

**zase MAPY!**

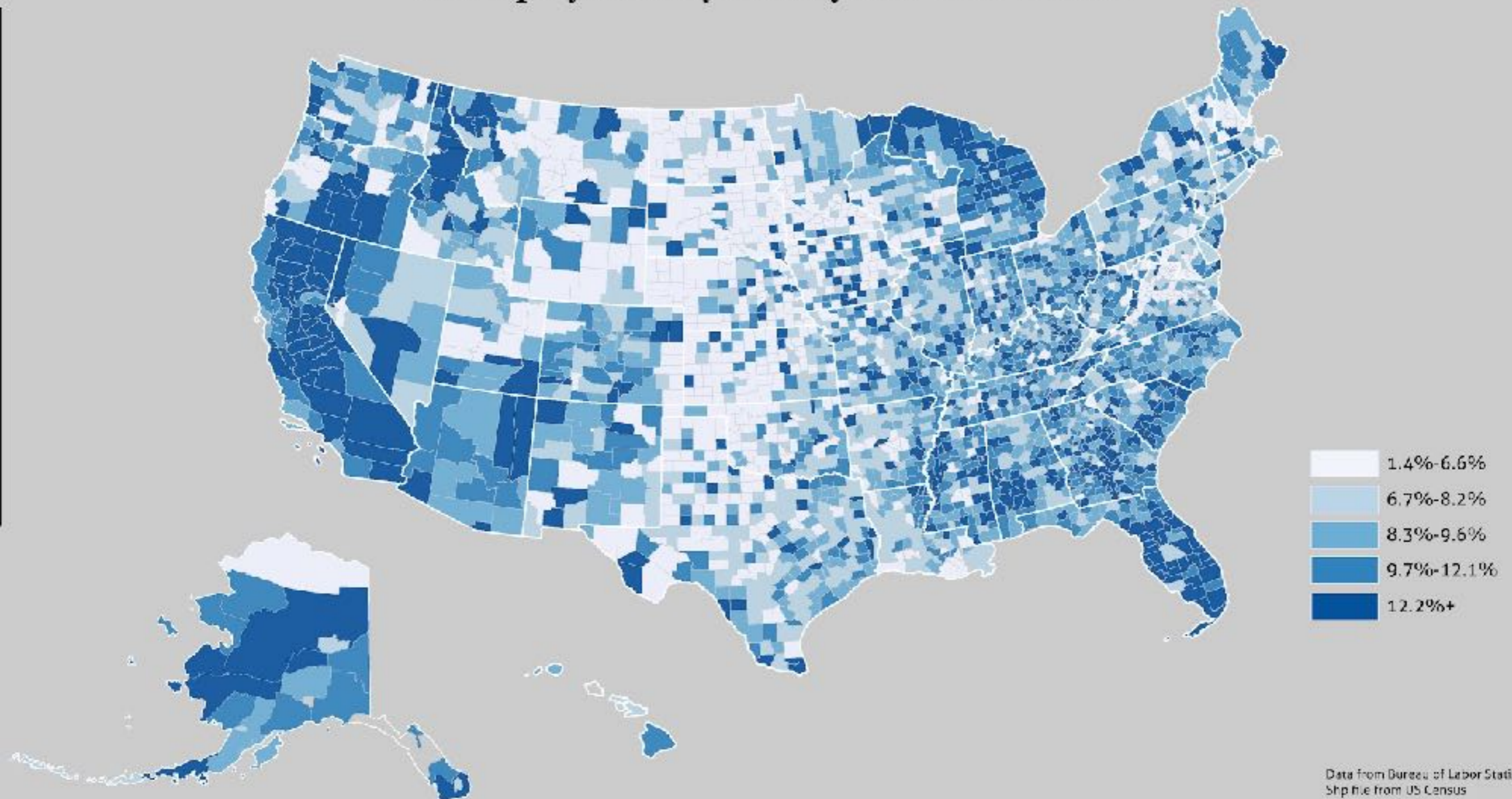
Jan Pospíšil  
jsem@posp.cz

# Osnova

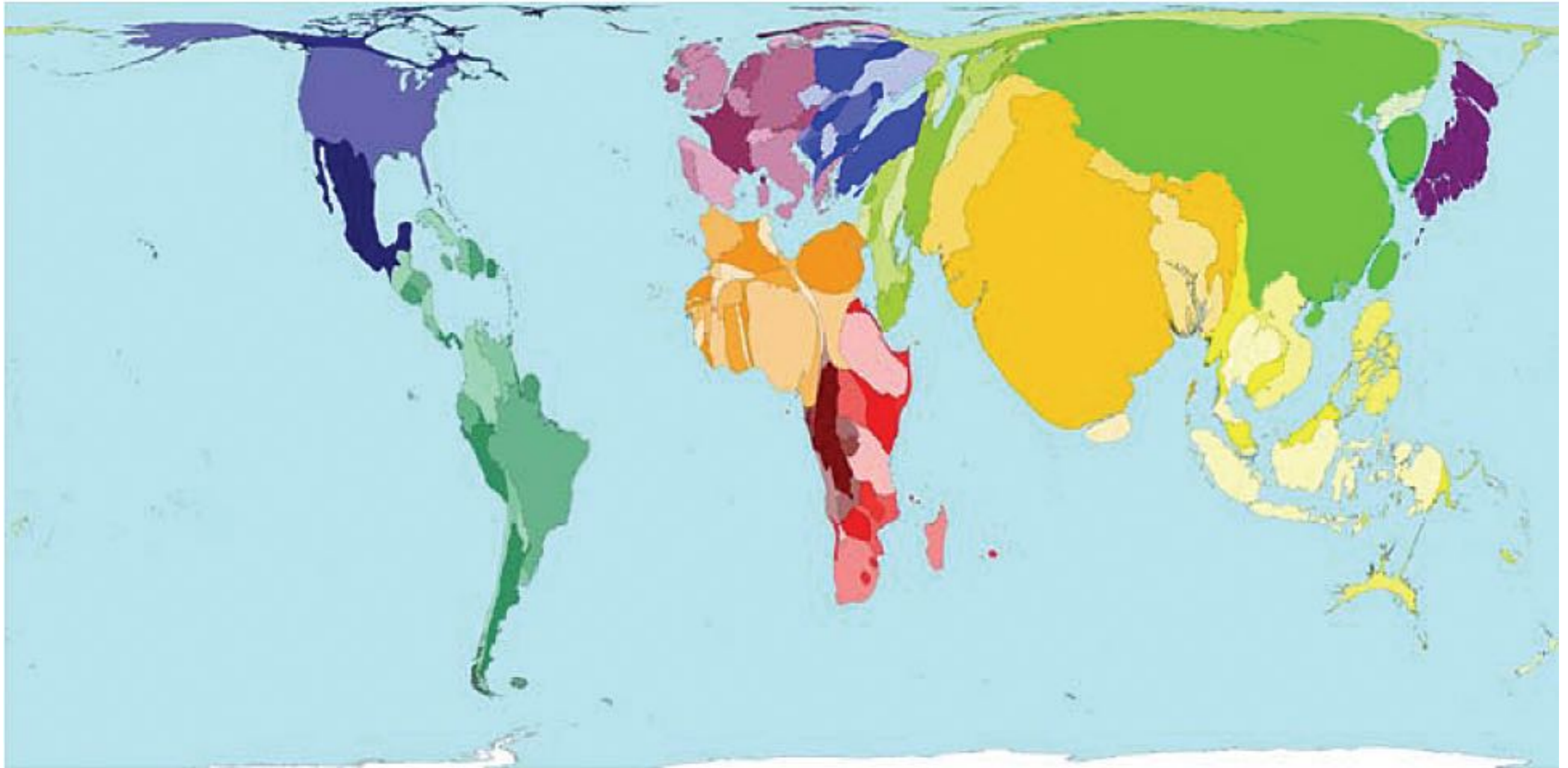
- Choroplety
- Google Fusion Table
  - Spojování tabulek

# Chroplety (kargoramy)

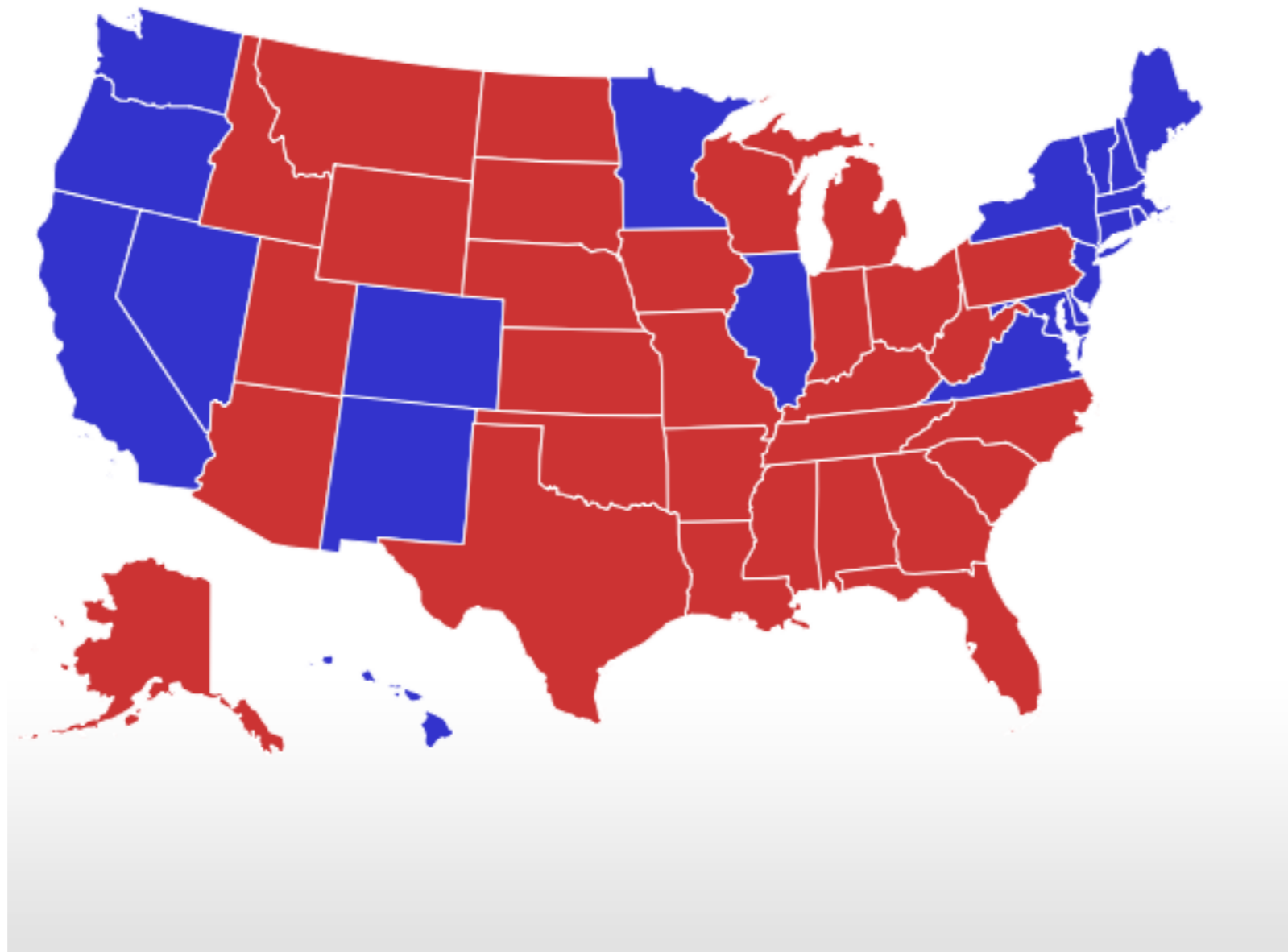
Unemployment by County: Nov 2010–Dec 2011

