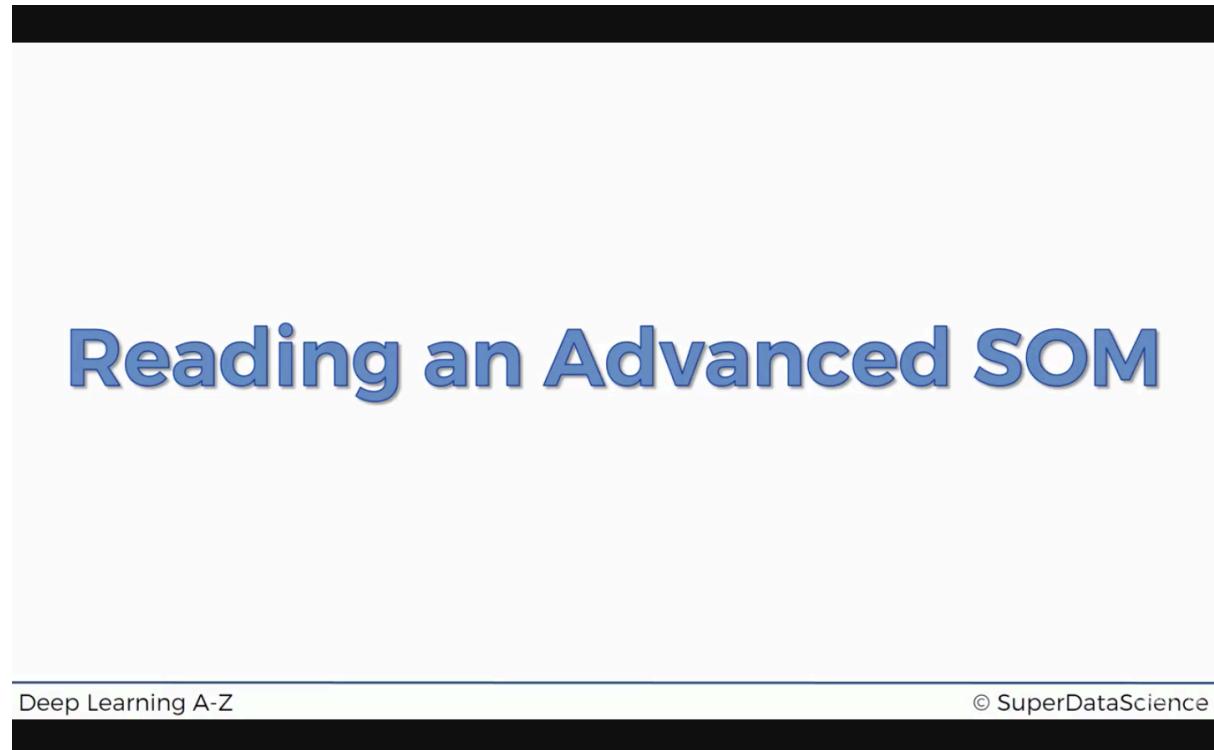


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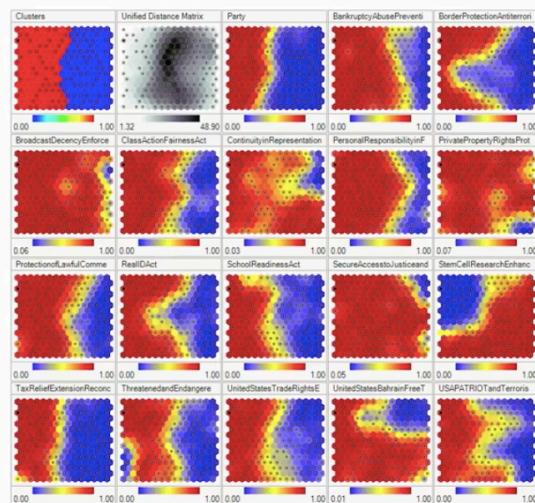
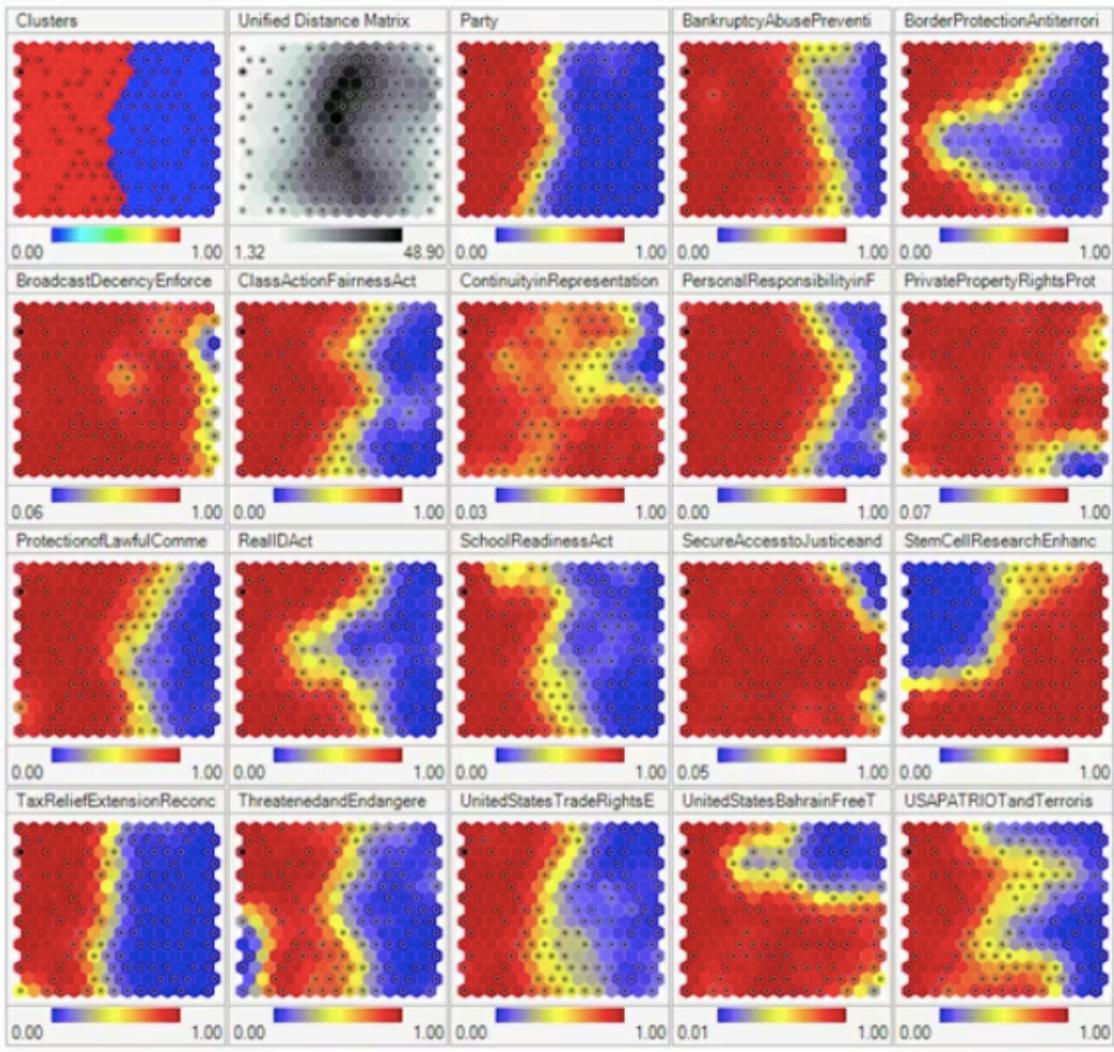


Image Source: Wikipedia

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This is self-organizing map of voting results of US congress. The input is the dataset related to the member of congress which is around 530 members. This is the result of their voting. In here the self-organizing map was able to understand which members are similar to each other.

Unified distance matrix: distance between nodes on SOM. Dark color means that those point are further apart. Light means that points are close together. If you notice the part that is the darkest is also the part which two colors in cluster are apart because there is dissimilarity.

