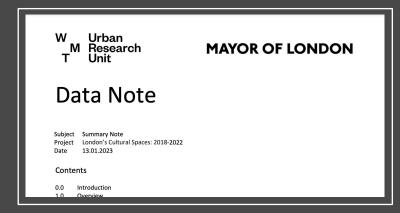




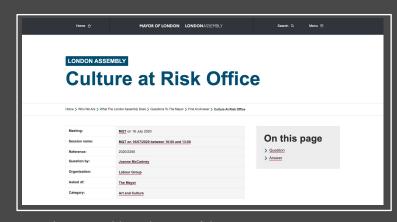
Arts Council England: Culture and Place Data Explorer Map



We Made That Data Note (2023)



Mayor of London Cultural Infrastructure Map



London Assembly: Culture at Risk

Good [morning/afternoon], today I'll be presenting our group's project on cultural networks in London, with a specific focus on Cultural Consumption Infrastructure.

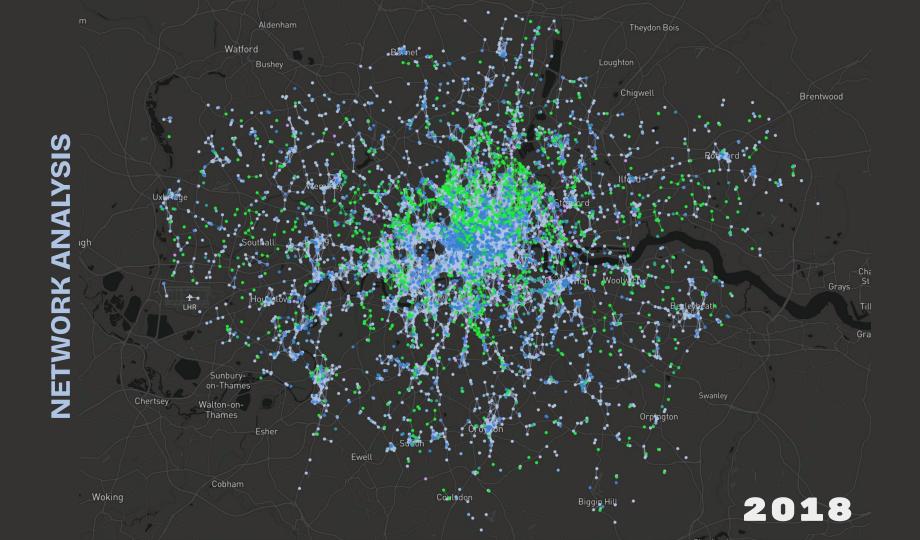
At first glance, you might wonder why we chose to map London's cultural network—a subject already visualized extensively, with two prominent examples on the board behind me.

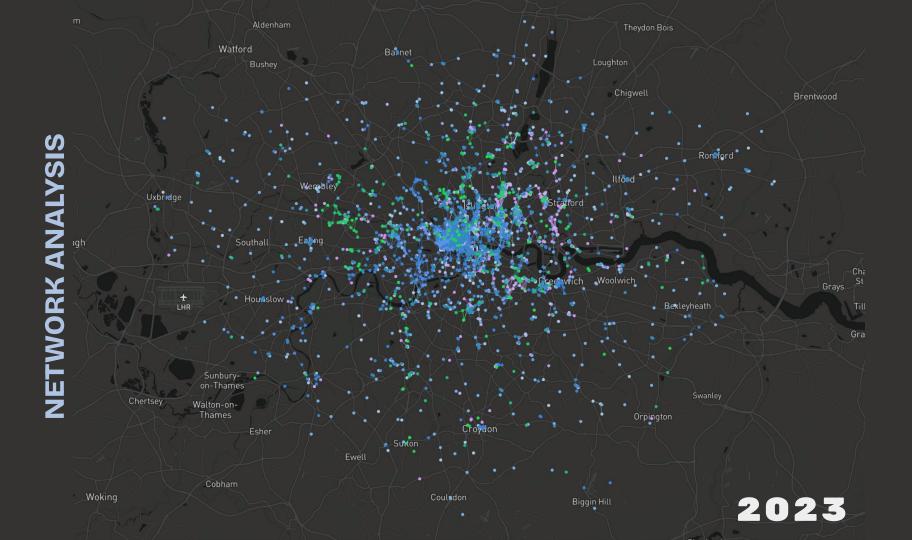
However, what these maps lack is a temporal dimension. They do not capture the shifts in cultural infrastructure before and after the COVID-19 pandemic—a period during which we saw a global and national transformation in the cultural sector due to lockdowns, financial pressures, and shifting priorities.