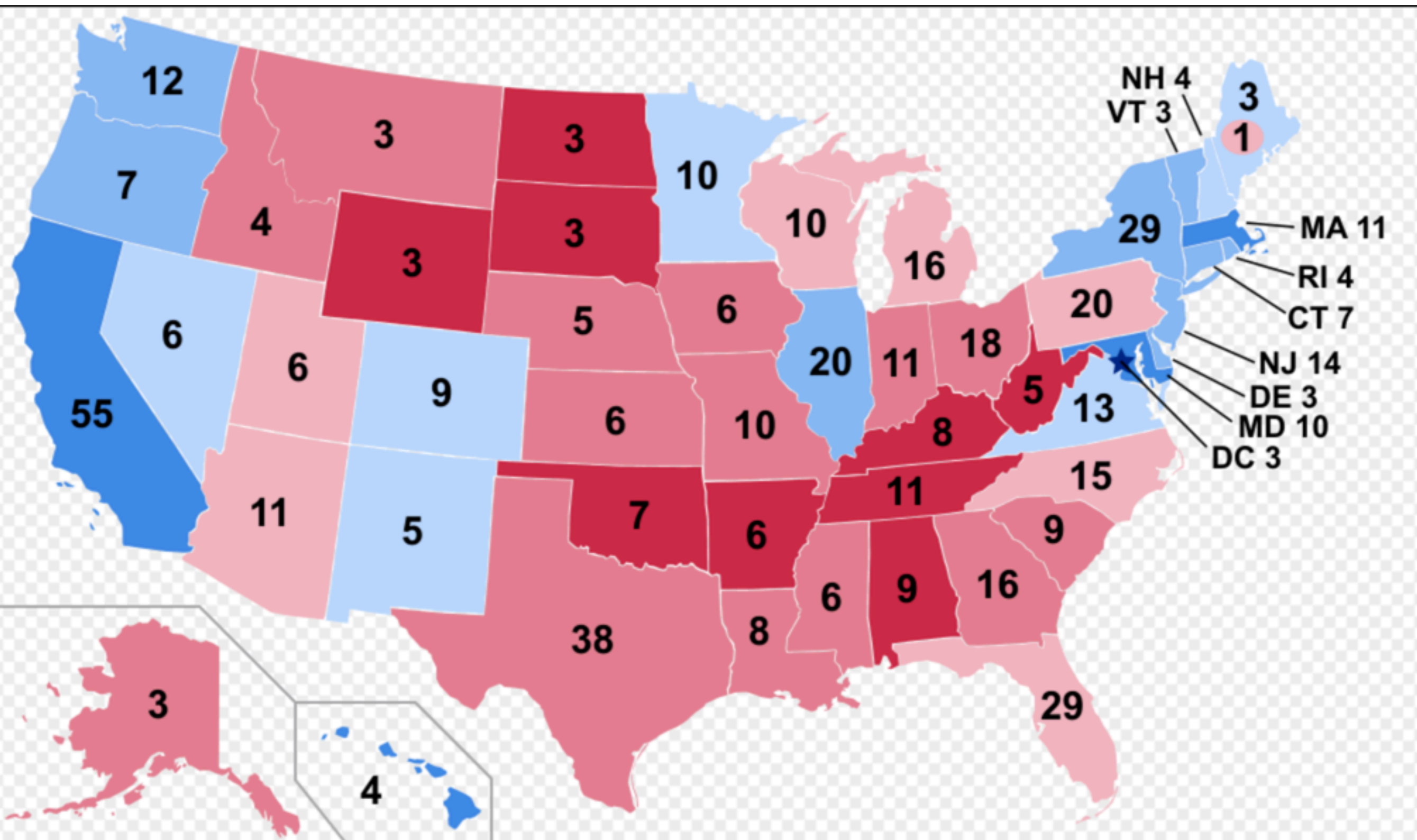


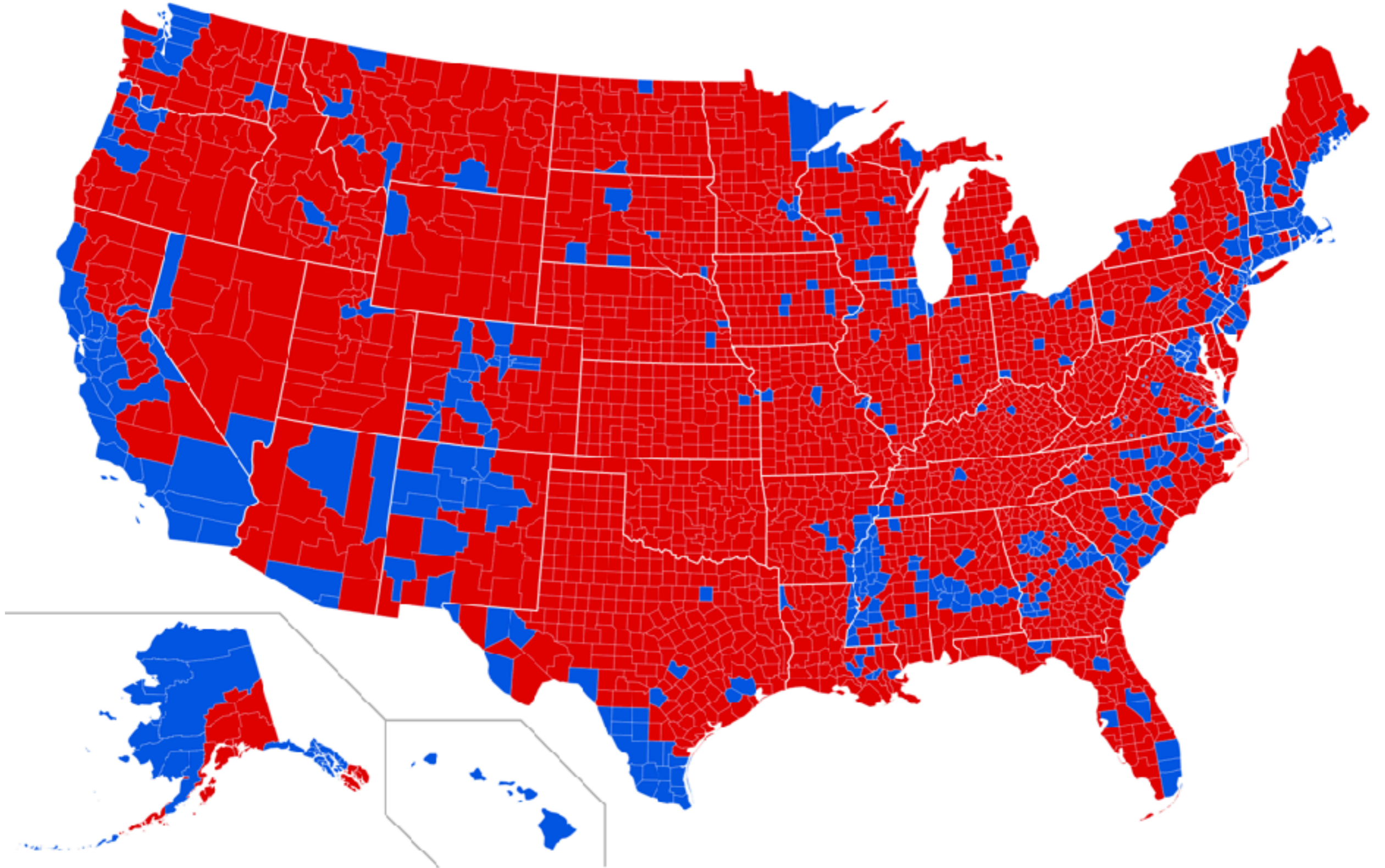
# Cartogram (Anamorfoza)



