	(-35.335927,
			35.335927		149.126168)
<b>Plgr185</b>	Geerilong Gardens Neighbourhood Park	Reid	-	149.143688	(-35.283076,
			35.283076		149.143688)
<b>Plgr590</b>	Rivett Place Neighbourhood Park	Rivett	-	149.038108	(-35.347728,
			35.347728		149.038108)
<b>Plgr116</b>	Hancock Street Pedestrian Parkland	Spence	-	149.064286	(-35.201658,
			35.201658		149.064286)
<b>Plgr383</b>	Bunbury Street Neighbourhood Park	Stirling	-	149.052184	(-35.347383,
			35.347383		149.052184)
<b>Plgr680</b>	Sutherland Crescent Neighbourhood Park	Taylor	-	149.108411	(-35.151063,
			35.151063		149.108411)
<b>Plgr674</b>	Bettong Avenue Neighbourhood Park	Throsby	-	149.161994	(-35.187918,
			35.187918		149.161994)
<b>Plgr398</b>	Torrens Place Pedestrian Parkland	Torrens	-	149.087985	(-35.373128,
			35.373128		149.087985)
<b>Plgr172</b>	Condamine Street Neighbourhood Park	Turner	-	149.123258	(-35.267364,
			35.267364		149.123258)
<b>Plgr271</b>	Sangster Place Shopping Centre	Wanniassa	-	149.085639	(-35.390616,
			35.390616		149.085639)
<b>Plgr588</b>	Hilder Street Neighbourhood Park	Weston	-	149.055067	(-35.336942,
			35.336942		149.055067)



<b>Plgr211</b>	Weston Park District Park(east)	Yarralumla	-	149.089526	(-35.291717,
			35.291717		149.089526)
<b>Plgr202</b>	Mueller Street Neighbourhood Park	Yarralumla	-	149.100725	(-35.307108,
			35.307108		149.100725)