Our project takes a spatial-temporal approach to mapping London's cultural network, asking: *Is access to cultural consumption spaces in London equitable across time and geography?*From our dataset, we found that:

- 10% of London's cultural spaces closed between 2018–2019 and the present.
- Although some new spaces opened, the net loss stands at 2%, with 3% relocating.
- Specifically, cultural consumption spaces—where culture is *experienced, exhibited, sold or participated in*—faced a larger net loss of 3%.

These figures shaped our decision to narrow our investigation specifically to Cultural Consumption data, allowing for a more granular, focused analysis of what's happening *on the ground* in London's cultural landscape.





On this slide, we're visualizing London's cultural consumption network in two snapshots: one from 2018 and the other from 2023, projected onto the city's geographic layout.

Each circle on the map represents a group of venues, and the links between them are formed when venues belong to the same category and are located within a short geographic distance from one another.

The color coding you see here is based on venue categories, using a gradient that reflects the diversity and clustering patterns across the city.

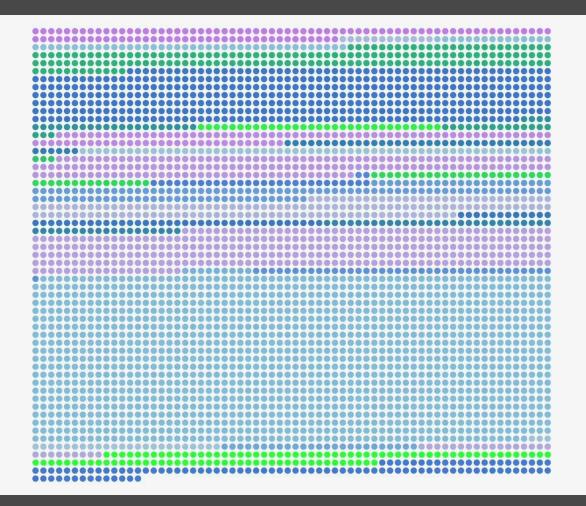
Comparing these two maps side-by-side allows us to observe the spatial continuity and disruption in the network. In 2018, we see a relatively dense and interconnected distribution of cultural consumption spaces—especially in central and inner London.

In contrast, by 2023, we can begin to detect subtle shifts: some clusters have shrunk, a few have dispersed, and certain peripheral zones show gaps where cultural venues once existed.

While some venues were added or relocated, what stands out are the disconnected nodes and missing links—indicating areas where the network has weakened post-COVID.

This visual comparison highlights not just the quantity of change, but the way that change is spatially distributed, helping us understand which areas may have become underserved over time.

# 

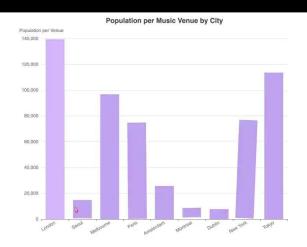


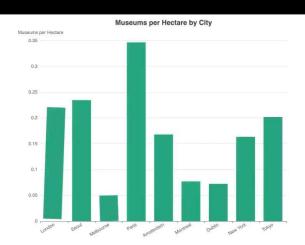
Moving from geographic space to categorical space, this next visualisation shows all cultural consumption venues as individual dots, grouped by their categories.

Each dot represents one or two venues within the same category, and their position in the grid isn't geographic—it's designed purely for clarity and comparison.

What's important here is the color system: every category is assigned a color on a custom gradient scale, helping us track continuity across time.

The grey dots indicate venues from categories that were present in 2018 but not in 2023—what we refer to as discontinued categories.





dropped from standardized datasets.

In exploring the dataset further, we encountered notable gaps—with some of the most at-risk categories underrepresented. A clear example is grassroots music venues, which have historically been more precarious and yet are often the first to be

When comparing London to other global cultural capitals, the city appears relatively healthy. However, once we normalize this data against contextual factors like population density and geographic spread, a different and more nuanced picture emerges.

Given this, we decided to focus our visualizations on music venues and museums—both of which are key cultural touchstones.

- Museums and galleries have seen an 8% decline since the last data capture.
- Music venues, though still prominent, are increasingly vulnerable—especially at the grassroots level.

Through this focus, we aim to prompt users and policymakers to widen their lens when interpreting cultural data from the London Datastore, which remains the only verified cultural infrastructure dataset for the city.