Party: member of parties like red is republican, blue is democrats

After party, the color red means yes and the color blue means no.

Bankruptcy: you can see that almost all of the republicans votes yes to this.

Broadcast: if you notice, you will see some yellow color in the middle of red. It means that in middle of reds, there is also some blue in there.

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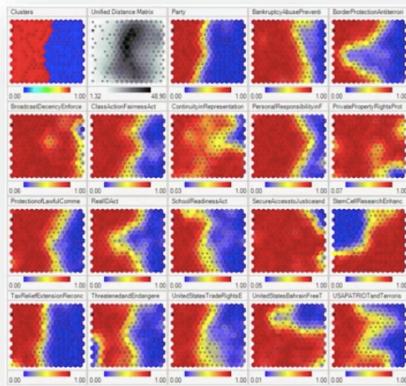


Image Sources in order of appearance: Wikipedia, boylelab.org, R-Bloggers, This Course, stackoverflow.com, Viscovery.com, visualcinnamon.com

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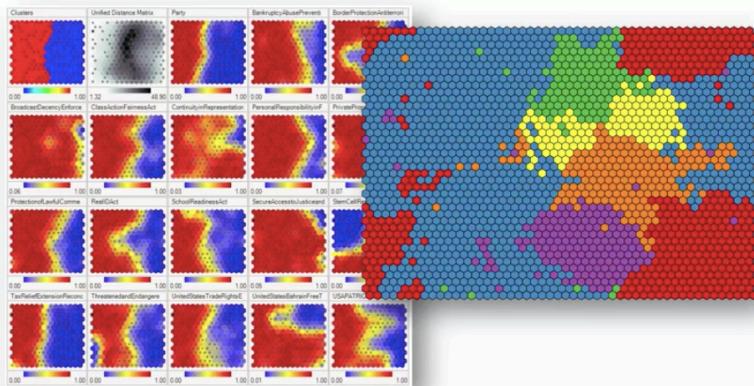