## • Data file of Population in each Suburb of Canberra

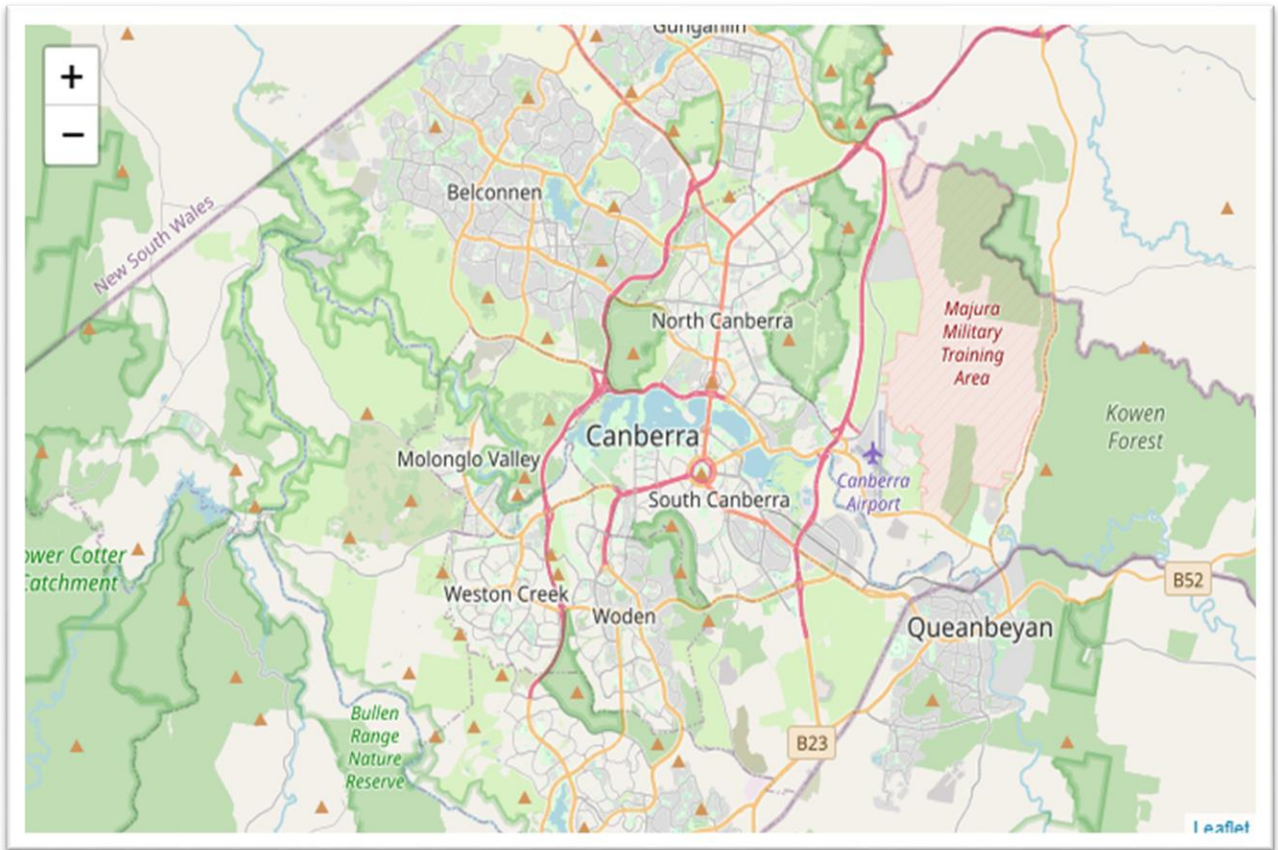
SUBURB	FEMALES (KIDS)	FEMALES (TEENS)	FEMALES (ADULTS)	TOTAL FEMALES	MALES (KIDS)	MALES (TEENS)	MALE (ADULTS)	TOTAL MALES	TOTAL
<b>ACT East</b>	33	32	283	348	47	42	426	515	863
<b>ACT South West</b>	1033	223	4259	5515	1028	220	4337	5585	11100
<b>Acton</b>	47	228	902	1177	69	222	1020	1311	2488
<b>Ainslie</b>	418	190	2206	2814	380	187	1982	2549	5363
<b>Amaroo</b>	694	312	2207	3213	568	314	2010	2892	6105
<b>Aranda</b>	242	114	949	1305	268	93	836	1197	2502
<b>Banks</b>	498	210	1694	2402	535	217	1625	2377	4779
<b>Belconnen</b>	291	145	2892	3328	382	160	3105	3647	6975
<b>Bonner</b>	940	246	1857	3043	1125	234	1689	3048	6091
<b>Bonython</b>	295	158	1356	1809	275	159	1304	1738	3547
<b>Braddon</b>	166	131	2730	3027	206	152	3167	3525	6552
<b>Bruce</b>	434	320	3489	4243	444	341	3308	4093	8336
<b>Calwell</b>	474	247	2093	2814	481	260	1934	2675	5489
<b>Campbell</b>	328	345	1874	2547	413	509	2825	3747	6294
<b>Casey</b>	896	178	1929	3003	929	248	1917	3094	6097
<b>Chapman</b>	175	107	940	1222	222	121	892	1235	2457
<b>Charnwood</b>	316	119	1123	1558	318	105	1031	1454	3012
<b>Chifley</b>	253	131	1003	1387	280	128	967	1375	2762
<b>Chisholm</b>	505	267	1844	2616	516	245	1692	2453	5069
<b>Civic</b>	56	226	1868	2150	63	222	1996	2281	4431
<b>Conder</b>	398	198	1820	2416	431	225	1802	2458	4874
<b>Cook</b>	231	102	1127	1460	250	111	912	1273	2733
<b>Crace</b>	689	170	1954	2813	528	135	1741	2404	5217
<b>Curtin</b>	411	274	2093	2778	364	260	1873	2497	5275
<b>Deakin</b>	175	180	1111	1466	167	145	887	1199	2665
<b>Dickson</b>	187	104	974	1265	203	105	1011	1319	2584
<b>Downer</b>	240	165	1517	1922	282	149	1475	1906	3828
<b>Duffy</b>	231	195	1030	1456	250	220	941	1411	2867
<b>Dunlop</b>	763	319	2704	3786	779	356	2594	3729	7515
<b>Evatt</b>	402	232	2001	2635	487	257	1910	2654	5289
<b>Fadden</b>	210	136	1141	1487	188	144	1129	1461	2948
<b>Farrer</b>	289	189	1278	1756	271	224	1137	1632	3388