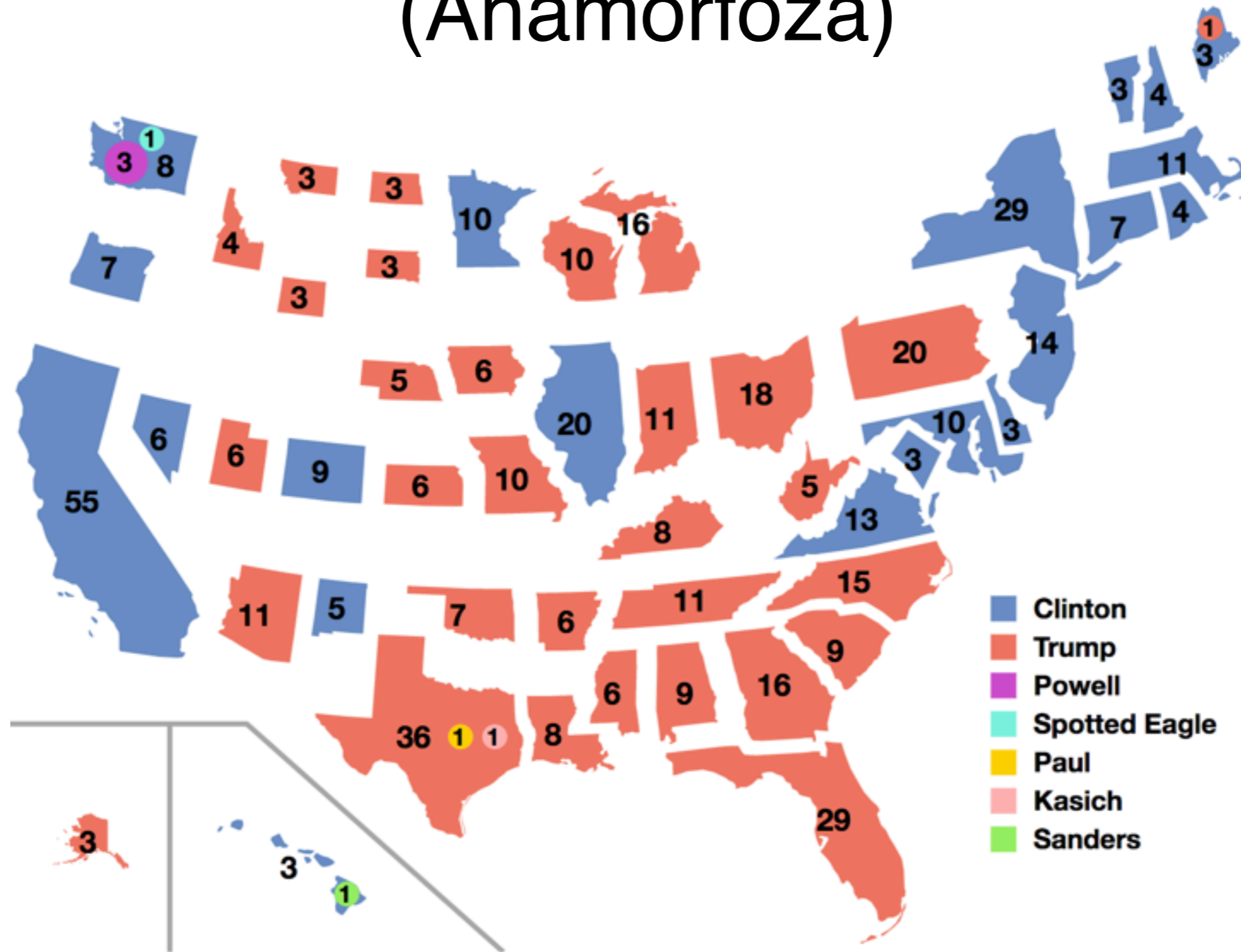






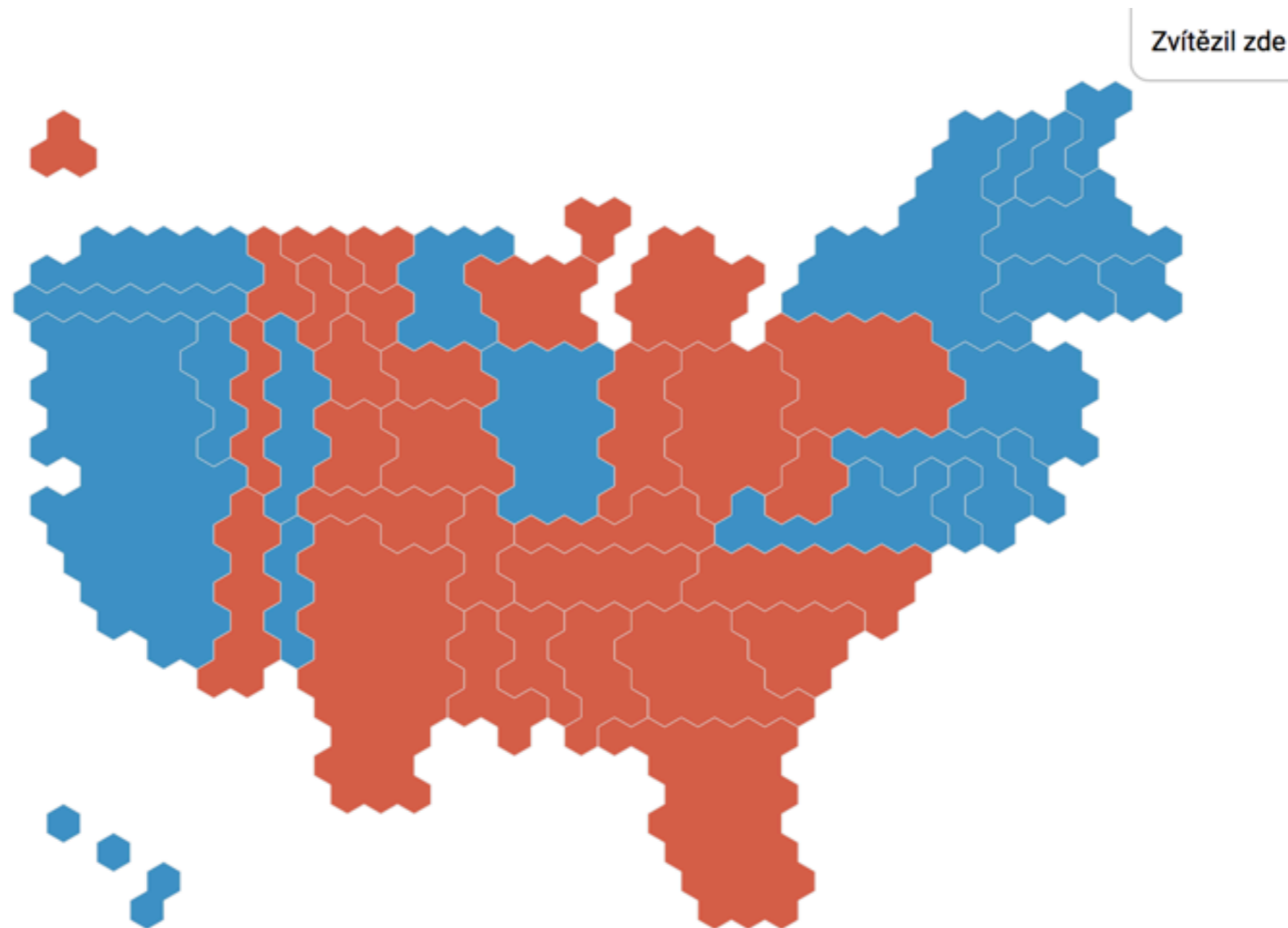


# Cartogram (Anamorfoza)

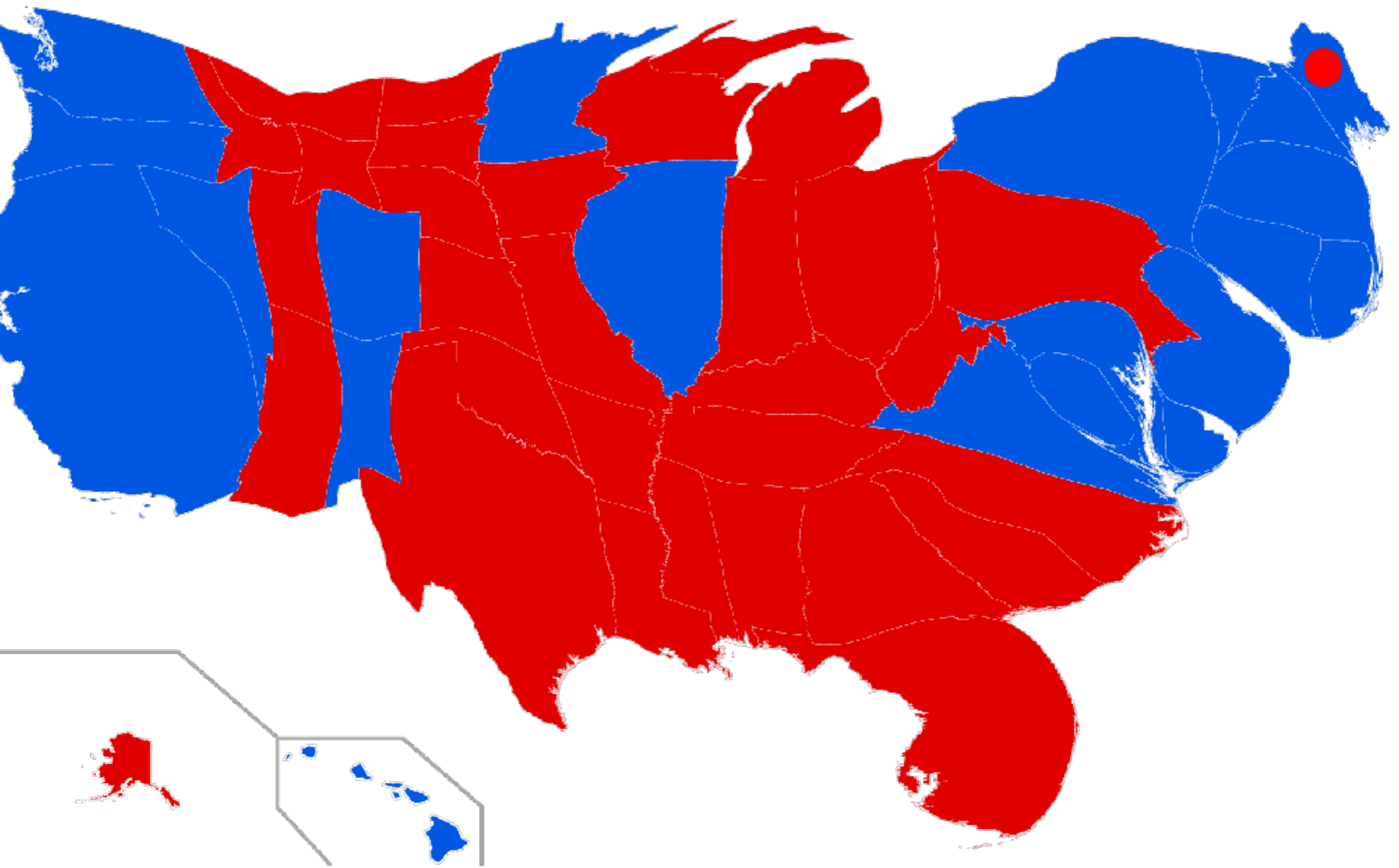




# Cartogram (Anamorfóza)





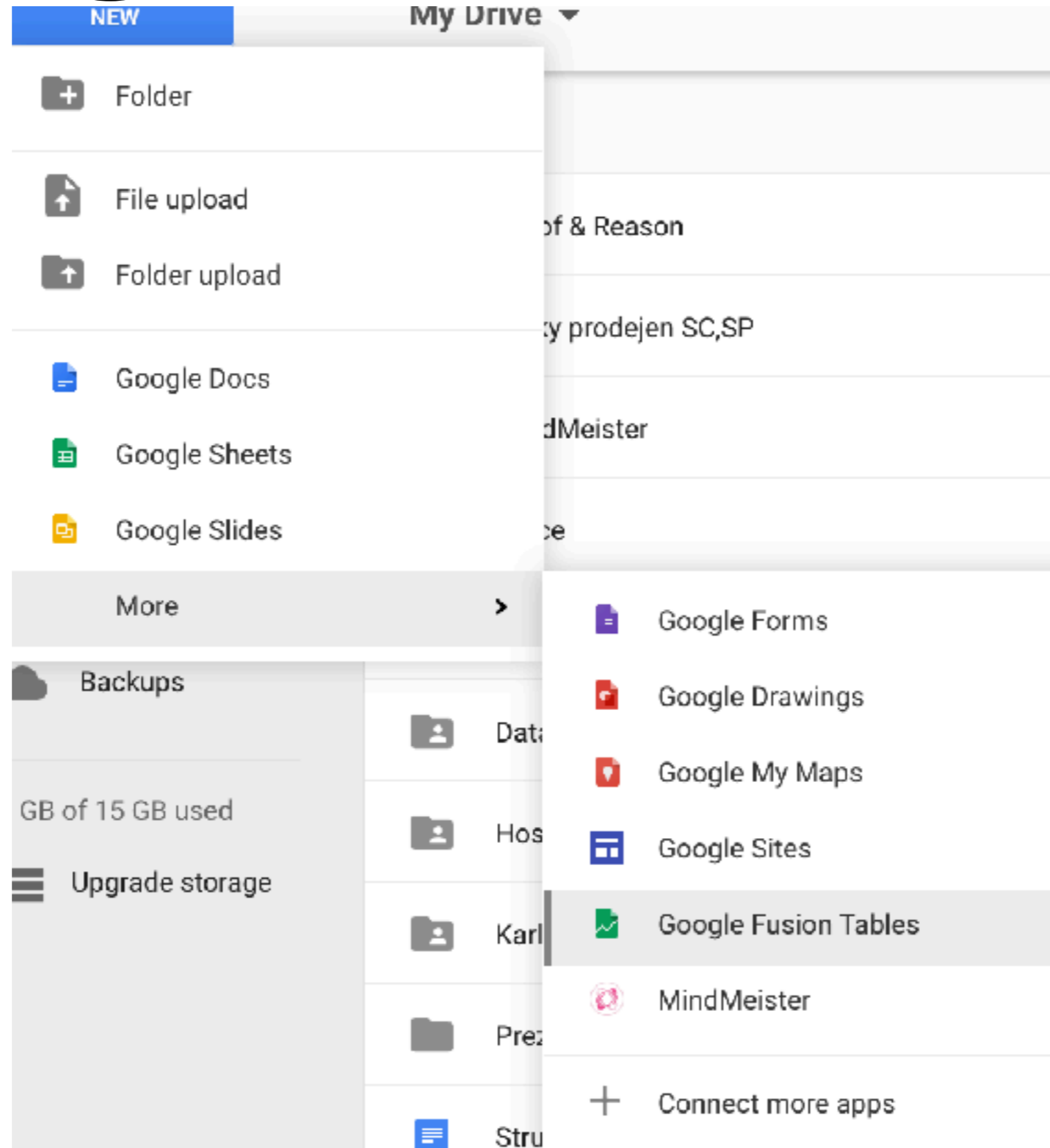


## **Doporučuji**

**[https://en.wikipedia.org/wiki/United\\_States\\_presidential\\_election,\\_2016#Maps](https://en.wikipedia.org/wiki/United_States_presidential_election,_2016#Maps)**



# Google Fusion Table



# chbrno.jdem.cz

- udělejte si kopii tabulky
- otevřete si ji v Google Fusion Table
- zkuste si vytvořit heatmapu

### Configure map

Location Adresa

Feature map

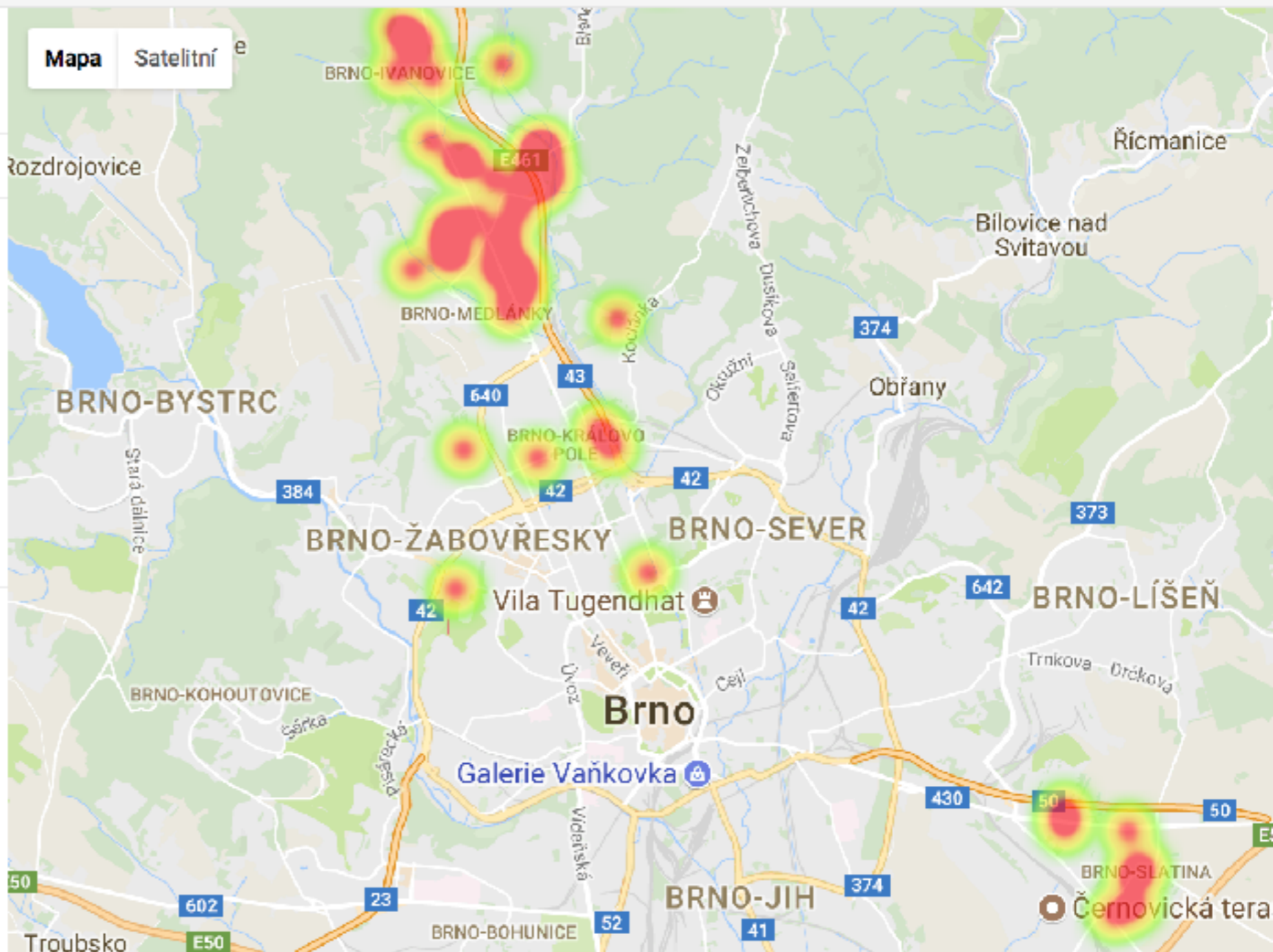
Heatmap

Radius 19

Opacity 60%

Weight No weighting

[Learn more](#)



krajelegenda.jdem.cz

krajekml.jdem.cz

- **udělejte si kopie tabulek**
- **otevřete si krajelegenda v google fusion table**
- **připojte (merge) k nim geometrie jednotlivých krajů**

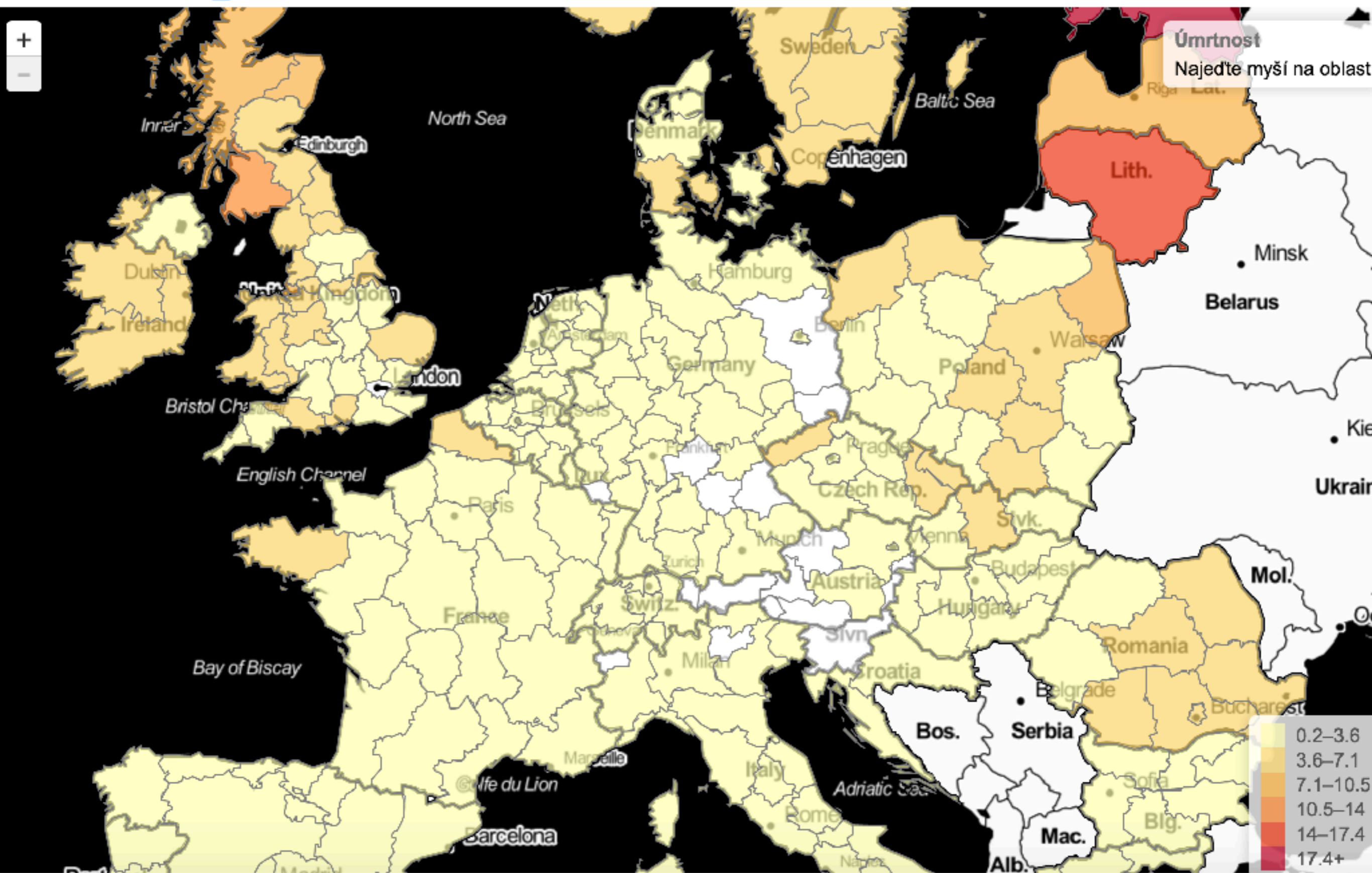


# Merge

O co jde: [https://support.google.com/fusiontables/answer/171254?  
hl=en](https://support.google.com/fusiontables/answer/171254?hl=en)

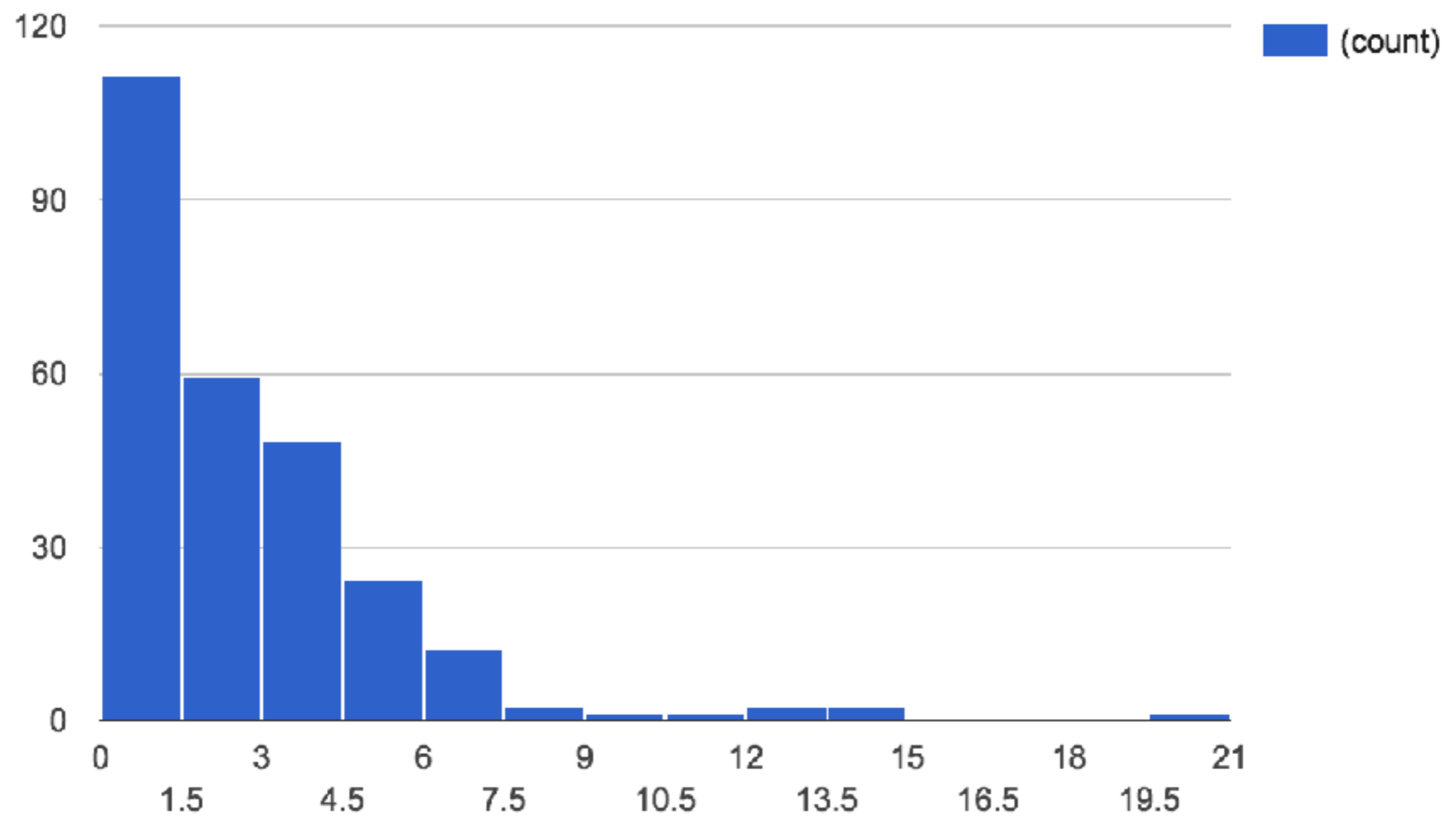
Tutorial: <https://www.youtube.com/watch?v=U8nLbr-813g>