Our goal here is not just to visualize but to critique and interrogate how cultural health is measured, and what might be left unseen in the process.

## 2023 LONDON DATASTORE CULTURAL DATA

2018 LONDON CULTURAL DATASTORE

Spatial Data: Points

2017 OSM 2018 OSM Scraped Data Scraped Data Scraped Data (Overpass (Overpass Turbo) Turbo) Scraped Data Scraped Data Scraped Data Turbo) Turbo) Turbo) 2023 OSM Scraped Data Scraped Data Turbo) Turbo) Turbo)

"Why do data science and visualization need feminism? Because bodies are missing from the data we collect, from the decisions made about their analysis and display, and from the field of data science as a whole."

- DATA FEMINISM

2025
INTERVIEWS
AND CASE
STUDIES

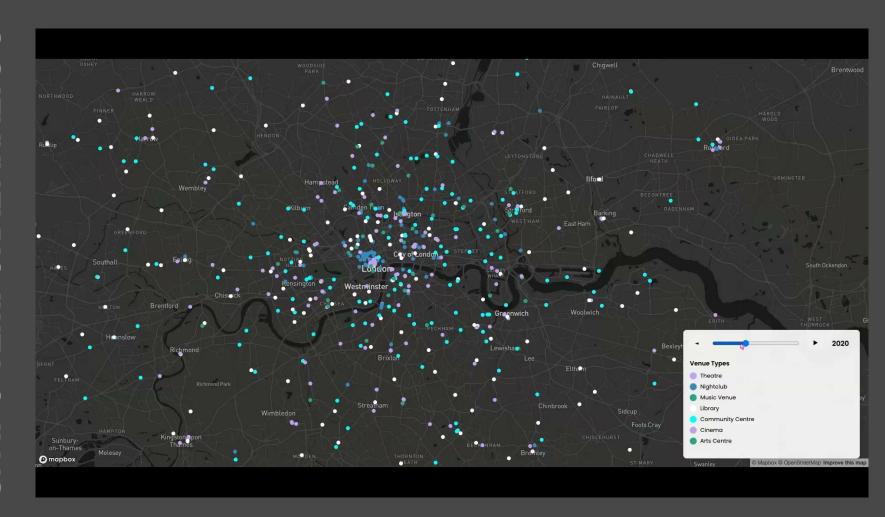
2018 INCOME

2018 POPULATION DENSITY

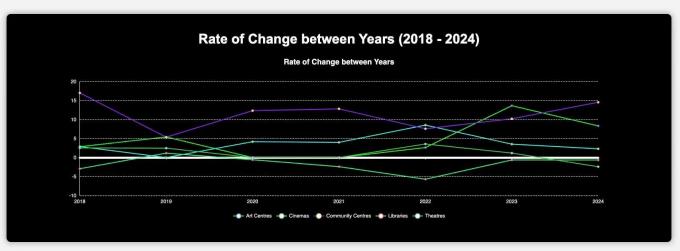
Speaker of this slide prefers to present without a script - their narrative will be in the final report.

## Brief notes:

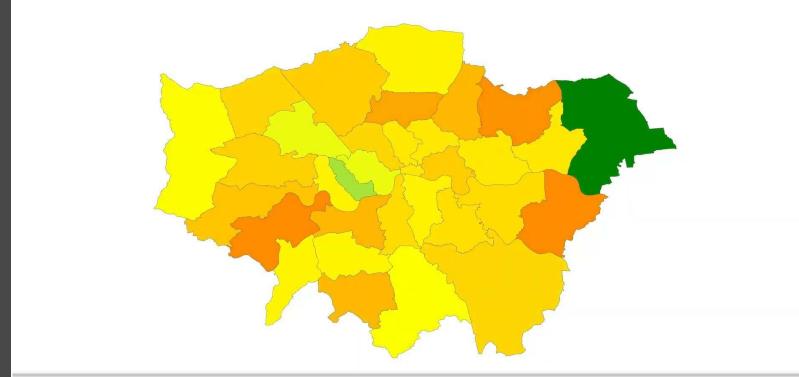
We knew after this if we want a complete picture of London Cultural Network, past and present, we needed to add alternative information and data to compliment the existing data. This was why we used scraped data (2017-2025) and qualitative data (interviews) – Human touch – data feminism. We know the data is not accurate in it's value but it is the only indicator we have to show comparable change thus we decided to use % of change as the metric for the scraped data so it isn't replacing the original data but complimenting it.