<b>Fisher</b>	272	111	1099	1482	252	90	928	1270	2752
<b>Florey</b>	347	211	2018	2576	367	197	1776	2340	4916
<b>Flynn</b>	239	179	1264	1682	238	198	1262	1698	3380
<b>Forde</b>	669	306	1531	2506	719	301	1573	2593	5099
<b>Forrest</b>	124	56	669	849	117	69	654	840	1689
<b>Franklin</b>	786	262	2644	3692	868	310	2728	3906	7598
<b>Fraser</b>	202	79	742	1023	220	99	777	1096	2119
<b>Garran</b>	238	143	1351	1732	257	169	1296	1722	3454
<b>Gilmore</b>	208	137	974	1319	251	130	946	1327	2646
<b>Giralang</b>	320	91	1223	1634	394	91	1223	1708	3342
<b>Gooromon</b>	0	0	3	3	0	0	1	1	4
<b>Gordon</b>	575	377	2865	3817	629	383	2678	3690	7507
<b>Gowrie</b>	233	107	1154	1494	278	109	1024	1411	2905
<b>Greenway</b>	123	64	928	1115	158	37	869	1064	2179
<b>Griffith</b>	258	167	1770	2195	256	174	1849	2279	4474
<b>Gungahlin East</b>	153	34	647	834	152	35	656	843	1677
<b>Gungahlin TC</b>	503	211	2166	2880	588	216	2243	3047	5927
<b>Gungahlin West</b>	523	121	2116	2760	517	117	2177	2811	5571
<b>Hackett</b>	231	114	1188	1533	216	133	920	1269	2802
<b>Hall</b>	17	21	133	171	19	19	130	168	339
<b>Harrison</b>	1331	430	3258	5019	1255	443	3124	4822	9841
<b>Hawker</b>	205	125	1103	1433	170	124	1081	1375	2808
<b>Higgins</b>	293	127	992	1412	328	118	1037	1483	2895
<b>Holder</b>	183	88	917	1188	223	113	855	1191	2379
<b>Holt</b>	426	205	1938	2569	424	219	1707	2350	4919
<b>Hughes</b>	270	127	1085	1482	258	105	1048	1411	2893
<b>Hume</b>	2	1	29	32	0	1	287	288	320
<b>Isaacs</b>	175	102	892	1169	179	82	842	1103	2272
<b>Isabella Plains</b>	382	192	1619	2193	379	206	1531	2116	4309
<b>Kaleen</b>	523	308	2816	3647	547	332	2921	3800	7447
<b>Kambah</b>	1251	622	5429	7302	1222	676	5210	7108	14410
<b>Kingston-Barton</b>	275	94	2880	3249	267	110	2737	3114	6363
<b>Kowen</b>	2	0	15	17	6	1	16	23	40
<b>Lake Burley Griffin</b>	0	0	0	0	0	0	0	0	0
<b>Latham</b>	311	97	1268	1676	288	91	1174	1553	3229
<b>Lawson</b>	200	44	823	1067	197	44	837	1078	2145
<b>Lyneham</b>	293	158	2198	2649	314	138	2182	2634	5283
<b>Lyons</b>	274	107	1269	1650	280	144	1315	1739	3389
<b>Macarthur</b>	108	37	476	621	111	72	581	764	1385
<b>Macgregor</b>	830	252	2432	3514	799	273	2326	3398	6912
<b>Macquarie</b>	216	74	1160	1450	258	92	1089	1439	2889