# **Volba intervalů**



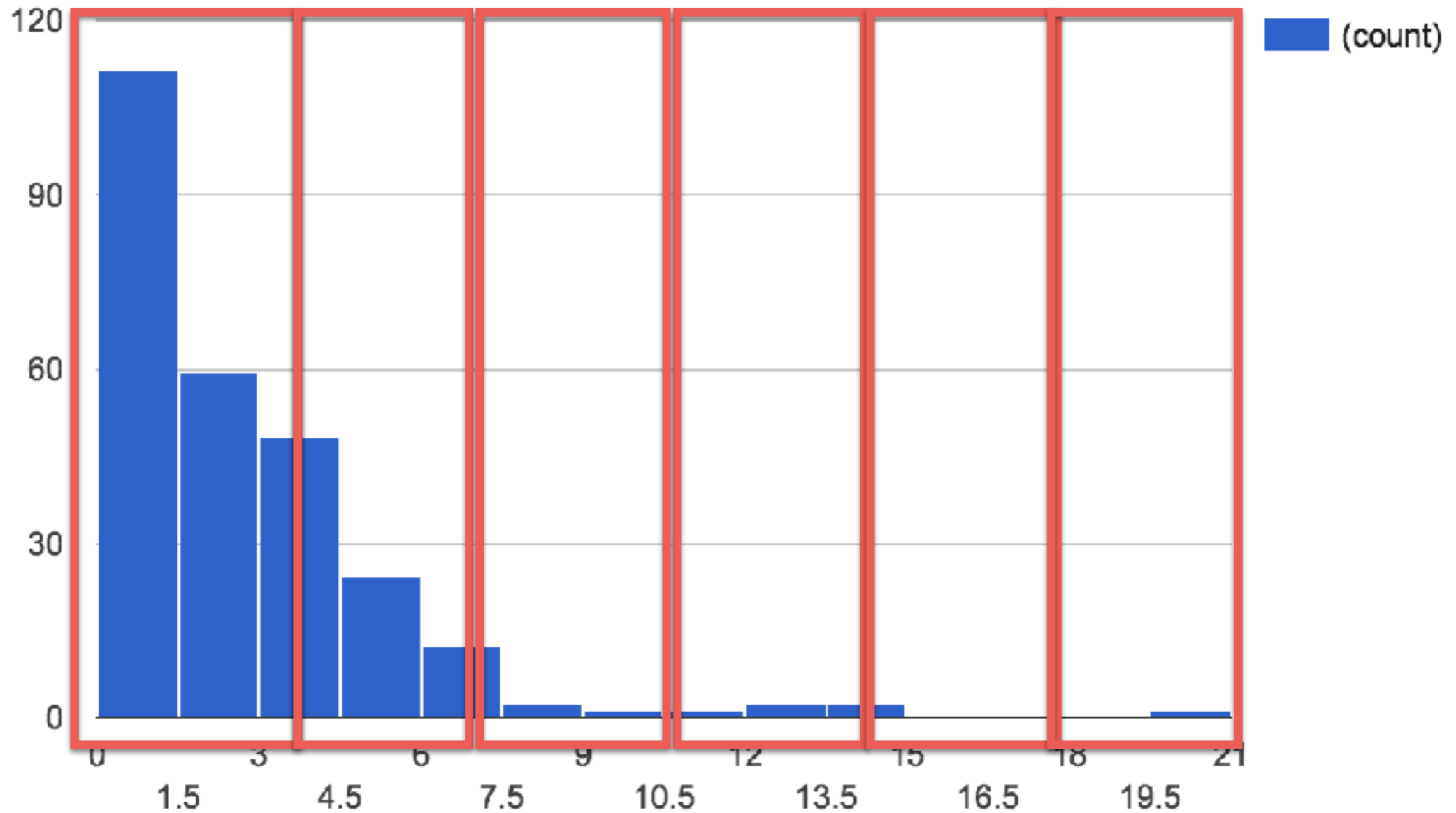
Zdroj: [https://www.irozhlas.cz/zpravy-z-domova/na-co-a-kde-se-v-evrope-nejcasteji-umira-podivejte-se-na-podrobnou-mapu\\_1610200800\\_jab](https://www.irozhlas.cz/zpravy-z-domova/na-co-a-kde-se-v-evrope-nejcasteji-umira-podivejte-se-na-podrobnou-mapu_1610200800_jab)

# Histogram





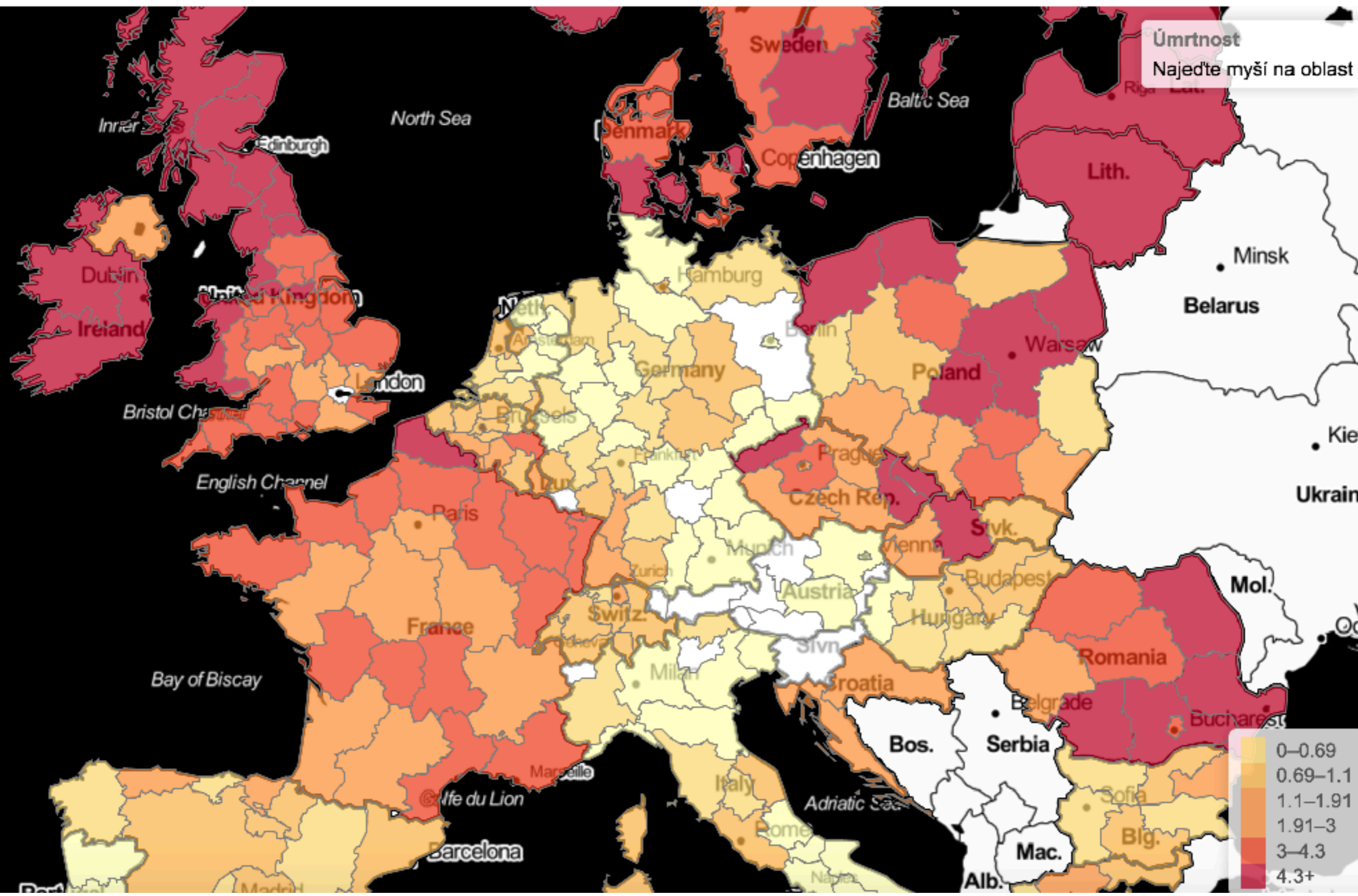
## Histogram



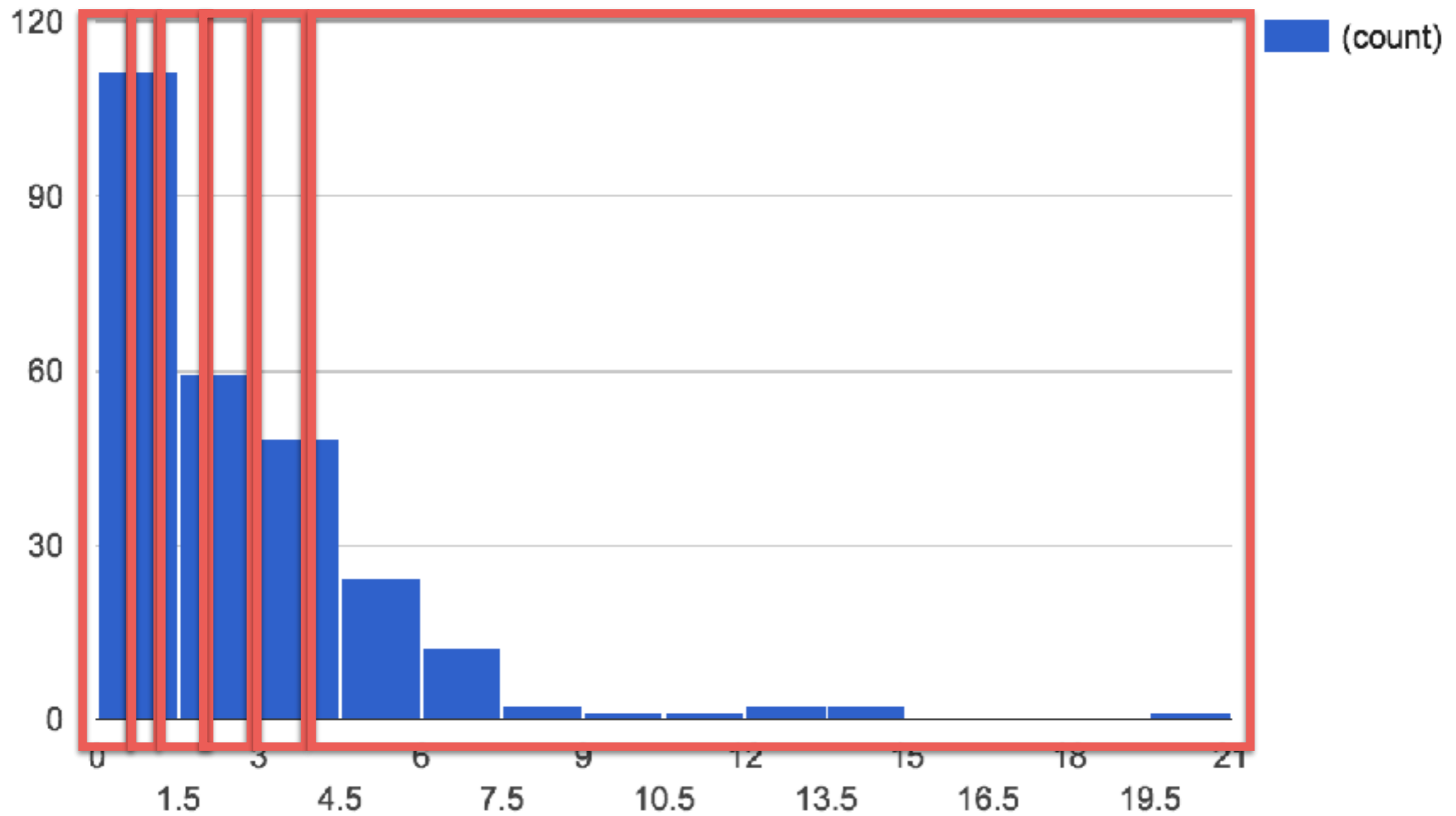
**Interval "nejmenší hodnota" - "nejvyšší hodnota" je rozdělen na X stejně velkých částí. Více jak polovina všech území skončí v jednom intervalu, tedy vizuálně nerozeznatelně**



