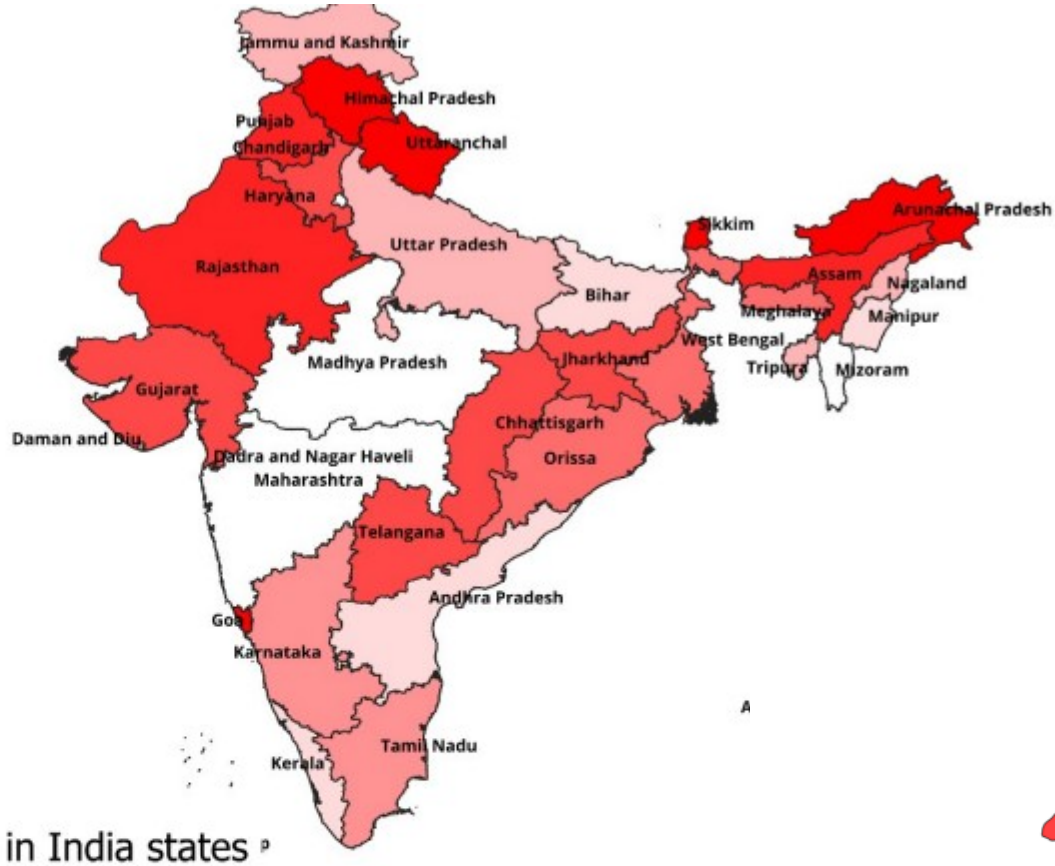
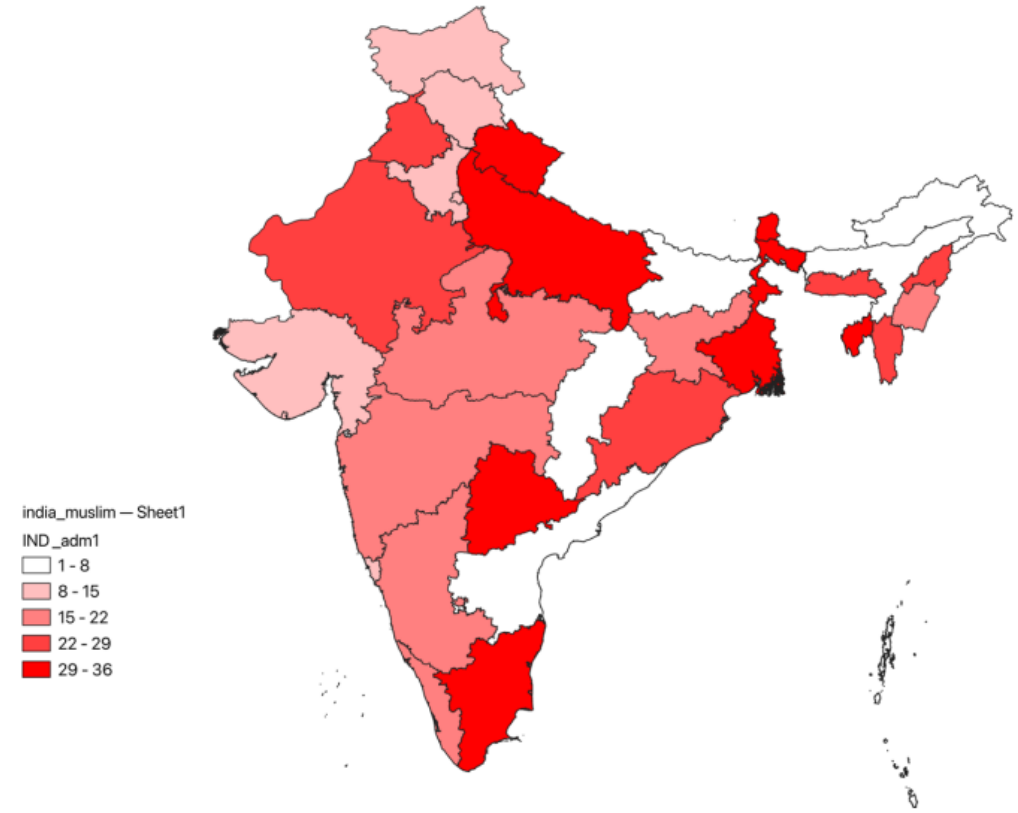