<b>Majura</b>	12	13	80	105	24	9	115	148	253
<b>Mawson</b>	142	103	1256	1501	177	106	1235	1518	3019
<b>McKellar</b>	219	158	1122	1499	229	137	1013	1379	2878
<b>Melba</b>	306	114	1133	1553	309	93	1126	1528	3081
<b>Mitchell</b>	0	0	5	5	0	0	4	4	9
<b>Molonglo</b>	174	38	733	945	175	39	752	966	1911
<b>Monash</b>	325	203	2078	2606	372	226	1975	2573	5179
<b>Mount Taylor</b>	1	0	0	1	0	0	2	2	3
<b>Namadgi</b>	2	1	12	15	1	1	14	16	31
<b>Narrabundah</b>	534	269	2507	3310	523	262	2368	3153	6463
<b>Ngunnawal</b>	1110	476	4192	5778	1245	498	3962	5705	11483
<b>Nicholls</b>	457	374	2475	3306	508	419	2389	3316	6622
<b>O'Connor</b>	442	234	2284	2960	457	235	2166	2858	5818
<b>O'Malley</b>	105	77	335	517	89	81	313	483	1000
<b>Oxley</b>	90	101	639	830	101	121	630	852	1682
<b>Page</b>	206	92	1245	1543	251	105	996	1352	2895
<b>Palmerston</b>	440	200	2183	2823	482	219	1972	2673	5496
<b>Parkes</b>	0	0	0	0	0	0	0	0	0
<b>Pearce</b>	168	65	933	1166	194	92	919	1205	2371
<b>Phillip</b>	153	47	1157	1357	163	41	1093	1297	2654
<b>Red Hill</b>	263	224	1096	1583	242	234	1151	1627	3210
<b>Reid</b>	70	78	769	917	94	112	816	1022	1939
<b>Richardson</b>	284	108	1056	1448	290	99	983	1372	2820
<b>Rivett</b>	222	84	1082	1388	246	92	970	1308	2696
<b>Scullin</b>	271	84	999	1354	296	81	1094	1471	2825
<b>Spence</b>	198	100	960	1258	241	123	871	1235	2493
<b>Stirling</b>	119	67	769	955	148	87	686	921	1876
<b>Theodore</b>	357	186	1302	1845	380	165	1301	1846	3691
<b>Torrens</b>	183	104	800	1087	167	128	692	987	2074
<b>Tuggeranong</b>	3	0	11	14	0	1	16	17	31
<b>Turner</b>	126	86	1894	2106	141	64	2062	2267	4373
<b>Wanniassa</b>	596	308	2706	3610	628	355	2603	3586	7196
<b>Waramanga</b>	195	88	798	1081	246	102	744	1092	2173
<b>Watson</b>	626	235	2660	3521	647	262	2517	3426	6947
<b>Weetangera</b>	205	108	955	1268	205	125	907	1237	2505
<b>Weston</b>	274	77	1320	1671	357	132	1251	1740	3411
<b>Yarralumla</b>	218	160	1089	1467	203	149	935	1287	2754