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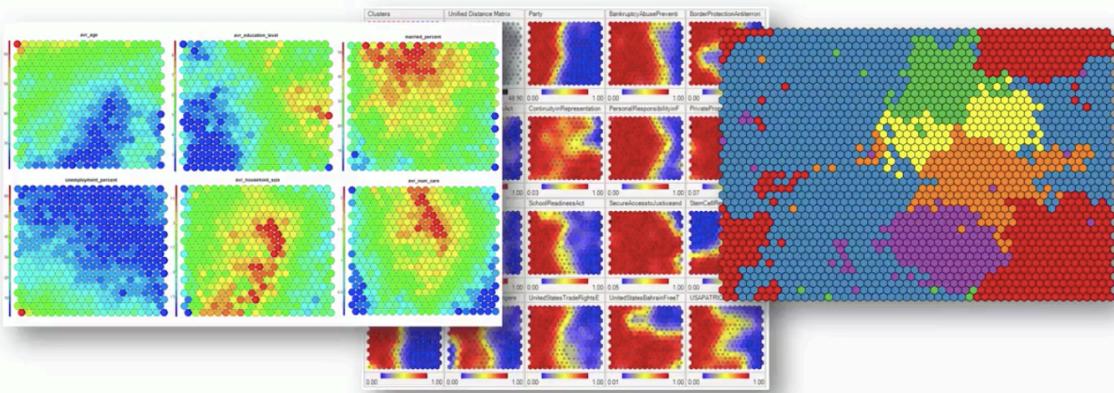


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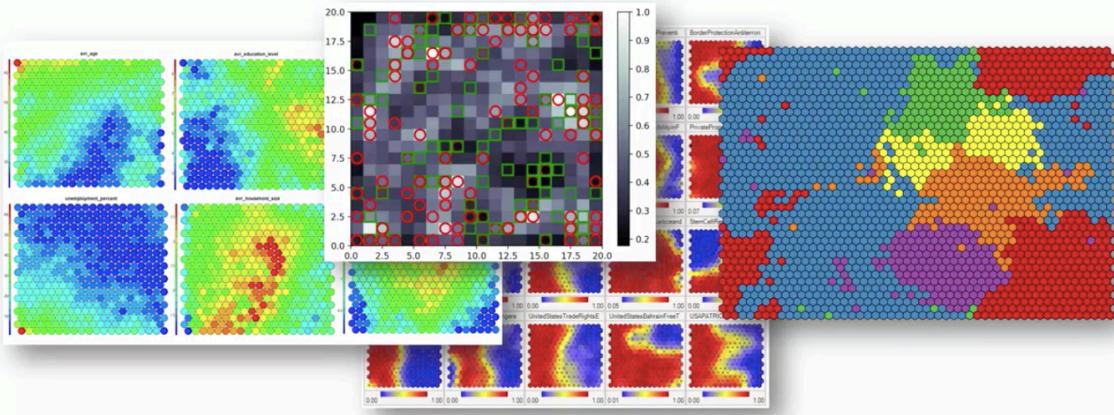


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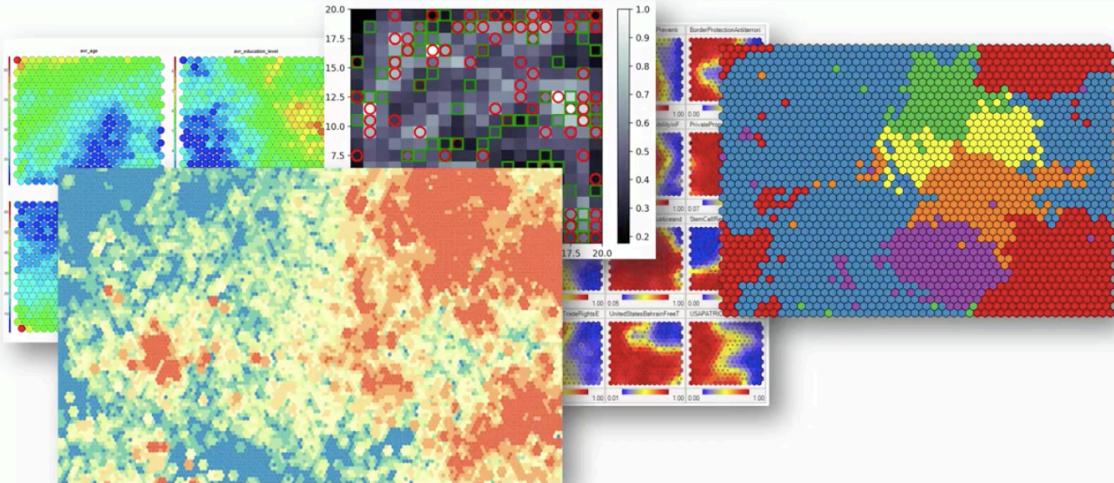


