

# **Group Name's Group Project**

Invalid Date

## **Declaration of Authorship**

We, [five guys], pledge our honour that the work presented in this assessment is our own. Where information has been derived from other sources, we confirm that this has been indicated in the work. Where a Large Language Model such as ChatGPT has been used we confirm that we have made its contribution to the final submission clear.

Date:12/13/2025

Student Numbers:

## **Priorities for Feedback**

Are there any areas on which you would appreciate more detailed feedback if we're able to offer it?

**Remove this page (up to the next pagebreak) prior to submission!**

## Code Examples

This page has example code to show you can include outputs while hiding code in Quarto, as well as some tools for interpolating data in the text.

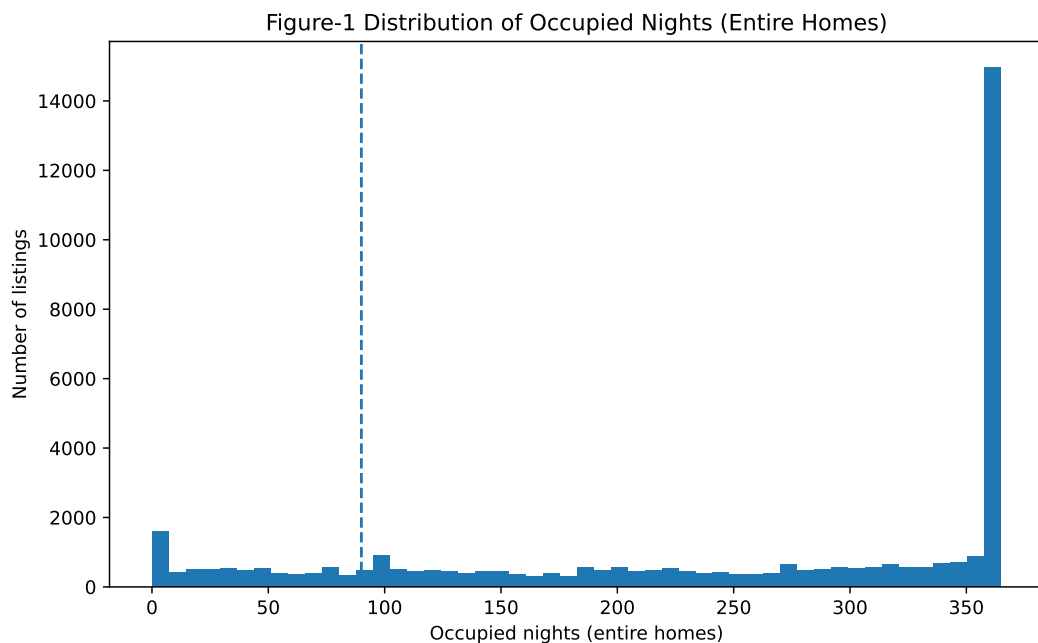
See the raw file for examples of how to hide computational output as there is code hidden here.

```
+ cached: data/raw/20250615-London-listings.csv.gz
+ cached: data/raw/20240614-London-calendar.csv.gz
+ cached: data/geo/Boroughs.gpkg
```

```
=== Loading calendar (streaming) ===
calendar summary: (93480, 5)
=== Loading listings ===
listings: (96651, 10)
=== Merging + flags ===
merged: (93480, 18)
```