# Data Visualization

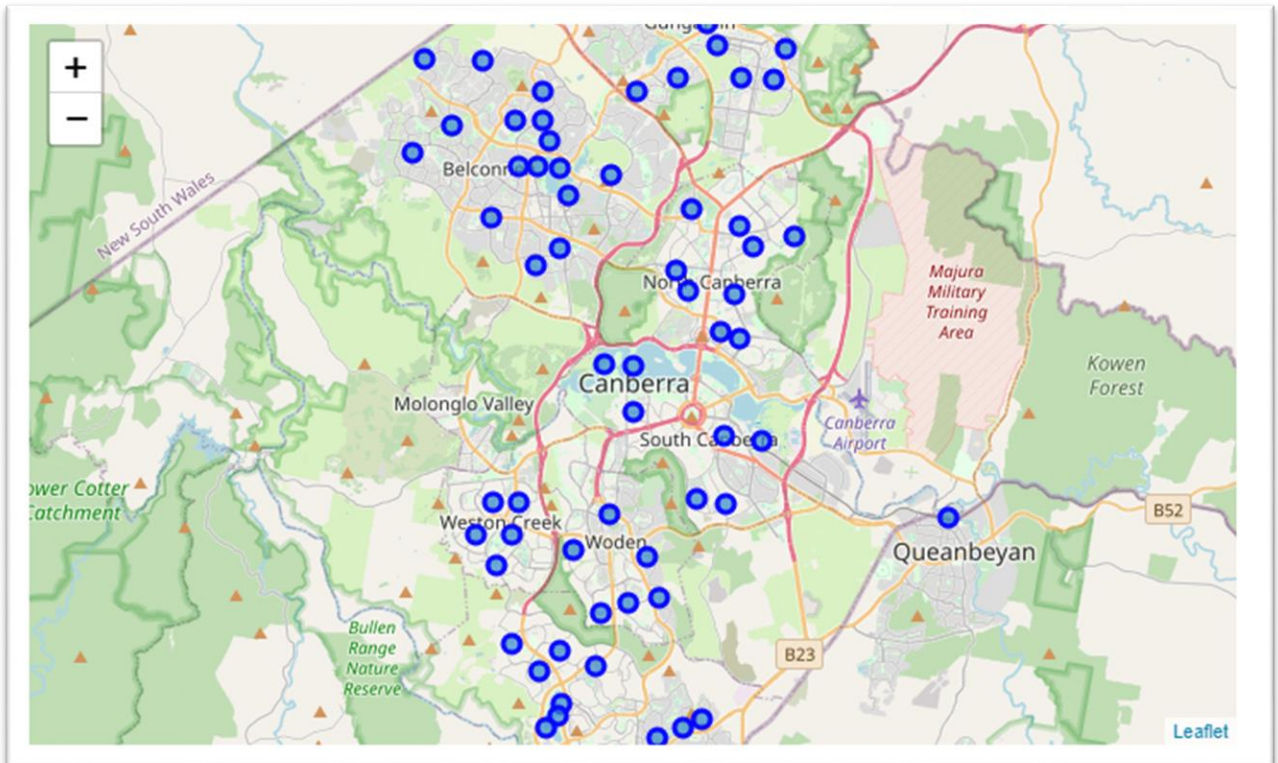
- Map of Canberra



Canberra lies on a plain at the foot of 6,200-foot (1,900-metre) spurs of the Australian Alps, enjoying warm summers and cool winters and receiving considerably less rainfall than the surrounding highlands. The city has been expanding, and its population has grown steadily.

