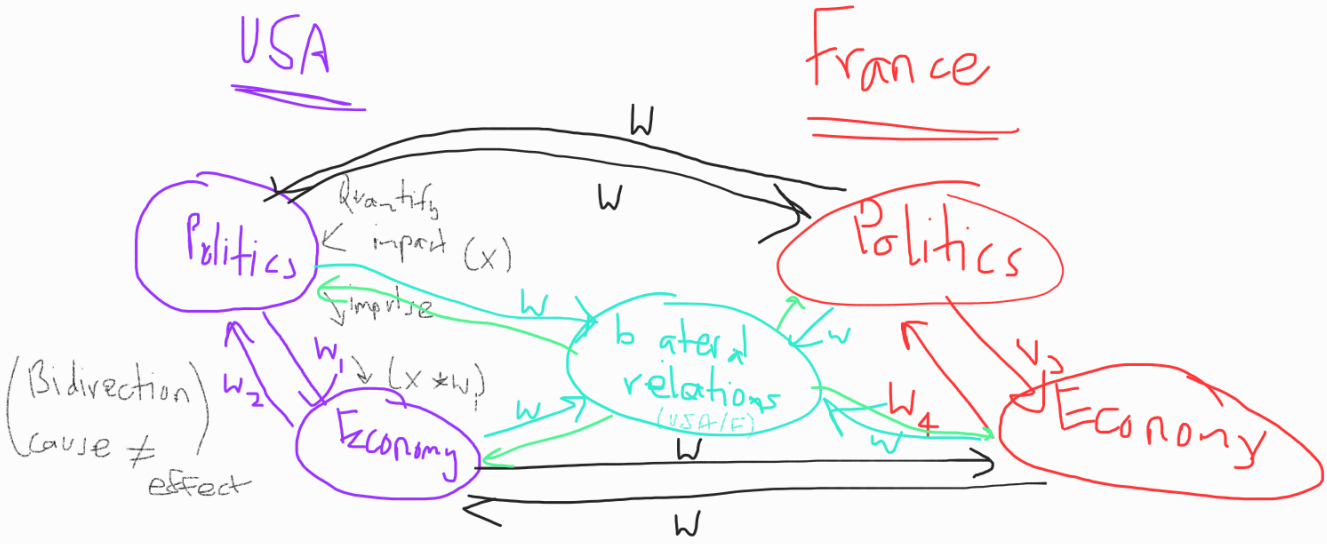
Build

Get info from API

Using info, model outcomes

Model

Idea: Labelled NN



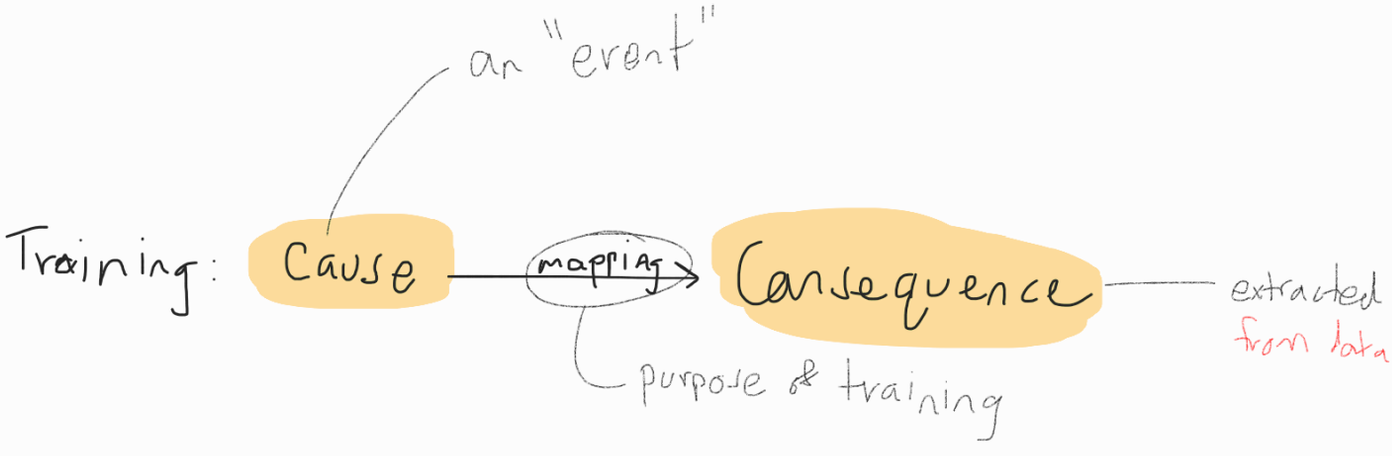
Green = A way to judge seriousness of risks (if w high then serious)

Risk dimensions associated to each country: (two types = cause only or both)

- Need to figure out how any event causes a change to the risk dimension (example, a divided political scene causes an increase in the political risk dimension)
- To make the model more accurate, identify the **subclasses** of each type of diplomatic risk (political, economic and cultural)
- AI needs to be used to associate any **event** to the respective subclass of risk

Remember: The input into the model is an *event* in its entirety that is analysed

How to make the model:



Input: **Event** and the **Consequence** of the event (this is the **information that needs to**

be gathered from the API)

Event

Format of the details associated to an event:

1. Name of event
2. Country of direct impact
3. Event classification (economic, political, cultural) and its subclass
4. Impact of the event on the risk dimension (needs an ***algorithm*** to gather data about the event and deduce how serious it is) (take inspiration from Google search) (only one dimension impacted - the priority one)

Consequence

Need to study more about how to deduce the consequence of an event when looking at diplomacy from a historic perspective.

Assume that all changes that take place after a given event within a given time

span are consequences of that event. The:
1. recurrence of that connection
2. geographic and cultural proximity strengthens the link. The link is irrespective of the timespan.

Thus, consequences will be input in the same format as events (as events that take place). However the following additional detail is needed:
NOTE: *Consequence lifespan* (defines the time within which associated events will be considered)
The model needs to have different weights for a set of consequence lifespans to see the long term and short term risk.

Learning algorithm
This can be similar to the Neural network fitting model. It has to be somewhat modified however.