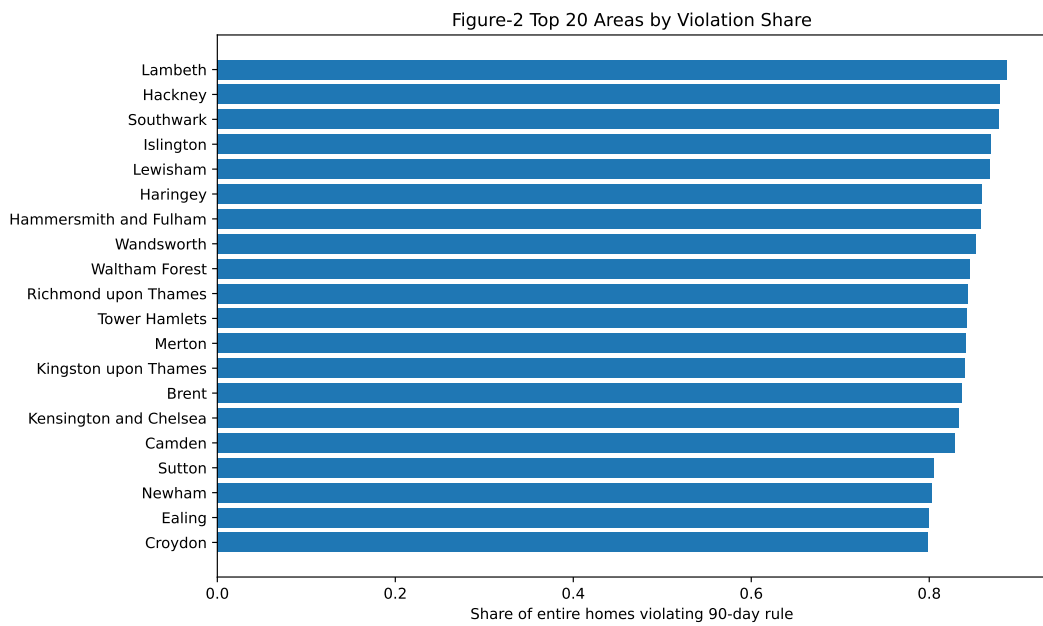
	listing_id	occupied_nights	total_nights	available_nights	occupancy_rate	id	host
0	13913	34	364	330	0.093407	13913.0	5473
1	15400	202	364	162	0.554945	15400.0	6030
2	17402	100	363	263	0.275482	17402.0	6756
3	24328	363	363	0	1.000000	24328.0	4175
4	33332	0	365	365	0.000000	NaN	NaN

```
=== Citywide 90-day rule stats ===
{'total_entire_homes': 40112, 'n_violations': 33375, 'share_violations': 0.832045273234}
```



=== Neighbourhood (borough) violation table (top 10 by share) ===

	borough	n_entire	n_violations	share_violations
21	Lambeth	2131	1891	0.887377
11	Hackney	3019	2654	0.879099
27	Southwark	2195	1928	0.878360
18	Islington	2440	2122	0.869672
22	Lewisham	1041	904	0.868396
13	Haringey	961	826	0.859521
12	Hammersmith and Fulham	1880	1612	0.857447
31	Wandsworth	2148	1832	0.852886
30	Waltham Forest	779	659	0.845956
26	Richmond upon Thames	637	537	0.843014