Úmrtnost  
Najedte myši na oblast

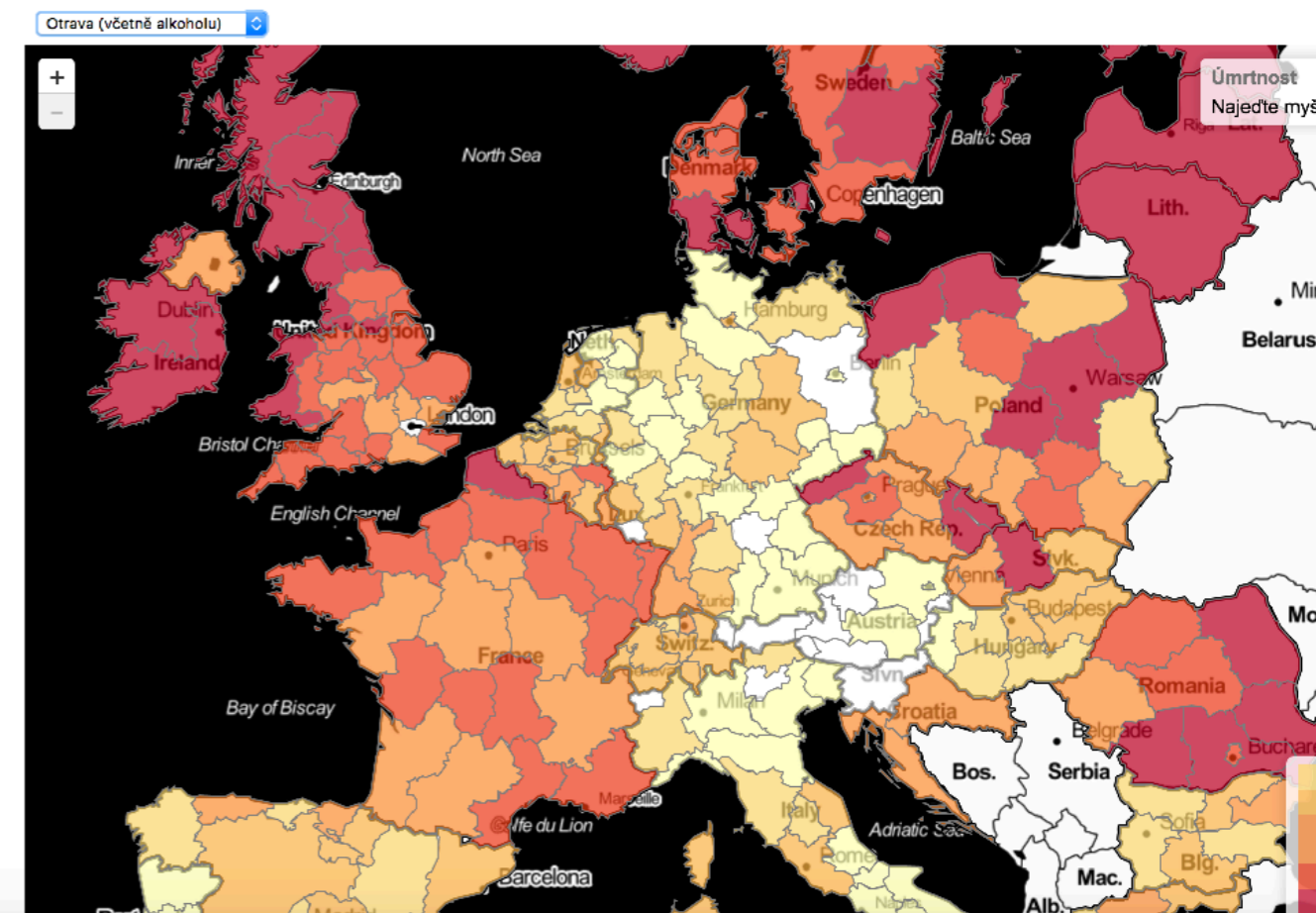
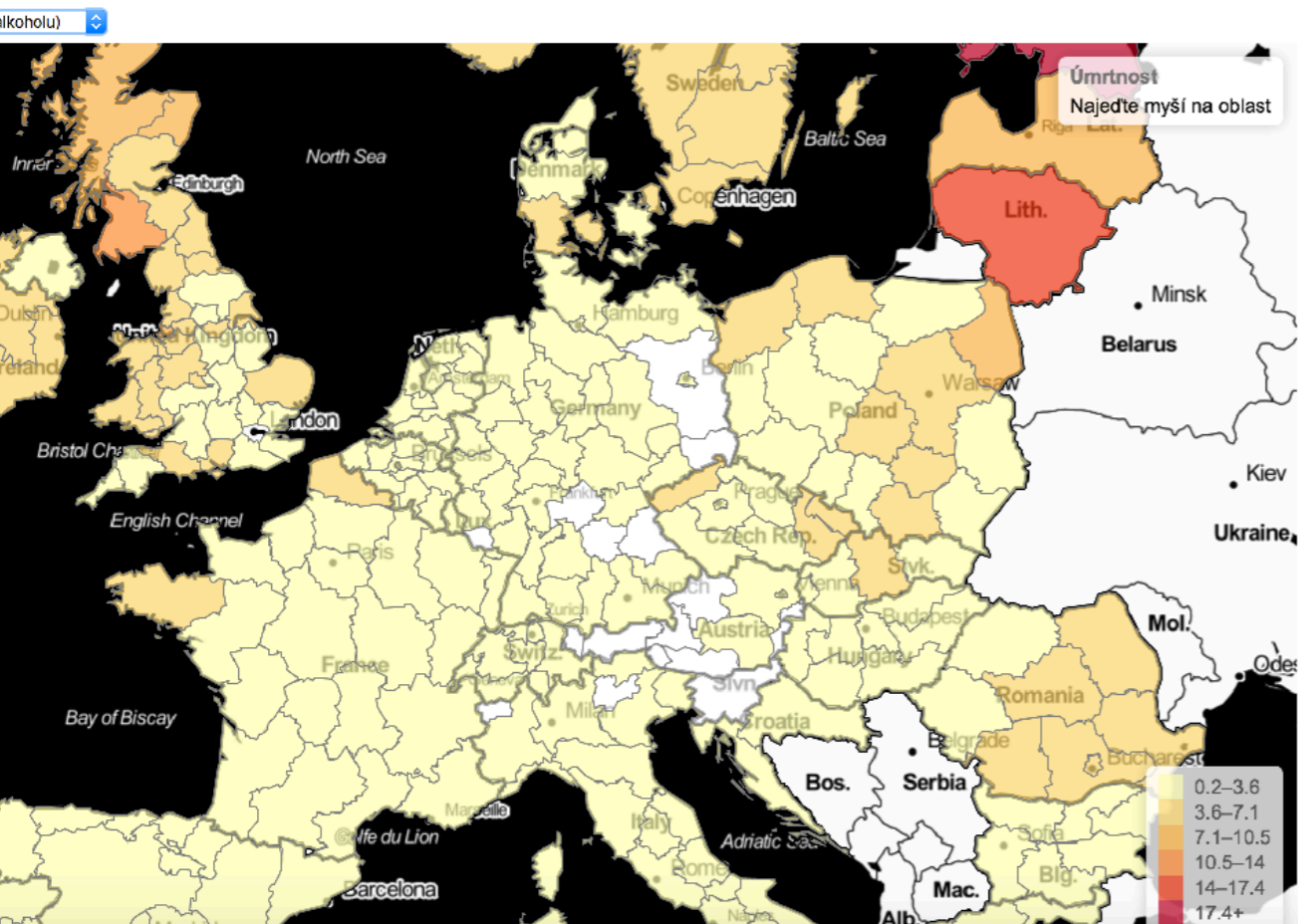


## Histogram



**V každém intervalu je stejný počet hodnot. Extrémní hodnoty splynou s "normálními"**

**Různá volba intervalů vede k různým "příběhům".  
Ani jeden přístup není špatný/dobrý, vždy záleží na kontextu a účelu**



