In-Class Exercise-5:

Q: lease design a visualization to encode the above information (i.e., time and number of soldiers).

A: From the figure, the dots are the positions where it could be seen as a pattern with a spatial-temporal trajectory of their advancing and retreat routes.

The Basic Visualization encoding we can use here is with the example of GeoTime:

1. Where the points can be the clusters of the soldiers stationed at that particular point in the geography.
2. By imaging the whole trajectory as 3D visualization like GeoTime where each point could be allocated with their month and their date along with the year.
3. While lingering on the point, the width of the trajectory represents the no.of soldiers.

The other way could be like this:

1. Same as the GeoTime, use the width of the trajectory to represent the no. of soldiers.
2. Use a colour scheme preferably sequential to encode the time in their journey.

Q: Given the HKUST campus map and also the flow from one location to another location in any hour (e.g., 10am - 11am, 154 people move from library to UG hall 1), please design a visualization to show  the flows from the top 5 most popular flow-out locations to other locations in a given hour.  How to deal with the flows between locations with the same (x, y) position in the map (e.g., from library to LG7)?

A close up of text on a whiteboard

Description automatically generated

A: