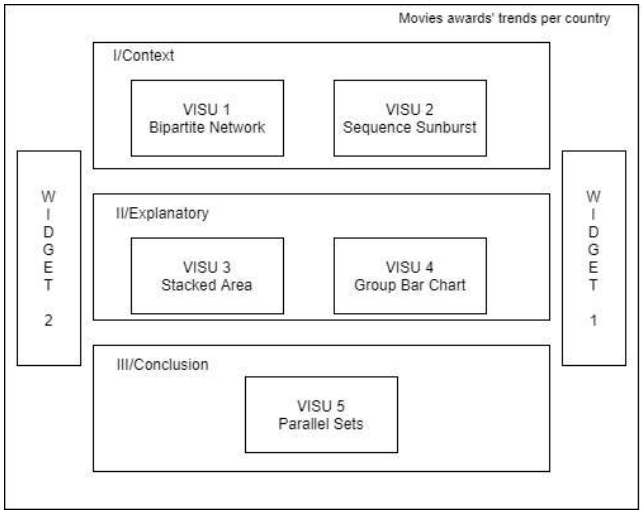
Milestone 2

Goal : Analyze a country's film trends based on the prestigious awards it has received over the years.
Story Board:



Below we present three independent blocks of different visualizations that will implement:

I/Context: Which countries are represented in the film world and at which ceremony?
This question will be our context set up (first page of the site web) in order to understand the distribution of the countries' film production awarded by the most famous ceremonies throughout time.
Motivation: Today there are many film awards and, from the point of view of countries, the fact that a film is awarded or nominated increases the country's international influence.
Visualisation: (Annexe/Fig 1)

1) **Visu 1: Network** representing a Bipartite Graph, the first set of nodes consists of the ceremonies (or events) and the second set consists of the countries. A link between an event and a country exists if at least one film of this country was nominated at this event in a selected year.
    a) **Tools**:
        i) Lecture 5.1 on Interaction: Faceted (navigational) search: a way for the user to choose a specific date in a timeline.
        ii) Lecture 10 on Graphs: gives ideas on the design of our bipartite network.
        iii) Lecture 5.2 on More interactive D3: Crossfiltering on the timeline with Visu 5
2) **Visu 2:** Linked with Visu 1. If you click on an event, a **sequence sunburst** will appear representing the distribution of awards, winners and nominees, films, people and prizes of this event in a selected year : this would be here to help the reader to understand what an event is.
    a) **Tools**:
        i) Lecture 5.1 on Interaction: Implementing some semantic zooming such that by passing the mouse on some points, we get some more details

II/Explanatory: After choosing a country, what movie genres have been produced by a country over time? Has there been an emergence of new film genres per country over time? Are these changes linked to new awards received: is there any correlation?
Motivation: To link countries with film ceremonies we have added the dimensionality of film categories. By doing so, we would like to observe, using a timeline, if a film-producing country is gradually changing the genre of the films it hosts in order to have better audience (according to the film

awards it gets).
Visualisation: (Annexes/Fig 2) We thought that we should have one same timeline in order to visualize if there is a correlation between the emergence of a country and the number of awards received per country.

3) **Visu 3: Stacked Area** which will allow us to view the evolution of genre over time.
    a) **Tools**:
        i) Lecture 7.2: will help to make sure that our visualization respects rules/guidelines of a graphical excellence (scaling, proportion, ...)
4) **Visu 4: Grouped bar charts** to show the evolution of the number of awards received per country over time.
    a) **Tools**:
        i) Lecture 7.2: will help to make sure that our visualization respects rules/guidelines of a graphical excellence (scaling, proportion, ...)
        ii) Lecture 5.1 on Interaction: Faceted (navigational) search: a way for the user to choose a specific country he was to visualize.
    b) **Extra idea**: Add an onmouseover option to show in visu 4 the evolution of awards received by a country over time concerning only one film category selected in visu 3.

III/Conclusion: After the general information accumulated over all countries and awards, one may ask himself how did the repartition of countries linked with the film genres evolve through time based on if the movie was nominated/has won in prestigious film ceremonies.
Visualisation: (Annexes/Fig 3) Conducting this analysis through film awards allows us to better capture a country's prevailing film trends.

5) **Visu 5: Parallel Set:** allow the visualization and comparison of the proportions of the evolution of genres and success of movies per country.
    a) **Tools**:
        i) Lecture 5.1 on Interaction: Faceted (navigational) search: a way for the user to choose a specific date in a timeline and implementing some semantic zooming such that by passing the mouse on some area, we get some more details
        ii) Lecture 5.2 on More interactive D3: Crossfiltering on the timeline with Visu 5
        iii) Lecture 6.1 on Perception Colors: As we have categorical attributes with many different values, one should be careful on the way the colors are chosen.
        iv) Lecture 8 on Maps: in the beginning, there is a presentation of how states have shifted in a timeline. There is no need to plot it with geolocalisation and parallel coordinates is thus a good graph for comparison.
    b) **Extra ideas**: try to implement a transition of the dataset over time.

IV/Widgets:

1) **Widgets 1: NavBar**: 3 bubbles to explain in which section you are (Context, Explanatory, Conclusion)
2) **Widgets 2: Timeline** : To be defined (slider or timeline / discrete or continue)

Extra Ideas:

- Bar Chart Race in Explanatory part to show the total film production by country through time

Our core visualization will consist of the Visu 1, 2, 3, 5 and Widget 2 (minimal viable product).

Annexes:

Fig 1 : Visu 1 & 2

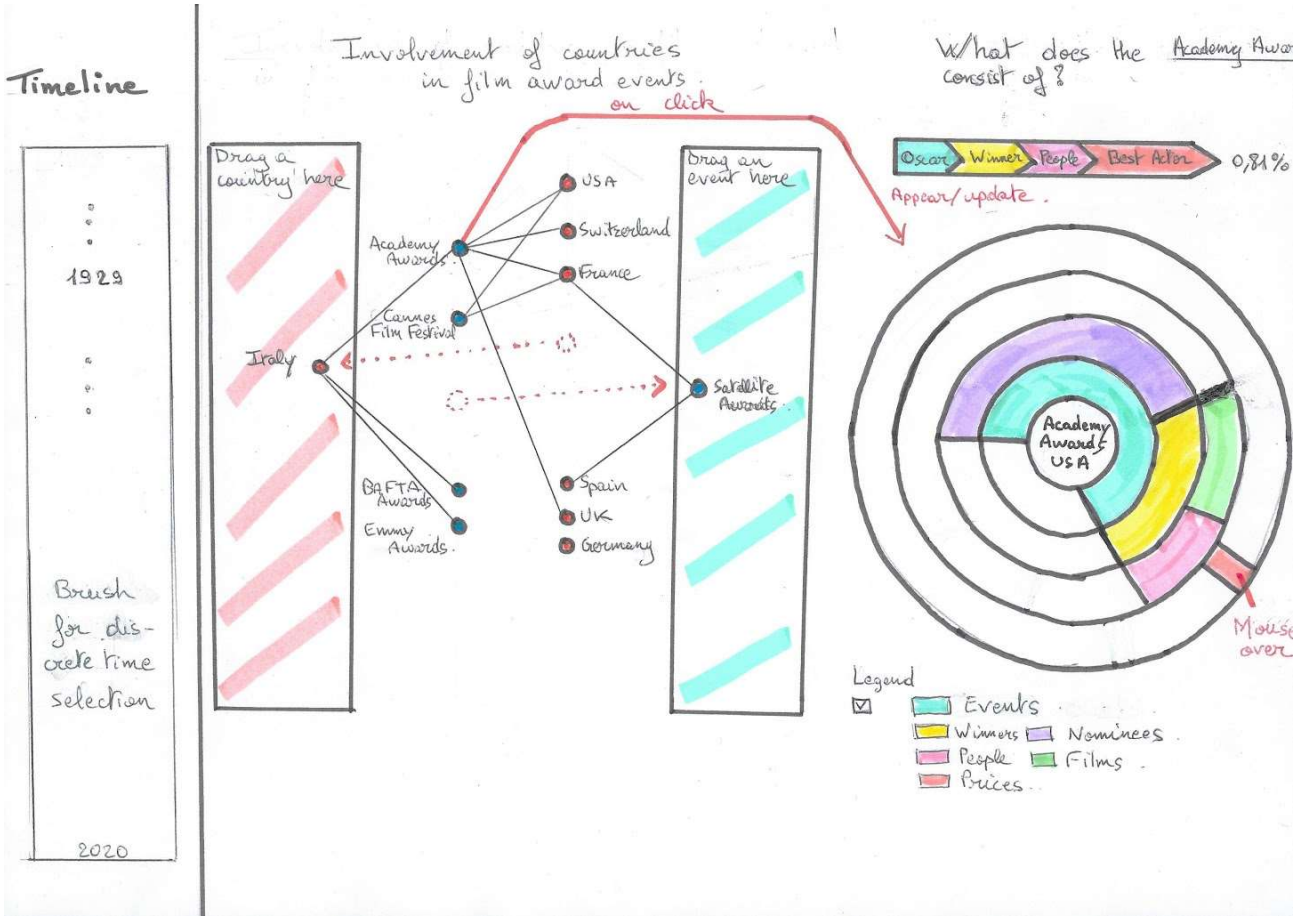


Fig 2: Visu 3 & 4: How does the distribution of film genres produced by a specific country evolve over time?

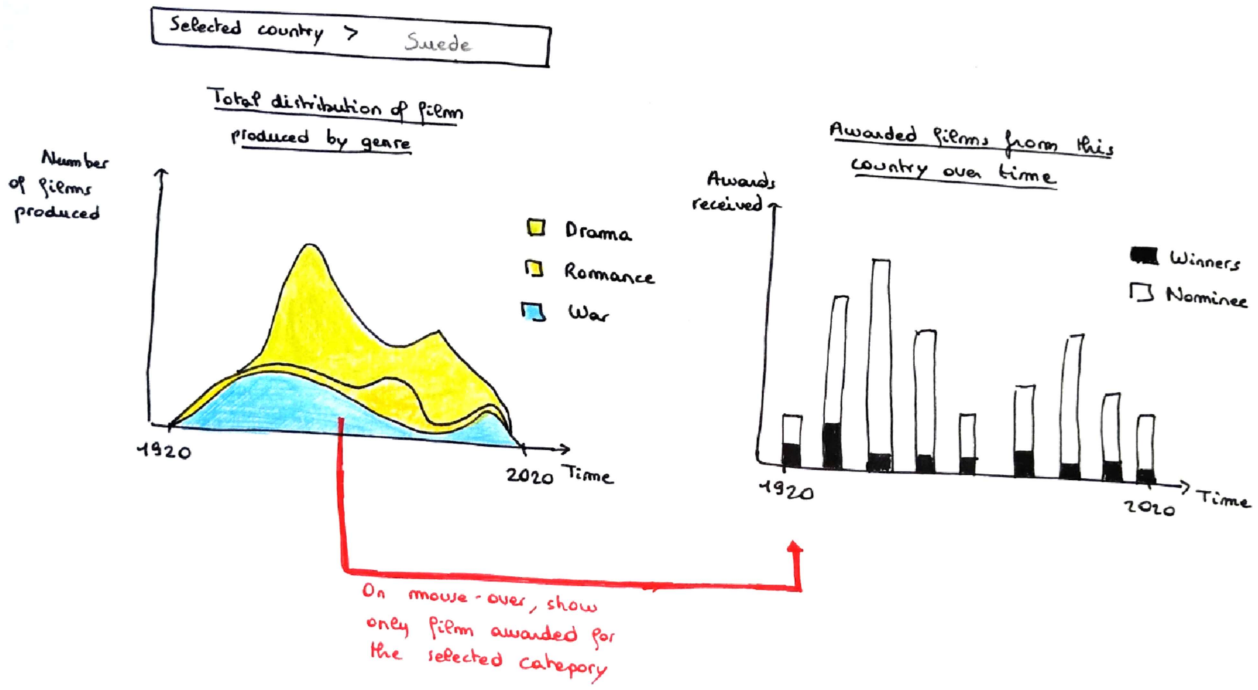
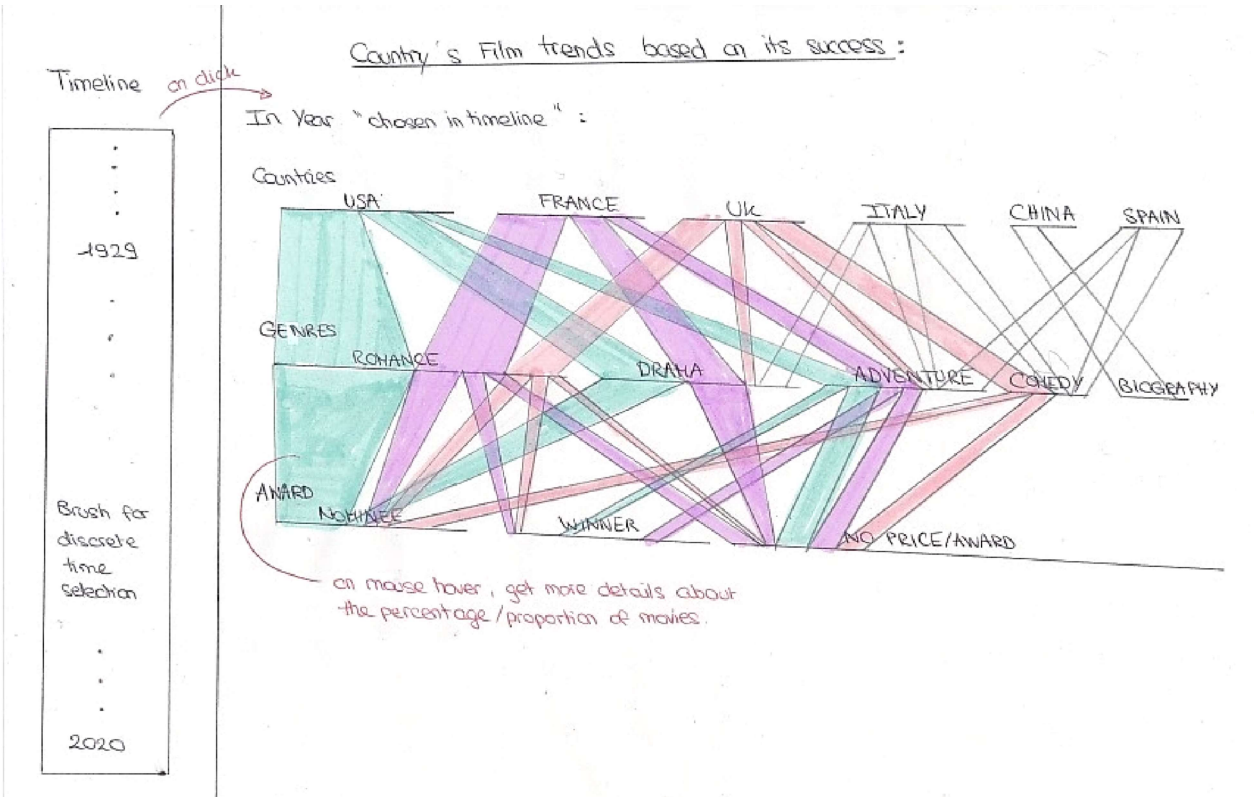



Fig 3 : Visu 5