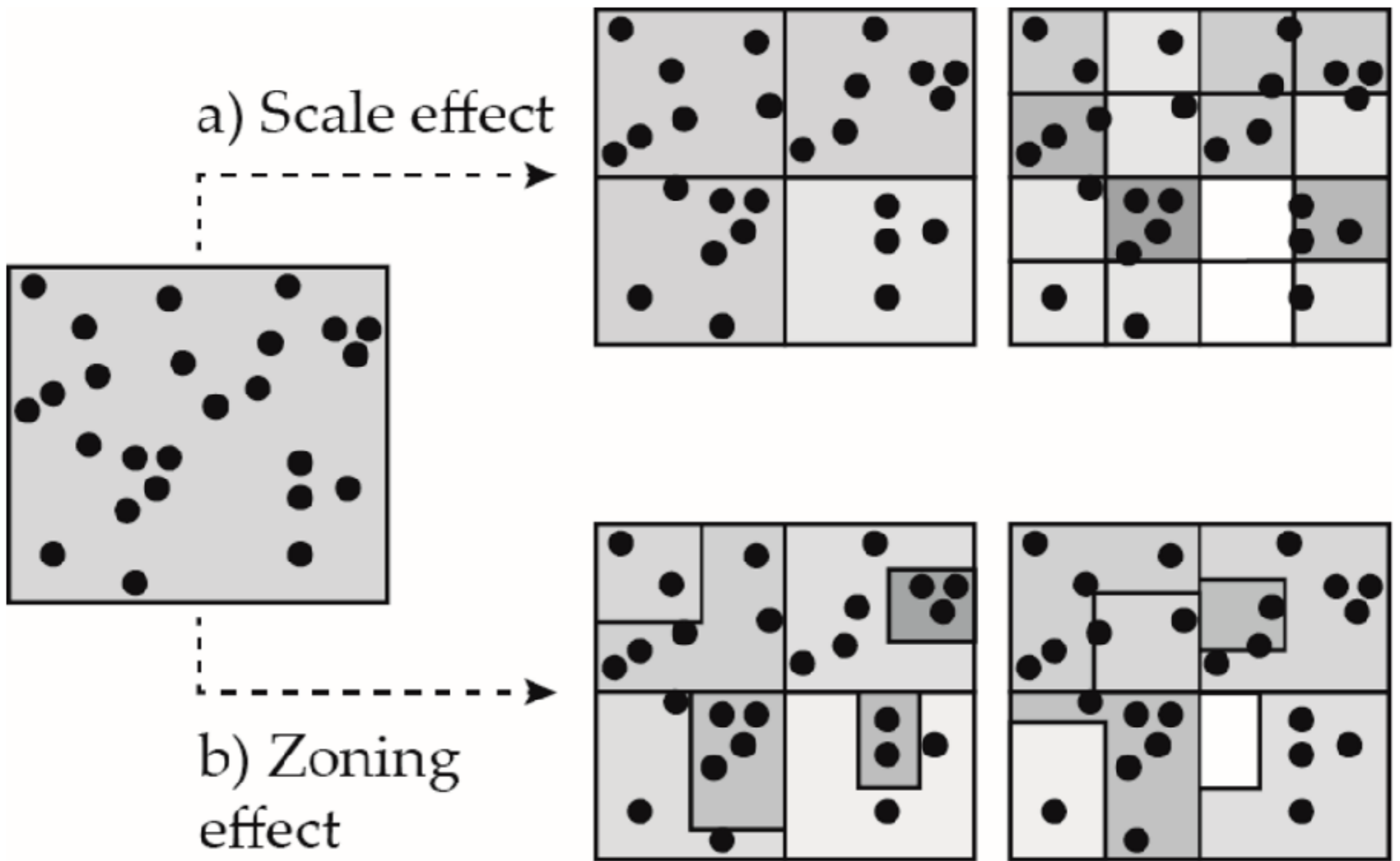
# Volba intervalů

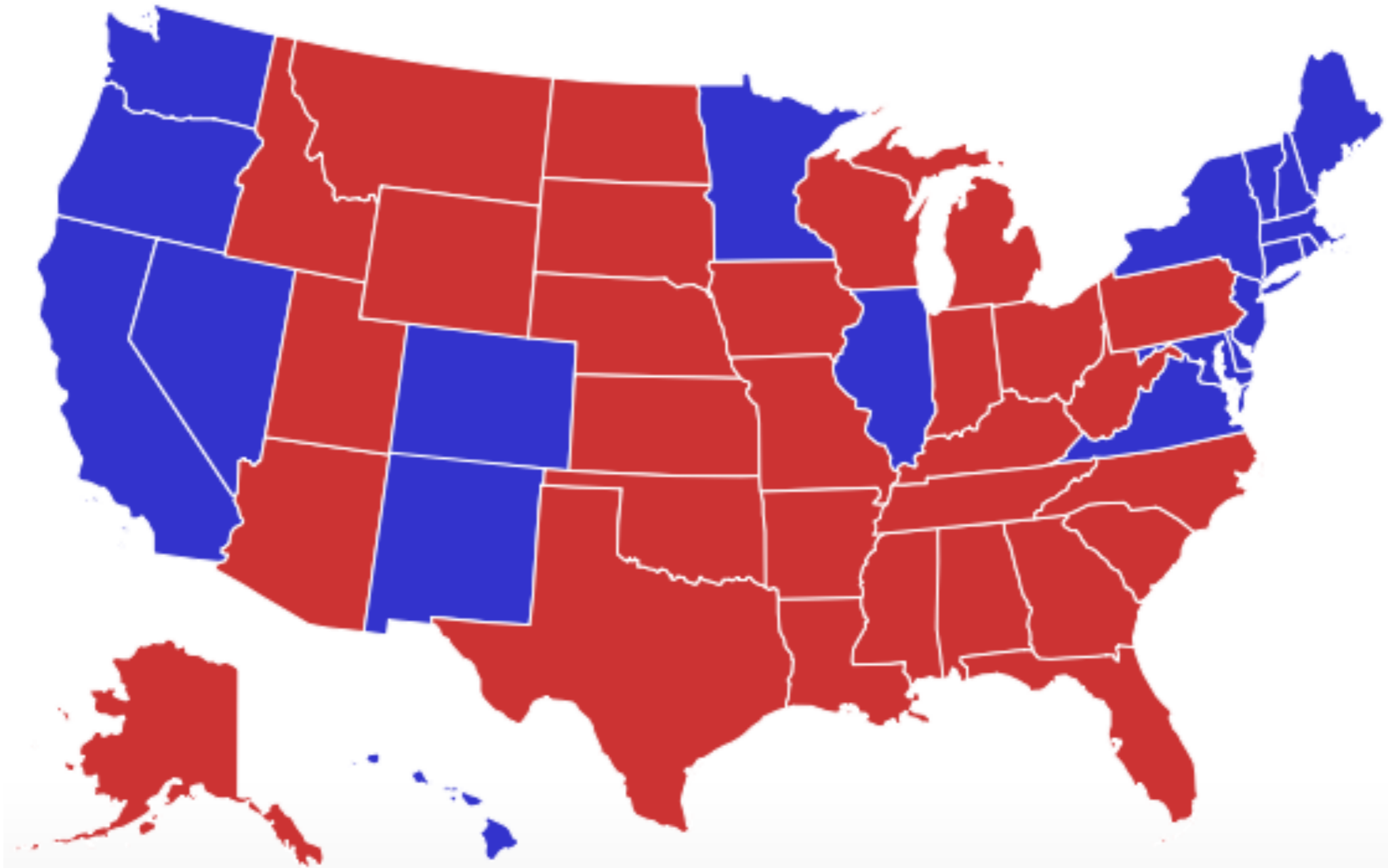
- "Maximálně šest" (empirická rada) - více už stejně člověk špatně rozliší
- Možnosti:
  - kvantily
  - rovnoměrné
  - "ručně"
- Více viz <https://knightcenter.utexas.edu/mooc/CartographyForJournalists.pdf>