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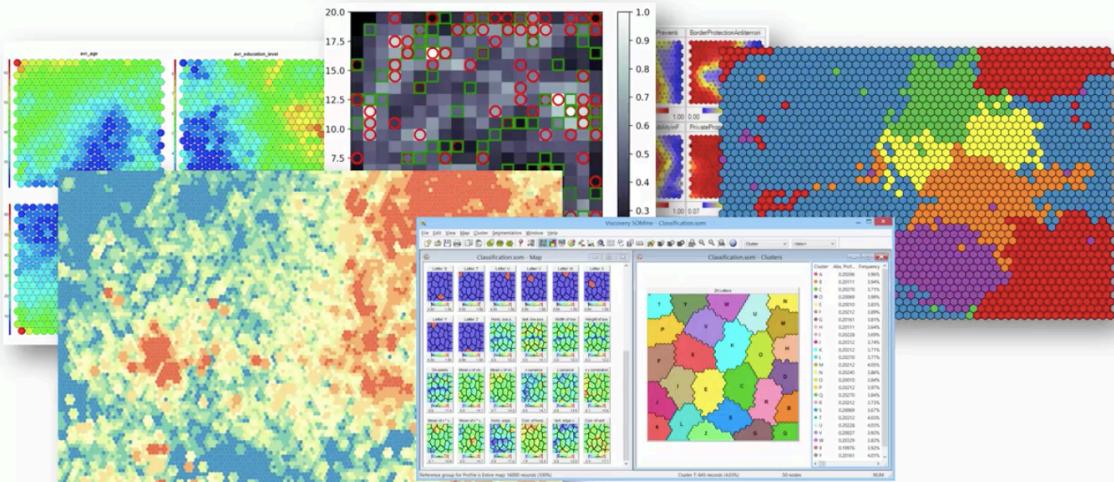


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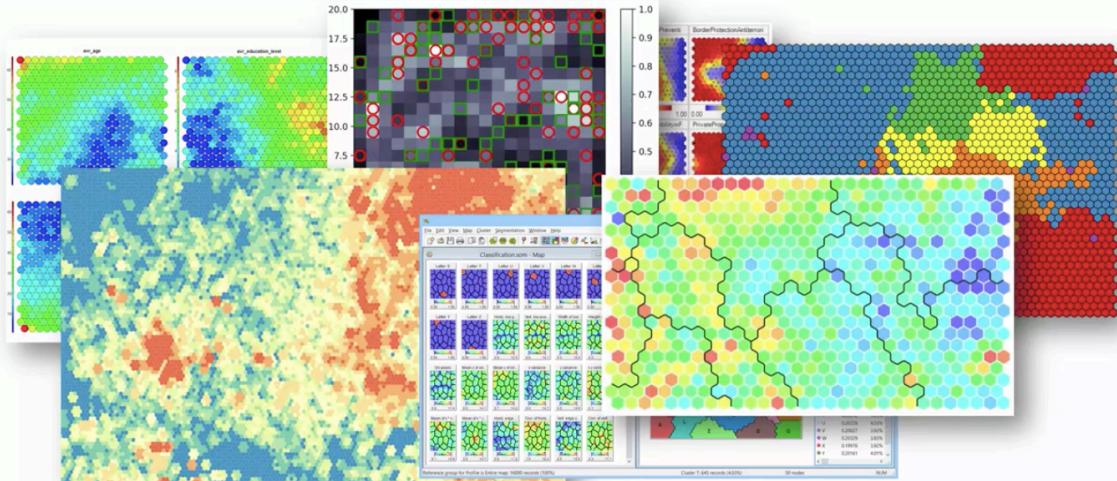


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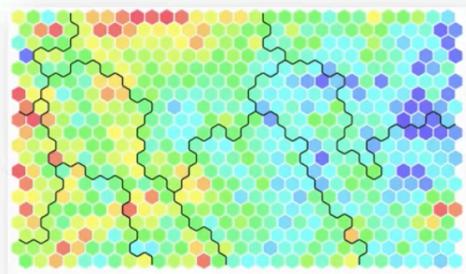
Additional Reading:

SOM - Creating hexagonal heatmaps with D3.js

By Nadieh Bremer (2003)

Link:

<https://www.visualcinnamon.com/2013/07/self-organizing-maps-creating-hexagonal.html>



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