=== Policy Figure 3: Commercial STR vs 90-day violations ===

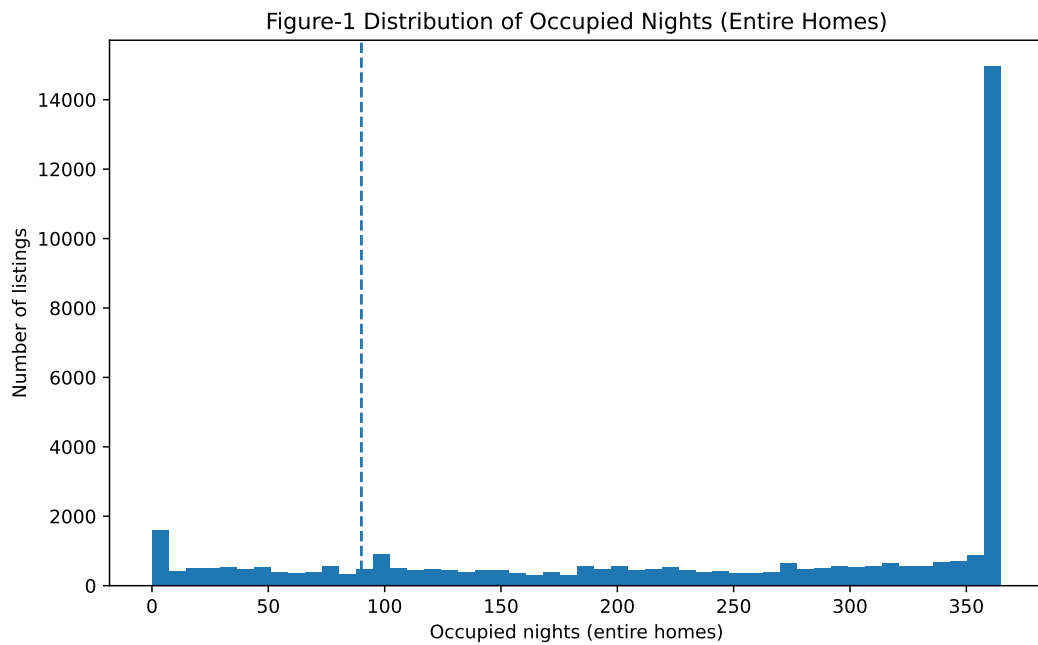
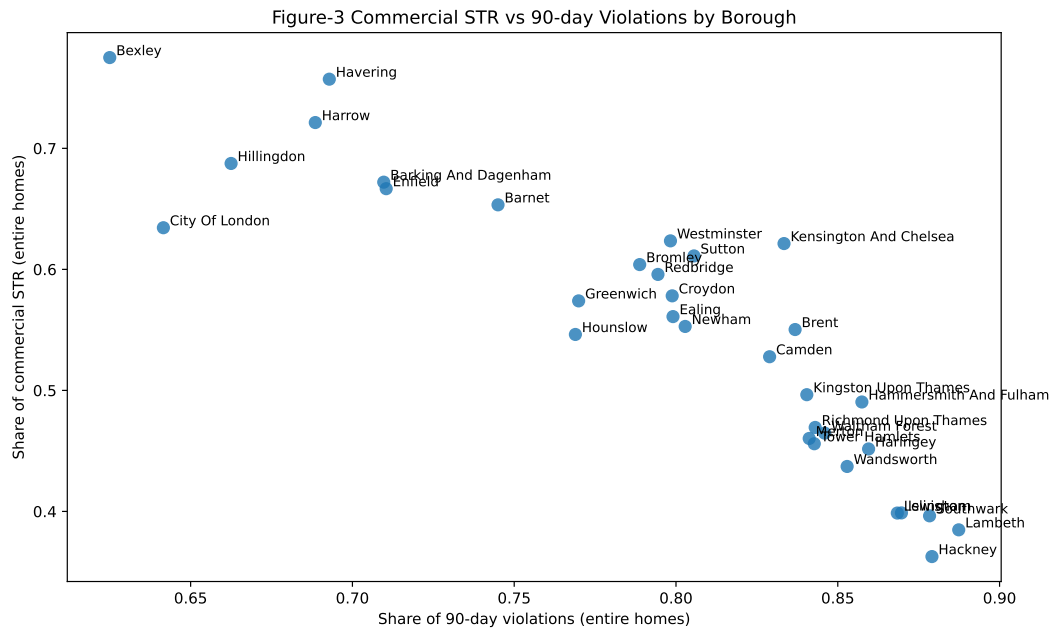


Figure-4 Host Distribution (Capped)

