

The Battle of Neighborhoods West Berlin VS. East Berlin

Project to obtain Data science professional Certificate

International Business Machines Corporation (IBM)



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1 Introduction

Berlin after the WWII:

By the end of the second WWII in year 1945 Berlin the Capital city of Germany Suffered a severe destruction, up to one fifth of the suburbs and 50% of the inner city was already destroyed by the war act. additionally, the infrastructures as well as the economical structure was heavily damaged. The city was also divided to four Sectors by the Allies under the London Protocol of 1944, as shown in the Figure 1 (site .

The areas under the allegiance control will be joined together to form what called west Berlin, and the area under the control of the soviet Union will be the Ear Berlin. Berlin's unique situation as a city half-controlled by Western forces in the middle of the Soviet Occupation Zone of Germany made it a natural focal point in the Cold War after 1947. Initially the City of Berlin supposed to be govern by a council of the Four countries that control the city, an the leadership of his council will be rotated between them. However, the soviet Union dropped from this council and start to govern their side, hence east Berlin.

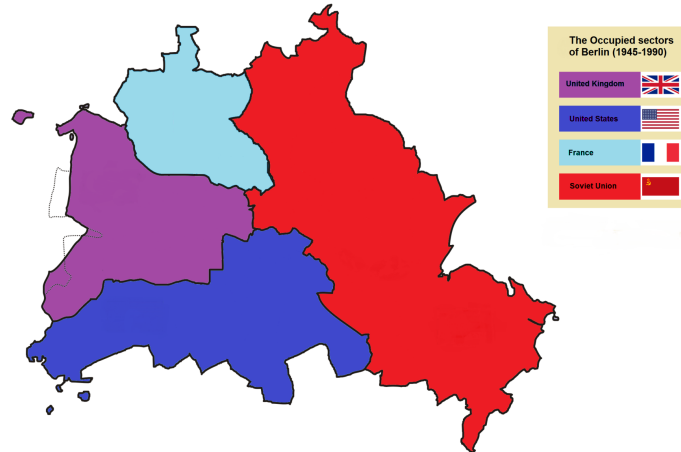


Figure 1: Allied occupation in Berlin (1945-1990)(site By

The wall of Berlin (1961-1989) which divided the city into two independent parts make the development of the both intellectual and economical life diverse from one part to the other. Furthermore, the intensive soviet and western interference in the two sides of the city and the fact that Berlin was a fight ground of the cultural war between the west and east world at that time, lead to a huge gap in all life aspects between east and west Berlin. However, after the fall of the Berlin wall On 9 November 1989 and the reunification of Berlin those differences between the two parts of the city start to faint with time.

2 Methods

Objectives & Data mining

In this project, the analysis of each neighborhood in Berlin will be used to determine the similarity level between neighborhoods and try to inspect if the old division of the west and east Berlin is still present till the day.

The suggested way to accomplish this analysis is to take a focused look at the business kind and distribution in each neighborhood as well as the cultural buildings like theaters, opera houses, museums, etc. and cluster the neighborhood to see the similarities of them.

The list of the neighborhoods from the once called east and west Berlin will be obtained from the Wikipedia website the following pages Wikipedia page for [west Berlin](#) and Wikipedia page for [east Berlin](#) and Wikipedia page for [Boroughs and neighborhoods of Berlin](#) or alternative to Wikipedia is the statistical report of [of Berlin](#). Figure 1 shows a map of the city Berlin with the respective neighborhood in the west and east Berlin.



Figure 2: Allied occupation in Berlin (1945-1990)(site By

Using the website nominatim.openstreetmap.org to extract the boundaries of each borough and the website polygons.openstreetmap.fr to save the polygons

and JSON files. Following the href<https://foursquare.com>Foursquare developer account will be used to retrieve all the locals in each borough. Finally utilizing the K-Mean cluster analyses this data will be analyzed.