Our visual investigation begins with a dynamic temporal map. Users can toggle through years from 2017 to 2025 to observe the rise and fall of cultural consumption points over time. While the map provides important spatial cues, many of the changes are subtle or gradual, which led us to develop a supporting line graph to better capture rates of change over time. Rather than showing absolute numbers, our graph focuses on percentage change, allowing for a clearer sense of trends, rather than volume. This was critical for one of our main observations: Not all growth is equitable. Some cultural categories—like libraries—are facing consistent decline, particularly in specific boroughs, while others have remained stable or even grown. Together, the map and graph begin to uncover hidden disparities, challenging the assumption that a net increase in cultural infrastructure automatically equates to improved access.



## **TEMPORAL ANALYSIS**



To deepen our understanding of inequity across London, we moved to a map-graph hybrid typology, breaking down the percentage change in libraries from 2017 to 2025, borough by borough.

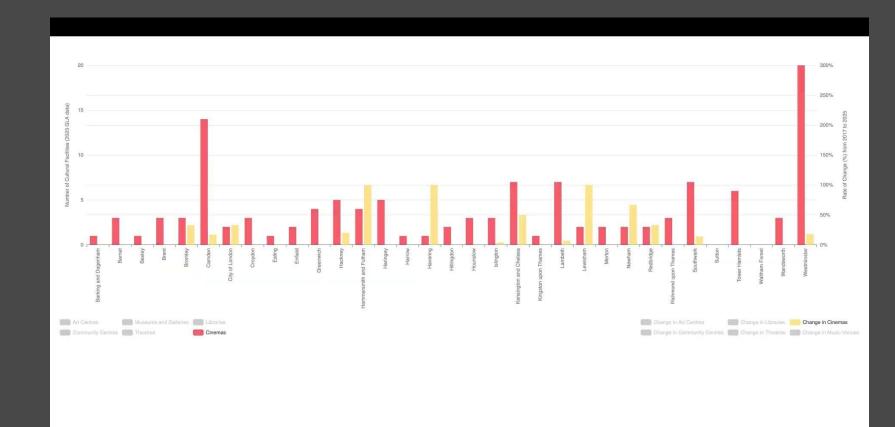
Libraries were chosen as a proxy for public cultural infrastructure due to their accessibility and reliance on public funding—making them a bellwether for cultural investment.

This hybrid visualization allows us to:

- \* Identify which boroughs have suffered the sharpest losses.
- \* Examine how cultural access is concentrated or dispersed.
- \* Engage in more targeted spatial critique, highlighting boroughs where culture is most at risk.

This approach bridges the visual storytelling power of maps with the trend clarity of graphs, offering a multidimensional view of London's evolving cultural geography.

## **BREAKDOWN** BOROUGH BY BOROUGH



Speaker of this slide prefers to present without a script - their narrative will be in the final report.

Brief notes:

Due to this we broke down our scale to observe differences in cultural infrastructure and access borough by borough.

- Contextualising data against external factors like population density or income.
- Complementing investigation with hyperlocal case studies.
- Making the website layout an active player in showcasing this narrative
- Making a "data transparency section" for the website
- Harmonising the designs



Speaker of this slide prefers to present without a script - their narrative will be in the final report.

Brief notes:

Due to these factors, going forward we plan to contextualise the data against external factors like population density and income and complimenting that with hyperlocal case studies.

## Taxonomies applied from Visualization Analysis and Design (Munzner and Maguire 2015):

## User:

- Cultural Researchers (public or private sector)
- Local authorities and cultural institutes at risk pitching for funding in need of an evidence base
- Wider creative community

Scale: London

## **Data**

Data Sources: World Cities Culture Forum, Open Street Map

and London Datastore

Data Types: Items, Attributes and Links

Attribute Type: Ordered (qualitative and quantitative) and

categorical

Dataset Types: Tables and Geometry

Data Availability: Static

Data Form: Time series data, spatial data, categorial and

hierarchical

### Tasks

Consure: Present Produce: Derive Search: Explore Query: Compare London does have a
Cultural Infrastructure
Taskforce, set up in
response to concerns
about loss of cultural
venues. The Taskforce is
part of a broader
Culture at Risk initiative,
designed to support
at-risk cultural spaces
across London.

\*Slides with our script were added to the presentation submission to provide context as we chose to let the visualizations take centre stage as we talked against the narrative - they are not stylised presentable slides.