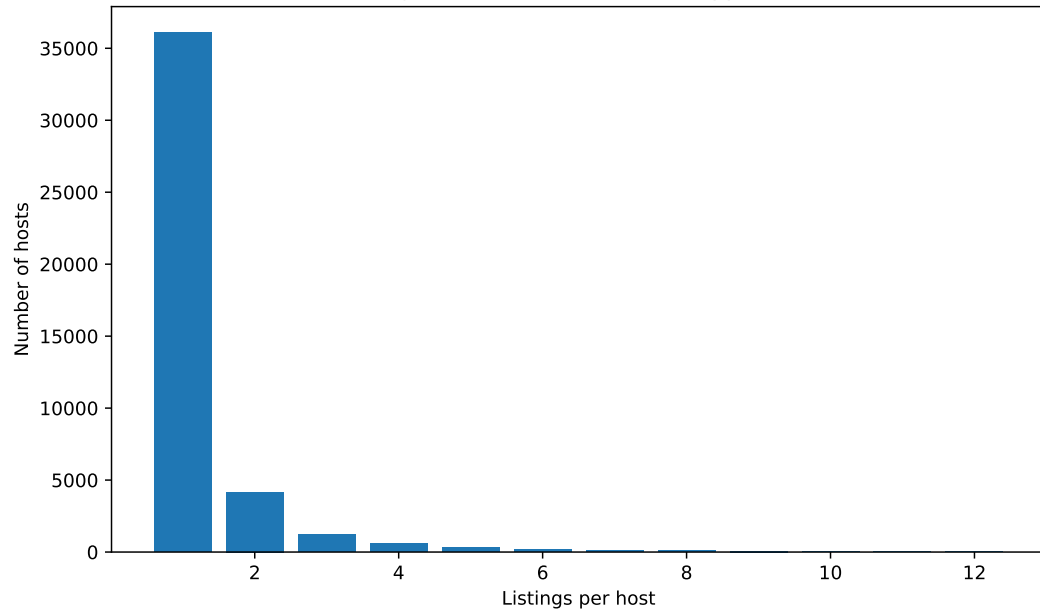
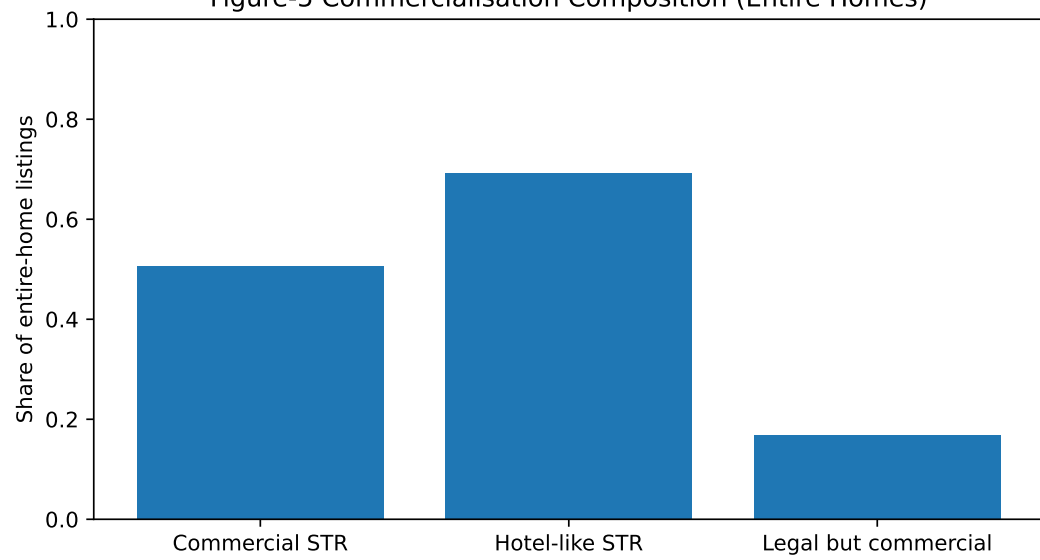