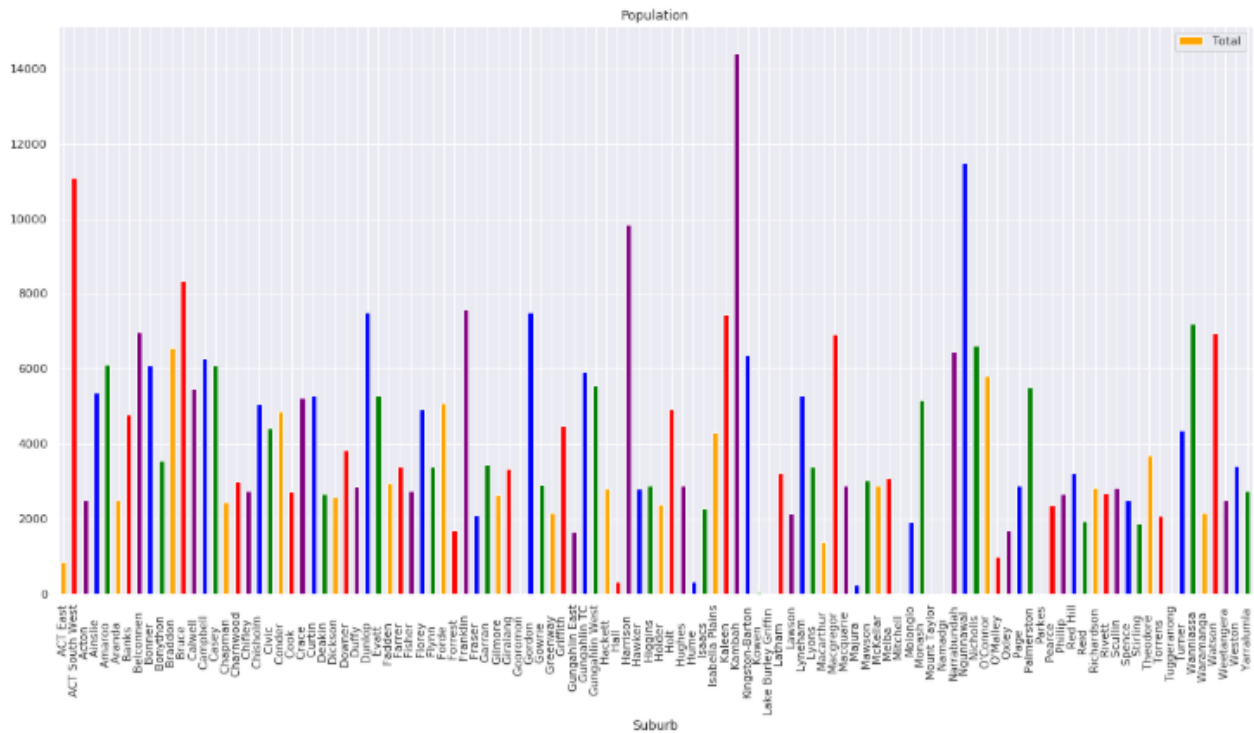
This map was taken from Foursquare's API by entering the address in the jupyter labs.

- **Map Locating all the Parks in Canberra**



From the Data file of Parks in Canberra, Australia, was able to build a map of the city and mark the Playgrounds' locations with the help of Foursquare's API.

- **Bar Chart of Population in each Suburb of Canberra**



Here is a colorful Bar Diagram showing the population of every Suburb in Canberra.

It was made from the Data File of Population of each Suburb of Canberra.



# **Results**

As our main objective is to find a Suburb in Canberra which doesn't have any Park and comes in top most populated Suburb. We will extract the details of top 20 most populated Suburbs.

- Kambah
- Ngunnawal
- ACT South West
- Harrison
- Bruce
- Franklin
- Dunlop
- Gordon
- Kaleen
- Wanniasa
- Belconnen
- Watson
- Macgregor
- Nicholls
- Braddon
- Narrabundah
- Kingston-Barton
- Campbell
- Amaroo
- Casey

Now we need to mark these locations on the map. The coordinates of these locations were manually filled in the Data File.

