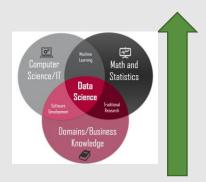


Introduction





New pub in Edinburgh



Edinburgh



The steps bar In Glasgow



moving 29/05/2020

Data set





Venues data

Geospace data

Postcode district •	Post town •	Coverage				
EH1	EDINBURGH	Mostly consists of Edinburgh's Old Town. Also hosts the old GPO building (at EH1 1AA) and the areas immediately to the north of this are also included, that is St. James Centre and the areas down Leith Street and Broughton Street.				
EH2	EDINBURGH	The New Town and central commercial area of Edinburgh which includes Princes Street.				
EH3	EDINBURGH	An odd shaped area surrounding EH1 and EH2 to the north, west and south. It can be divided into three distinct areas: • The New Town area, north of Queen Street and northwards to Stockbridge. • The West End, including some of Edinburgh's financial district • The Tollcross and Fountainbridge areas.				
EH4	EDINBURGH	Radiates from the older and more central areas out to the suburban areas added to them, as the city grew outwards during the 20th century. EH4, then, branches out from Dean Village and Comely Bank along a corridor centred on the A90 as far as Barnton and Cramond. Central to this area is the Sainsbury's in Craigleith Retail Park adjacent to the A90.				
EH5	EDINBURGH	Based on a village formerly separate from the city; in this case, Granton on the Firth of Forth. EH5 extends inwards from the coast to Ferry Road.				
EH6	EDINBURGH	Covers Leith, as well as Newhaven bordering it on the west.				
EH7	EDINBURGH	The inner city area between central Edinburgh and Leith, and radiates out to Restating and Craigentinny.				
EH8	EDINBURGH	The inner city Southside, Newington and Canongate areas, in the west of the postcode area. It spreads eastwards around Holyrood Park to take in areas like Abbeyhill and Mountcastle; being in east Edinburgh these areas have no obvious connection with the Southside. However the postcode effectively takes in the area surrounding Holyrood Park.				
EH9	EDINBURGH	The inner city, Marchmont and Grange, Blackford and around Minto Street, including Causewayside.				
EH10	EDINBURGH	A corridor along the A702 from Bruntsfield, through Morningside as far as Fairmilehead.	City of Edinburgh, Midlothian			
EH11	EDINBURGH	A corridor (rather thin in shape) along the A71 from Haymarket Station, through Gorgie and Stenhouse to Sighthill and the Calders.				
EH12	EDINBURGH	A corridor along the A8 from Haymarket through Murrayfield and Corstorphine as far as the Gyle.				
EH13	EDINBURGH	Based on the previously separate village of Colinton, and including Oxgangs.				
EH14	BALERNO, CURRIE, EDINBURGH, JUNIPER GREEN	A corridor in south-west Edinburgh starting at Slateford, through Longstone, Wester Hailes, Juniper Green, Currie and on to Balerno.				
EH15	EDINBURGH	Based on Portobello and Duddingston, formerly separate settlements to Edinburgh.				
EH16	EDINBURGH	Based on the formerly separate village of Liberton. It extends north and north-east to Cameron Toll, Craigmillar and Niddrie.				
EH17	EDINBURGH	Based on the formerly separate village of Gilmerton, taking in Moredun and extending westwards as far as Mortonhall.				
EH28	NEWBRIDGE	Newbridge, Ratho	City of Edinburgh Council			
EH29	KIRKLISTON	Kirkliston	City of Edinburgh Council			
EH30	SOUTH QUEENSFERRY	South Queensferry				
EH77	EDINBURGH	Special postcode used by Census 2021				
EH91	EDINBURGH	Special postcode used by Jobcentre Plus				
EH95	EDINBURGH	Special postcode used by Scottish Gas.				
EH99	EDINBURGH	Special postcode used by the Scottish Parliament.				

https://en.wikipedia.org/wiki/EH postcode area

Web scraping

Methodology



Geo data plotted on Edinburgh map

Neighborhood	Neighborhood Latitude	Neighborhood Longitude	Venue	Venue Latitude	Venue Longitude	Venue Category
0 Mostly consists of Edinburgh's Old Town. Also	55.95309	-3.18899	Dishoom	55.953726	-3.192540	Indian Restaurant
1 Mostly consists of Edinburgh's Old Town. Also	55.95309	-3.18899	The Balmoral Hotel	55.953113	-3.189509	Hotel
${\bf 2} {\sf Mostly \ consists \ of \ Edinburgh's \ Old \ Town. \ Also \ \dots}$	55.95309	-3.18899	SCOTCH Whisky Bar	55.953062	-3.190095	Whisky Bar
3 Mostly consists of Edinburgh's Old Town. Also	55.95309	-3.18899	Apple Princes Street	55.953354	-3.189947	Electronics Store
4 Mostly consists of Edinburgh's Old Town. Also	55.95309	-3.18899	The Milkman	55.950650	-3.191010	Coffee Shop

173 different categories

List on some venues extracted using Foursquare API

29/05/2020

Results

	Neighborhood	1st Most Common Venue	2nd Most Common Venue	3rd Most Common Venue	4th Most Common Venue	5th Most Common Venue
0	A corridor (rather thin in shape) along the A7	Supermarket	Grocery Store	Fish & Chips Shop	Gas Station	Coffee Shop
1	A corridor along the A702 from Bruntsfield, th	Convenience Store	Pub	Outdoor Supply Store	Mediterranean Restaurant	Pizza Place
2	A corridor along the A8 from Haymarket through	Grocery Store	Pub	Gym / Fitness Center	Supermarket	Chinese Restaurant
3	A corridor in south-west Edinburgh starting at	Supermarket	Coffee Shop	Grocery Store	Gas Station	Tennis Court
4	An odd shaped area surrounding EH1 and EH2 to	Café	Bar	Pub	Coffee Shop	Bakery

Most common venue per Neighbourhood





Kmeans Clustering

- Cluster n°1 has 14 group of neighbourhoods.
- Cluster n°2 has 2 group of neighbourhoods.
- Cluster n°3 has 1 group of neighbourhoods.
- Cluster n°4 has 1 group of neighbourhoods.
- Cluster n°5 has 1 group of neighbourhoods.
- Cluster n°6 has 3 group of neighbourhoods.
- Cluster n°7 has 1 group of neighbourhoods.
- Cluster n°8 has 1 group of neighbourhoods.



Conclusion

- > Cluster n° 1 is the cluster that contains mainly bar and pubs and so the most crowded.
- > This same cluster is located in the city center
- > We conclude that "The steps bar" should open in the city center of Edinburgh.
- > Possible further work: comparing the frequencies of pubs in different cities of UK and give some recommendations where it would be most beneficial to open next.