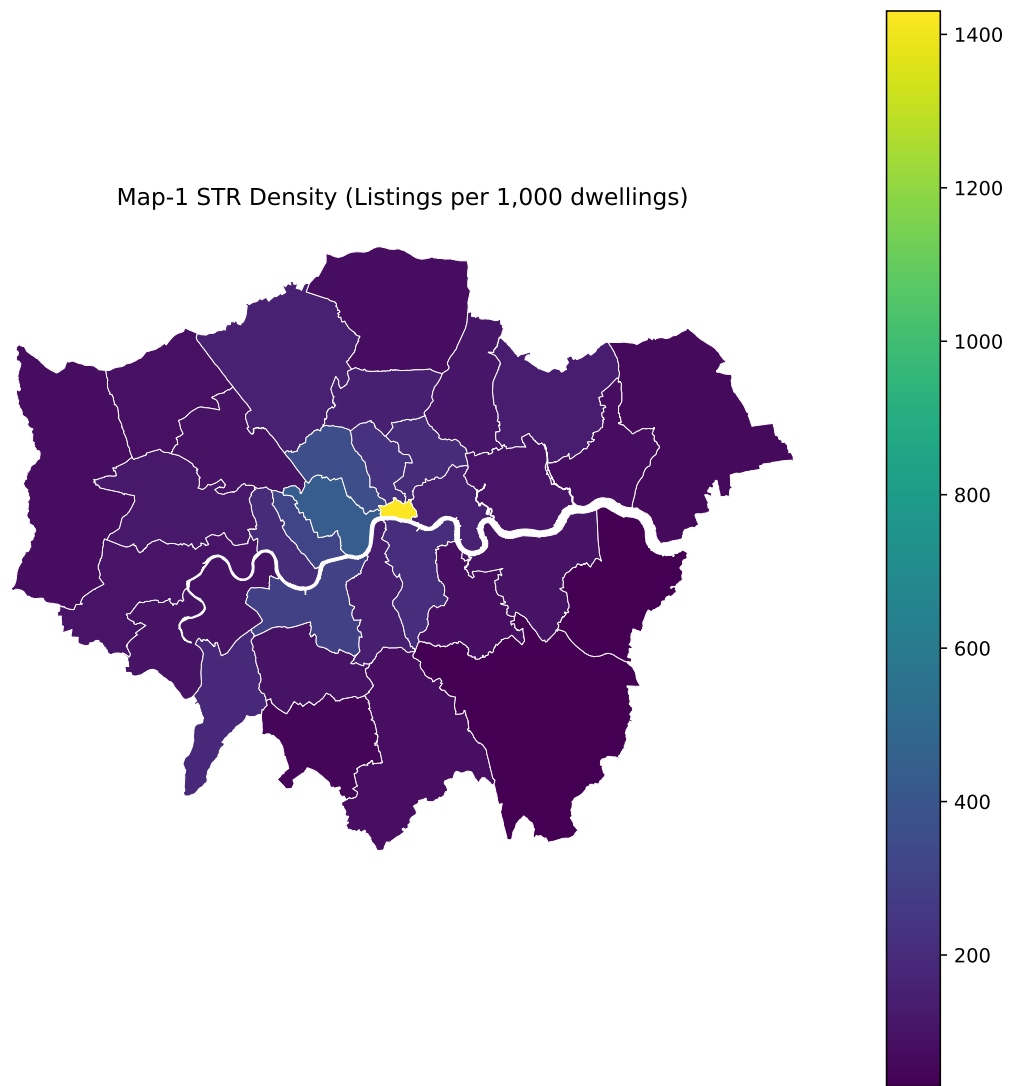
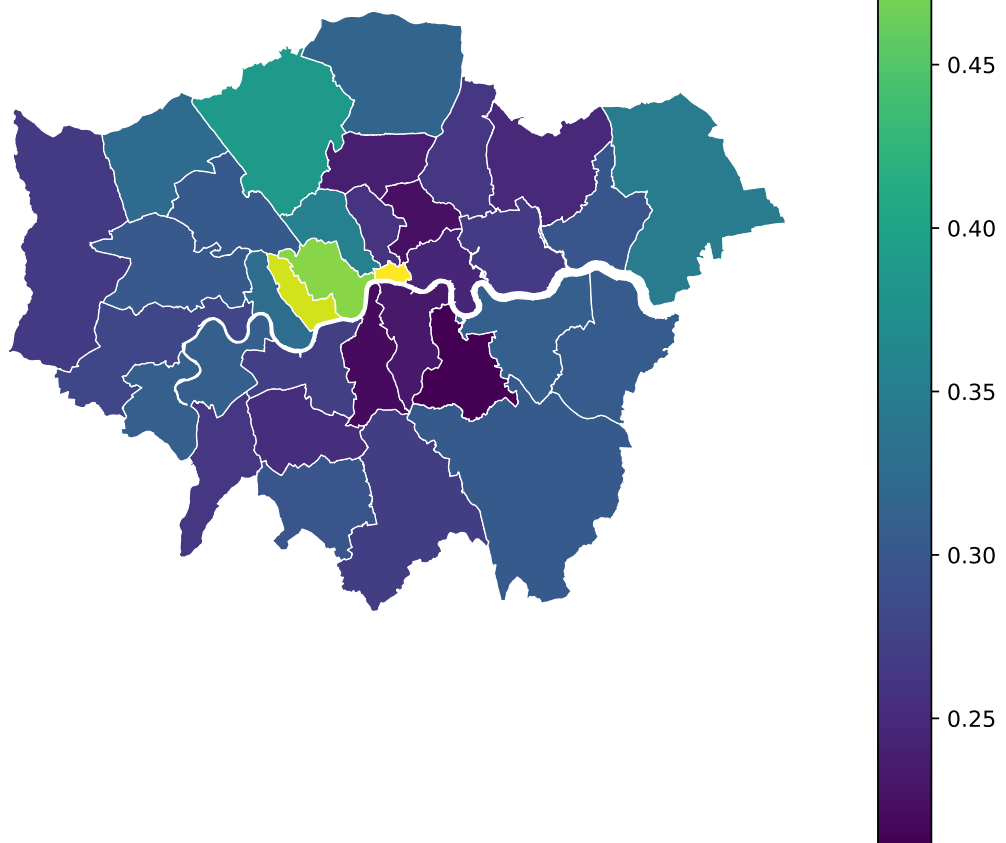


