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Lecture: Vector Space Models

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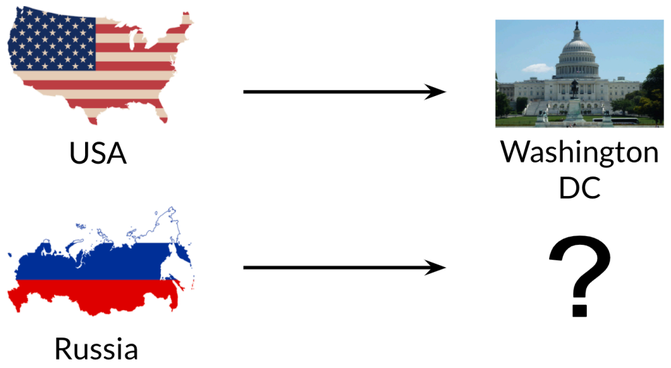
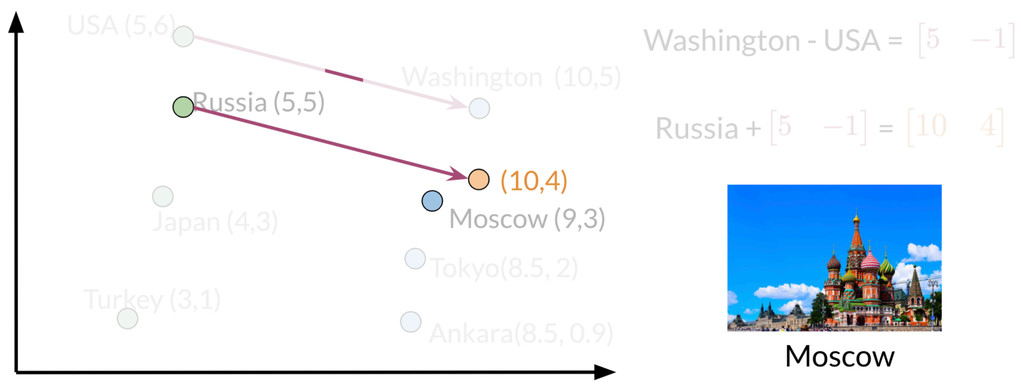
Manipulating Words in Vector Spaces

You can use word vectors to actually extract patterns and identify certain structures in your text. For example:



You can use the word vector for Russia, USA, and DC to actually compute a **vector** that would be very similar to that of Moscow. You can then use cosine similarity of the **vector** with all the other word vectors you have and you can see that the vector of Moscow is the closest. Isn't that cool?



Note that the distance (and direction) between a country and its capital is relatively the same. Hence manipulating word vectors allows you identify patterns in the text.