

## ■ TensorFlow for Solving Multi-level QA

- TransR model (Graph embedding using triplets)
- Eg: USA + Neighbors + Capital => Mexico City, Ottawa, ..., .....

## ■ Techniques used to improve the model

- Hard Negative Sample Selection
- Multi-step Normalization
- Negative Sampling

## ■ Appealing points

- Obama + Spouse + Spouse => Obama! (Cyclic relation)
- Model is able to LEARN the type of property!

## ■ Future Work

- Improve the prediction for non-existing triplets
- Train the model for large data.