Figure-5 Commercialisation Composition (Entire Homes)



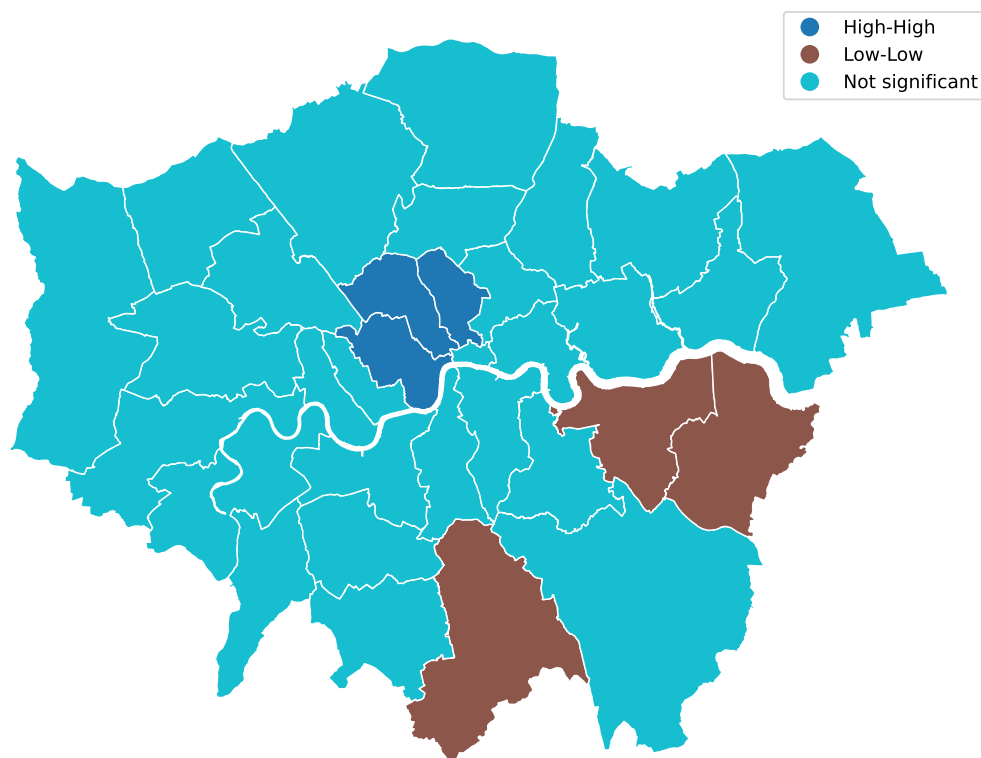


Map-2 Commercial STR Share by Borough



Global Moran's I (observed): 0.2037  
Permutation p-value (two-sided, 999 perms): 0.0030  
cluster  
Not significant 27  
Low-Low 3  
High-High 3  
Name: count, dtype: int64

Map-3 Local Moran's I (LISA) clusters for STR density ( $p \leq 0.05$ )





## **Briefing**

## **References**

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