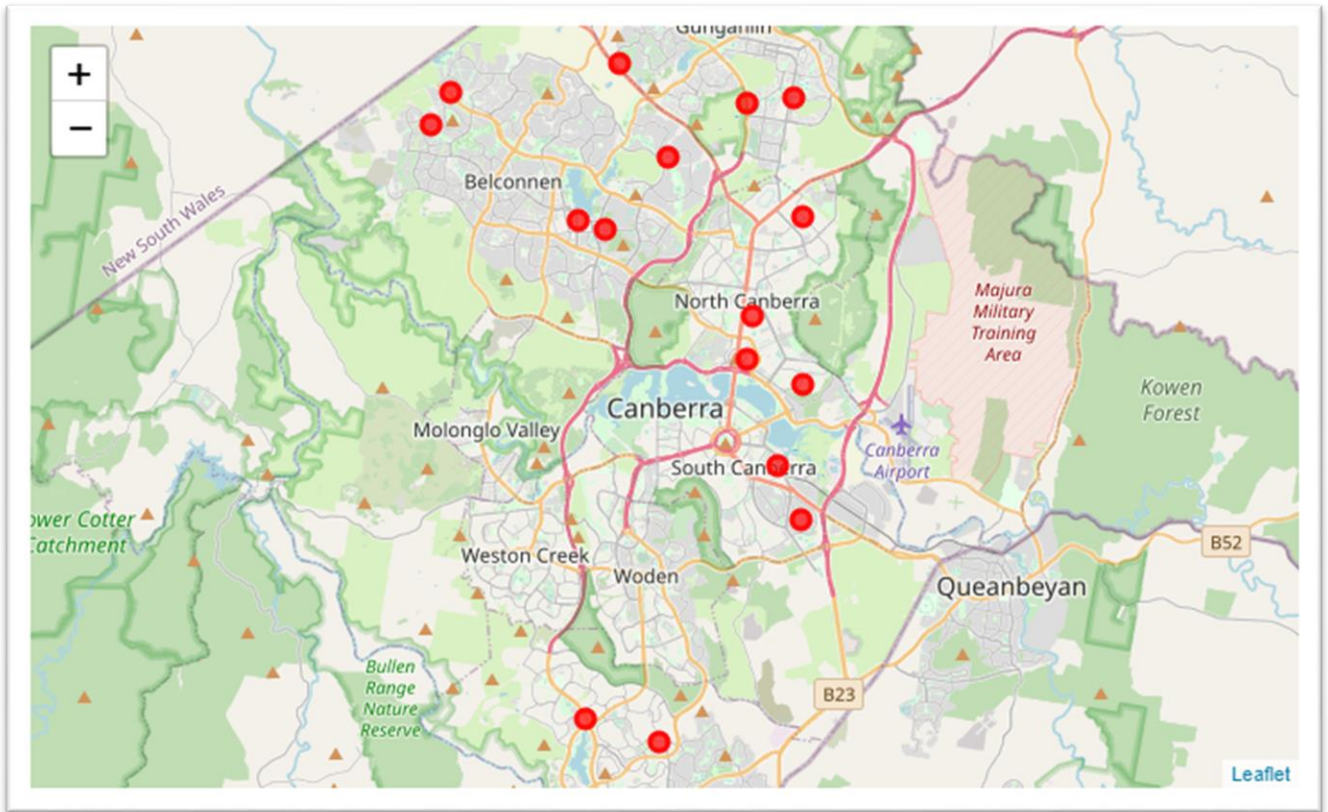
- **Data file of Most Populated Suburb of Canberra**

Suburb	Latitude	Longitude
Kambah	-35.3948	149.0709
Ngunnawal	-35.1701	149.1102
ACT South West	-35.2826	149.1323
Harrison	-35.2013	149.1504
Bruce	-35.2425	149.0783
Franklin	-35.2027	149.1329
Dunlop	-35.1996	149.0194
Gordon	-35.4504	149.0839
Kaleen	-35.2197	149.1025
Wanniassa	-35.4017	149.0988
Belconnen	-35.2393	149.0682
Watson	-35.2384	149.1538
Macgregor	-35.21	149.0118
Nicholls	-35.1908	149.0838
Braddon	-35.2694	149.1347
Narrabundah	-35.3325	149.1531
Kingston-Barton	-35.3154	149.1442
Campbell	-35.2902	149.1538
Amaroo	-35.173	149.1228
Casey	-35.1713	149.0979