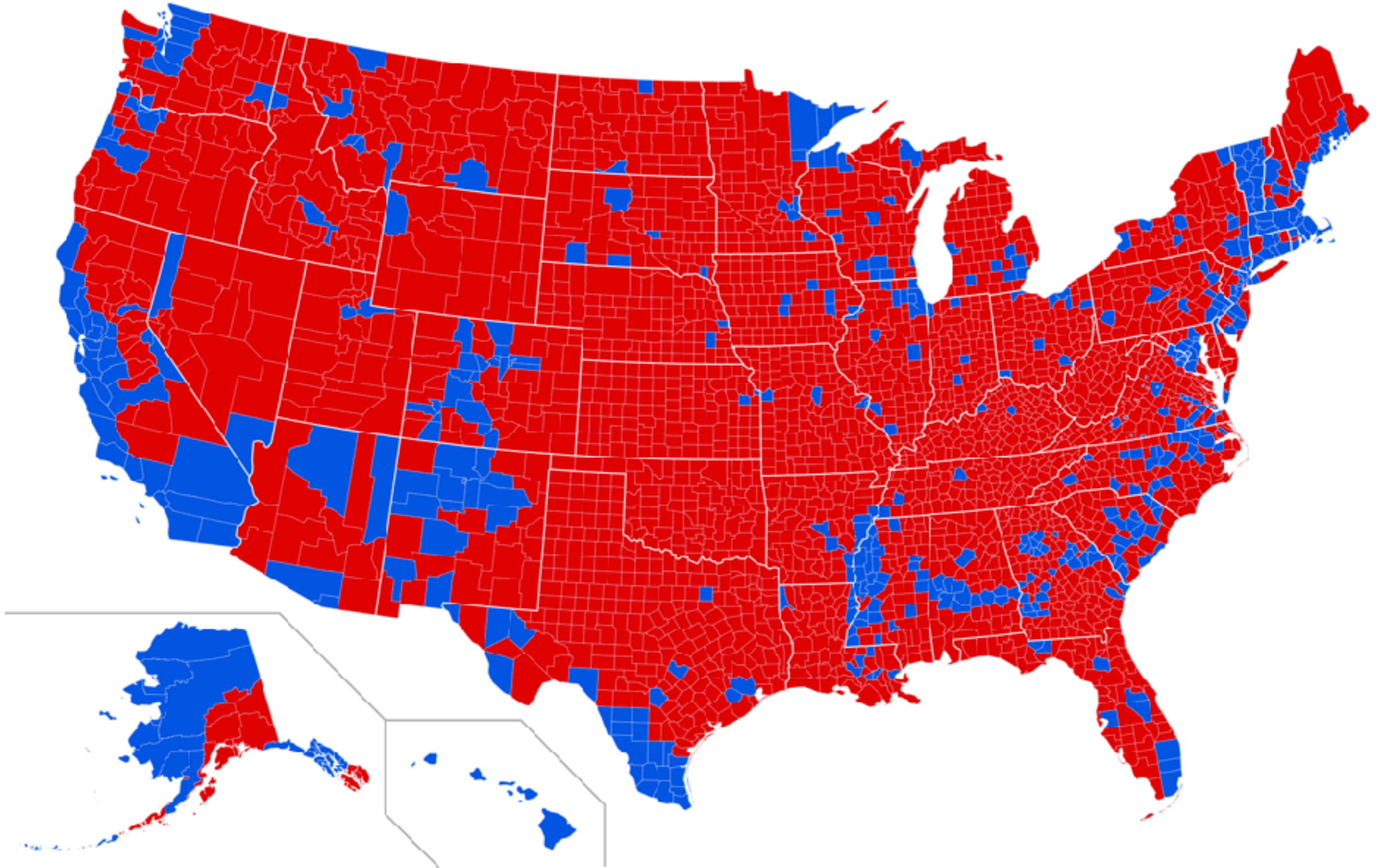


**MAUP**

**Modifiable areal unit problem**  
/  
**Problém měnitelné plošné jednotky**

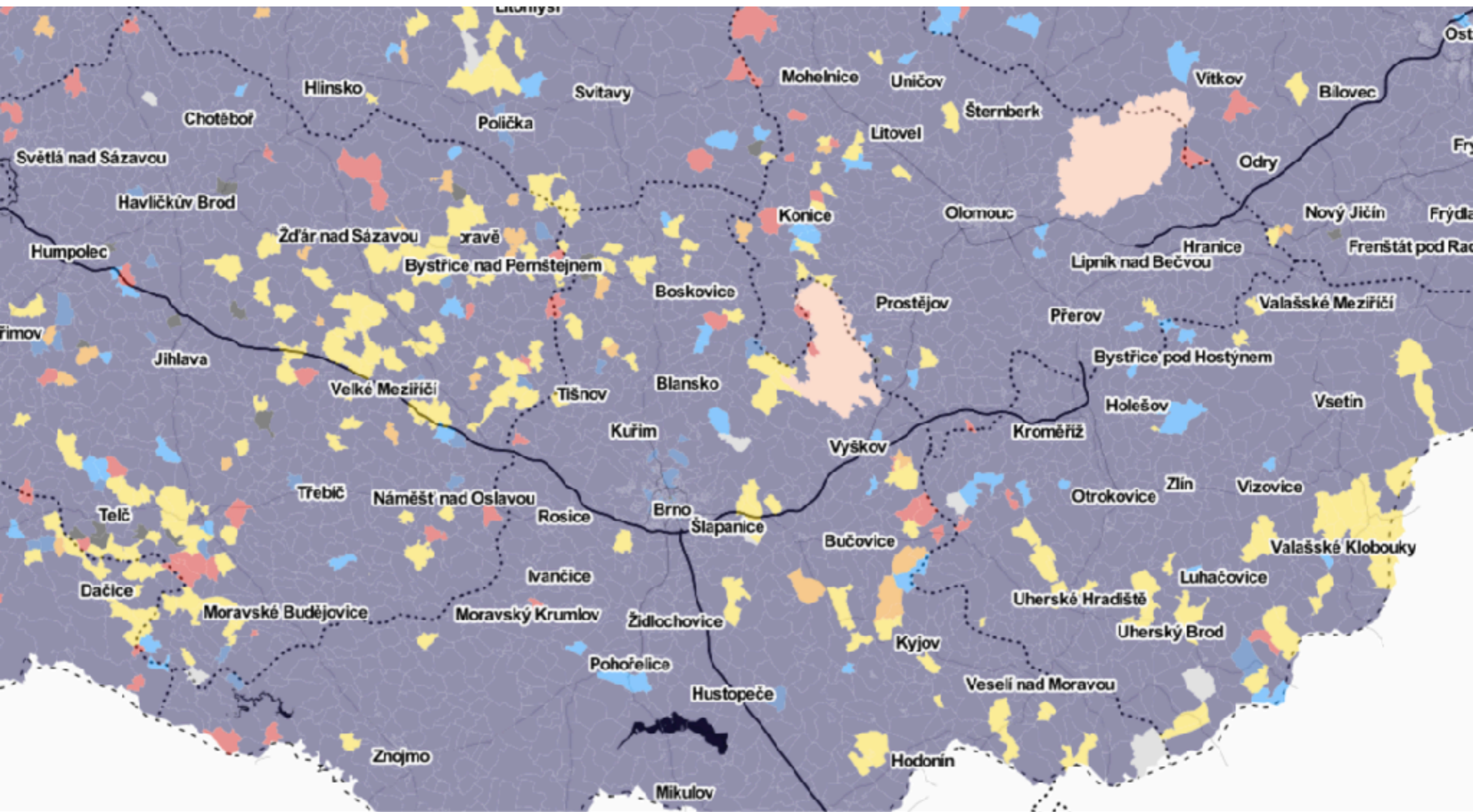




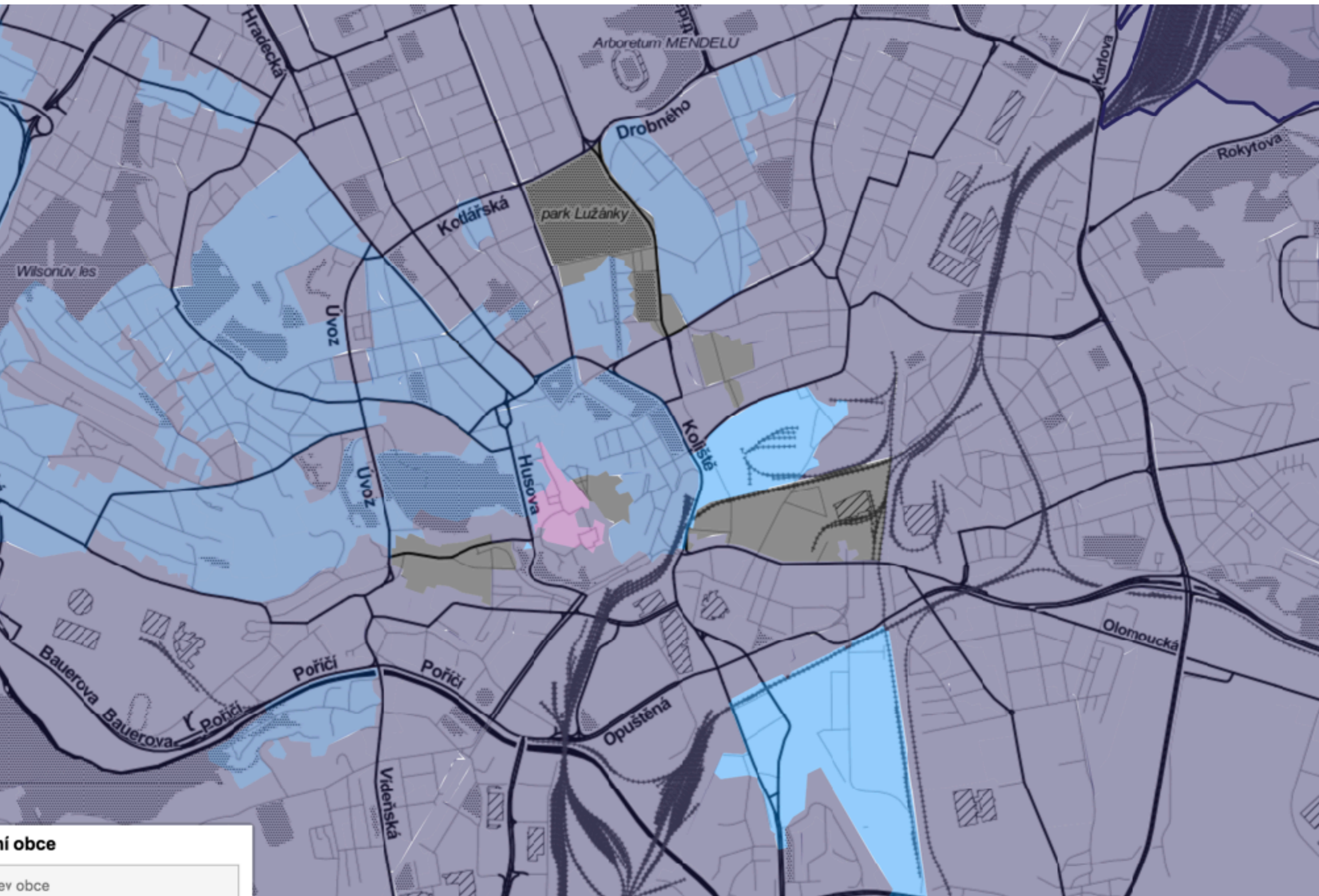










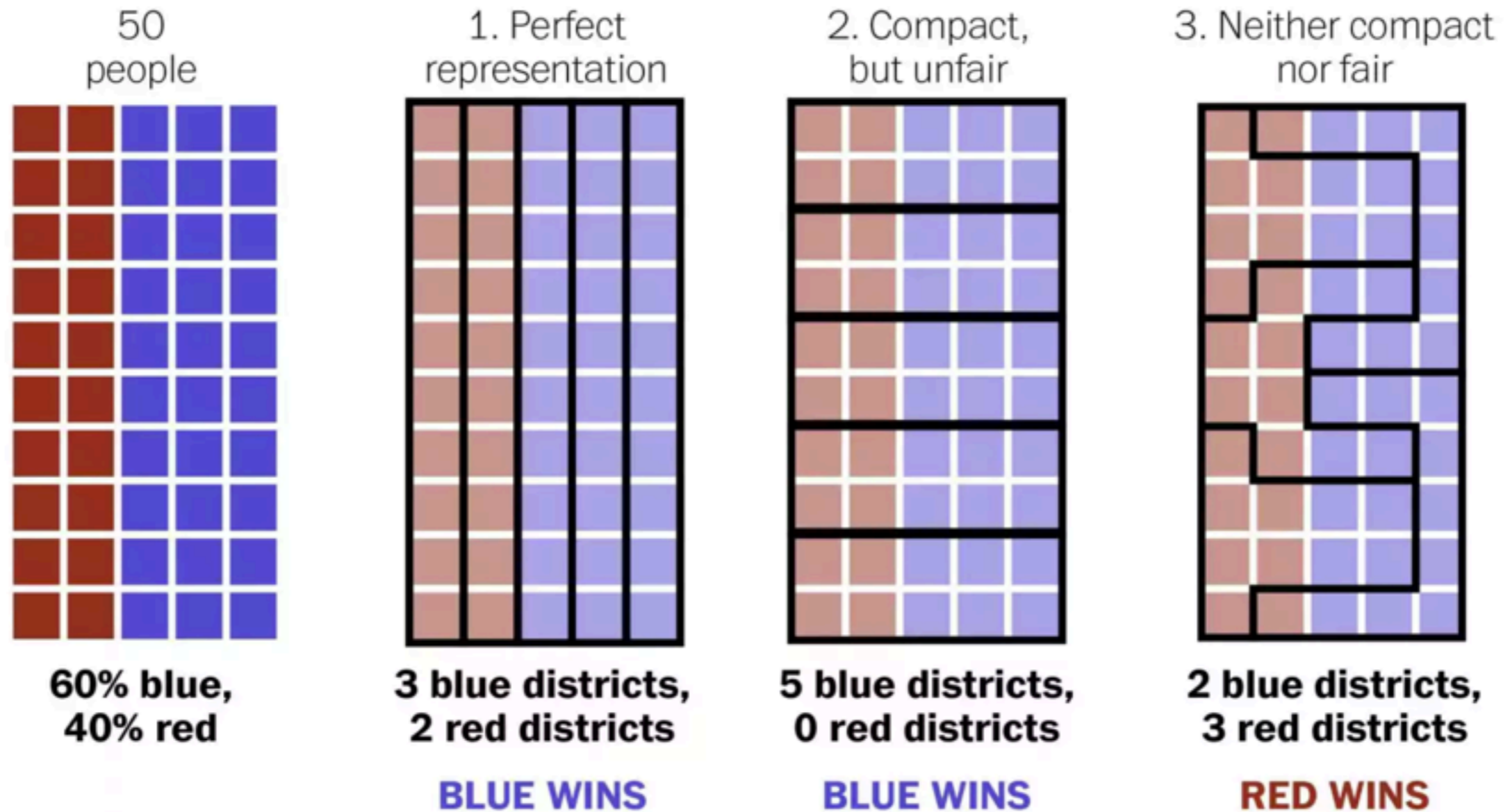


ni obce

ev obce

# Gerrymandering, explained

Three different ways to divide 50 people into five districts



WASHINGTONPOST.COM/**WONKBLOG**

Adapted from Stephen Nass

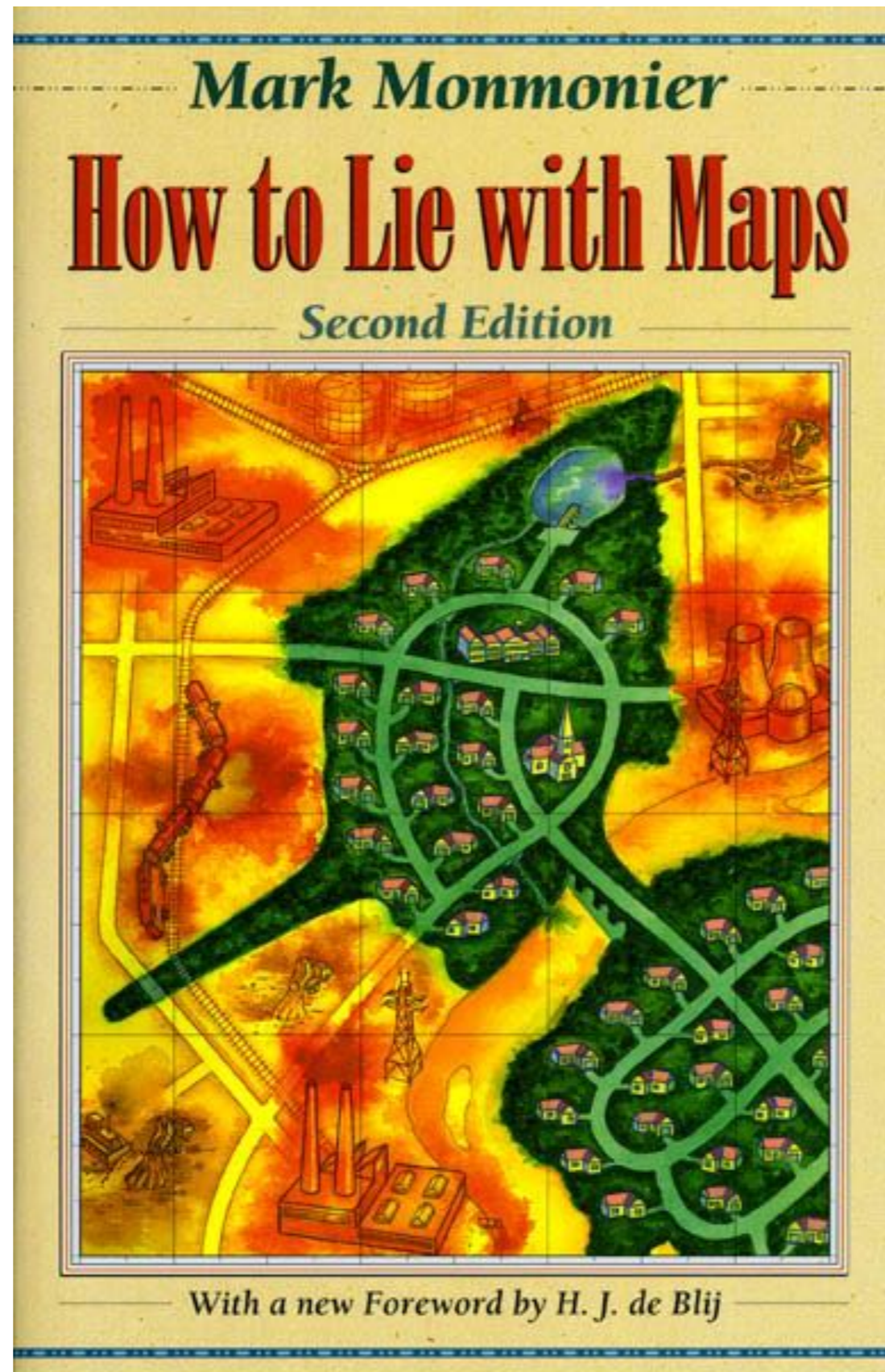
Zdroj: <https://www.washingtonpost.com/news/wonk/wp/2015/03/01/this-is-the-best-explanation-of-gerrymandering-you-will-ever-see/>

# Knihovny

- <https://vdb.czso.cz/vdbvo2/faces/cs/index.jsf?page=statistiky>
- v sekci Kultura, sport -> "Knihovny - územní srovnání"
- exportovat do XLSX (ikonka diskety vpravo nahoře)
- očesání tabulky o nepotřebné řádky, sloupce,...
- otevření v Google Fusion Table
- Merge geometrie krajů



# Doporučená literatura



# Doporučená literatura

<https://knightcenter.utexas.edu/mooc/CartographyForJournalists.pdf>