Now we need to plot these locations in the map



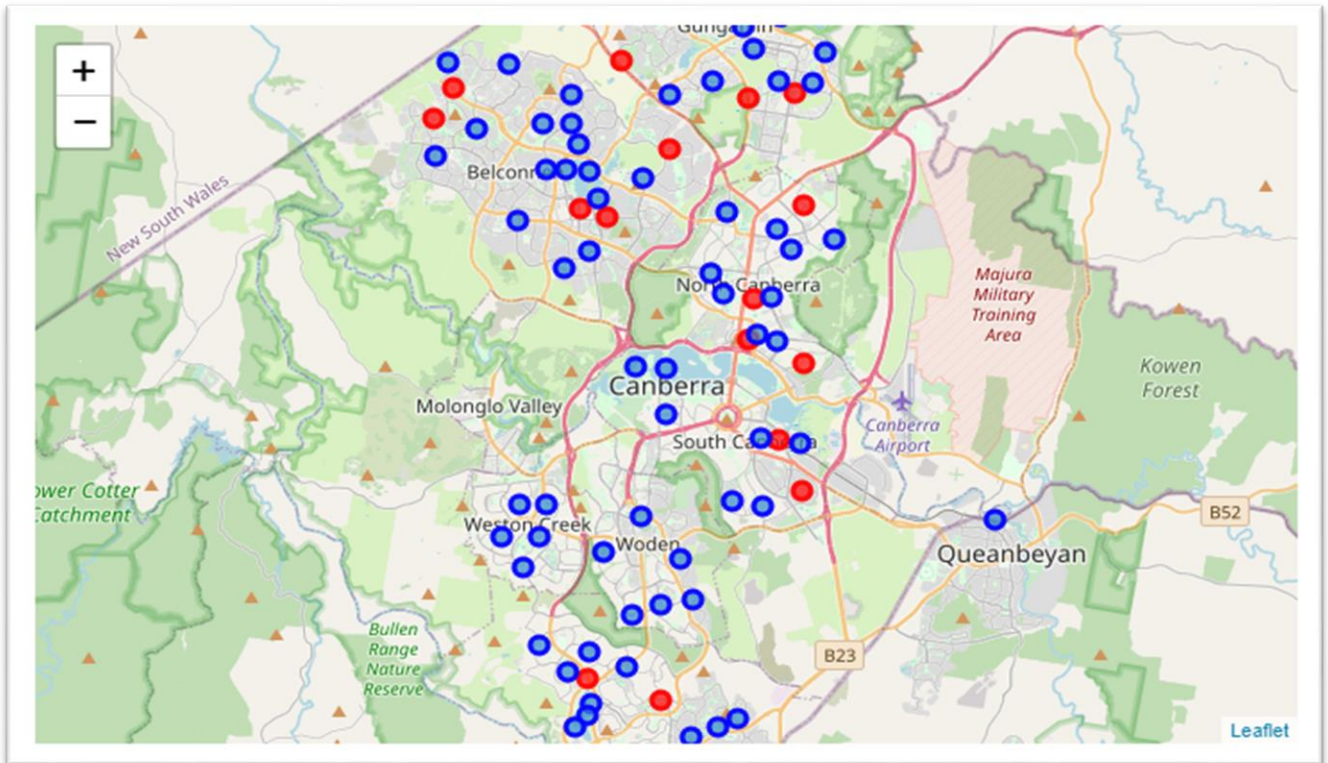
- **Map of Most Populated Suburb**



With the help of above Dataset, marked the locations of the top 20 most populated Suburbs in the city.

# Conclusion

## • Combining the Maps



By looking closely in the map we can see 10 out of 20 most populated Suburbs don't have parks. Those Suburbs are:

- Wanniasa
- Narrabundah
- Nicholls
- Macgregor
- Kaleen
- Casey
- Campbell
- Braddon
- Watson
- Ngunnawal

Hence we can construct Parks in these areas. Making it easier for the citizens to go out for picnics with kids running around, stay fit by jogging or working out and relax after a hard day at work.

# Acknowledgement

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*The End!*

**Thank You!**