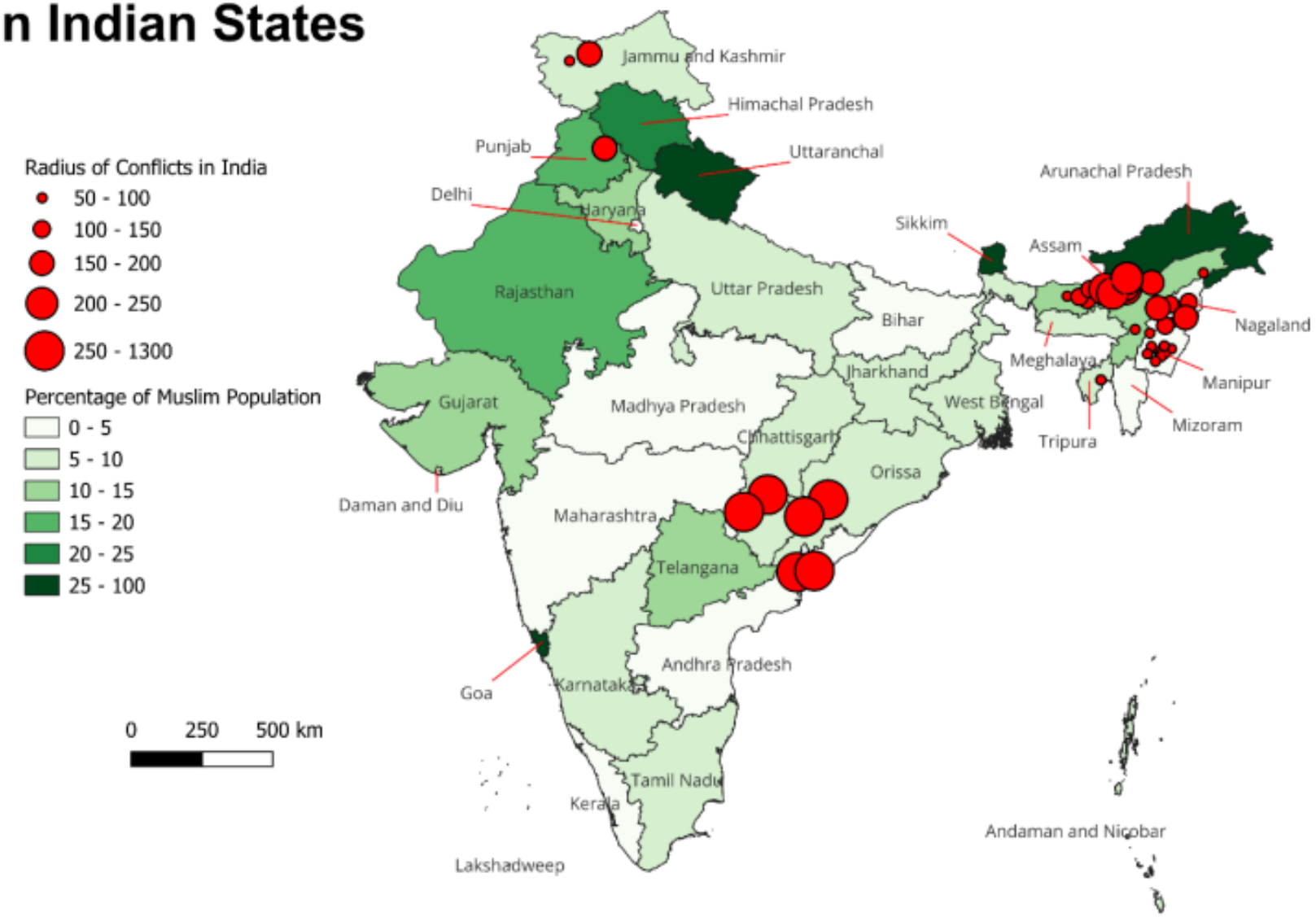

Distribution of muslim population in India states

Indian Statistical Institute

- 1.1 - 1.8
- 1.8 - 4.5
- 4.5 - 7.2
- 7.2 - 8.4
- 8.4 - 9.9
- 9.9 - 13.5
- 13.5 - 21.2
- 21.2 - 100



# Distribution of Armed Conflicts and Muslim Population in Indian States



# Data visualization – Text

# The first step

- Text has to be turned into data
- Quantitative coding
  - Human coding
  - „automatic“ (machine processed) coding
    - Almost always inclde some decision of human
    - Frequency analysis (Wordclouds)
    - Sentiment analysis - Is the text positive or negative?
    - Topic models - what topics are in the text(s)
    - Analysis of readability (how complex the text is?)
    - Analysis of „positions“

- Allocating recording units to substantial categories
  - Classifying each coded unit of text from the sample according to the category scheme
    - Coding scheme
      - Before coding (deductive)
      - During coding (inductive)
    - Unit: page, paragraph, sentence, quasisentence

# Quasi-sentence

- an argument or phrase which is the verbal expression of one idea or issue
- One sentence may include more ideas, one idea may be divided into more sentences.

- I am going to buy bread, milk and apple.

- I am going to buy bread.
- I am going to buy milk.
- I am going to buy apple.

# Text elements

- Paragraphs
  - Sentences
    - Quasi-sentences
      - N-grams
        - Words
          - Lemma
          - token

# Problems

- Language
- Tenses, adjective, male/female
- Common words (stopwords)
- Reliability of human coding
- Different understaning by different coders
- Noise in automatic coding

# Wordcloud

(c) Bush

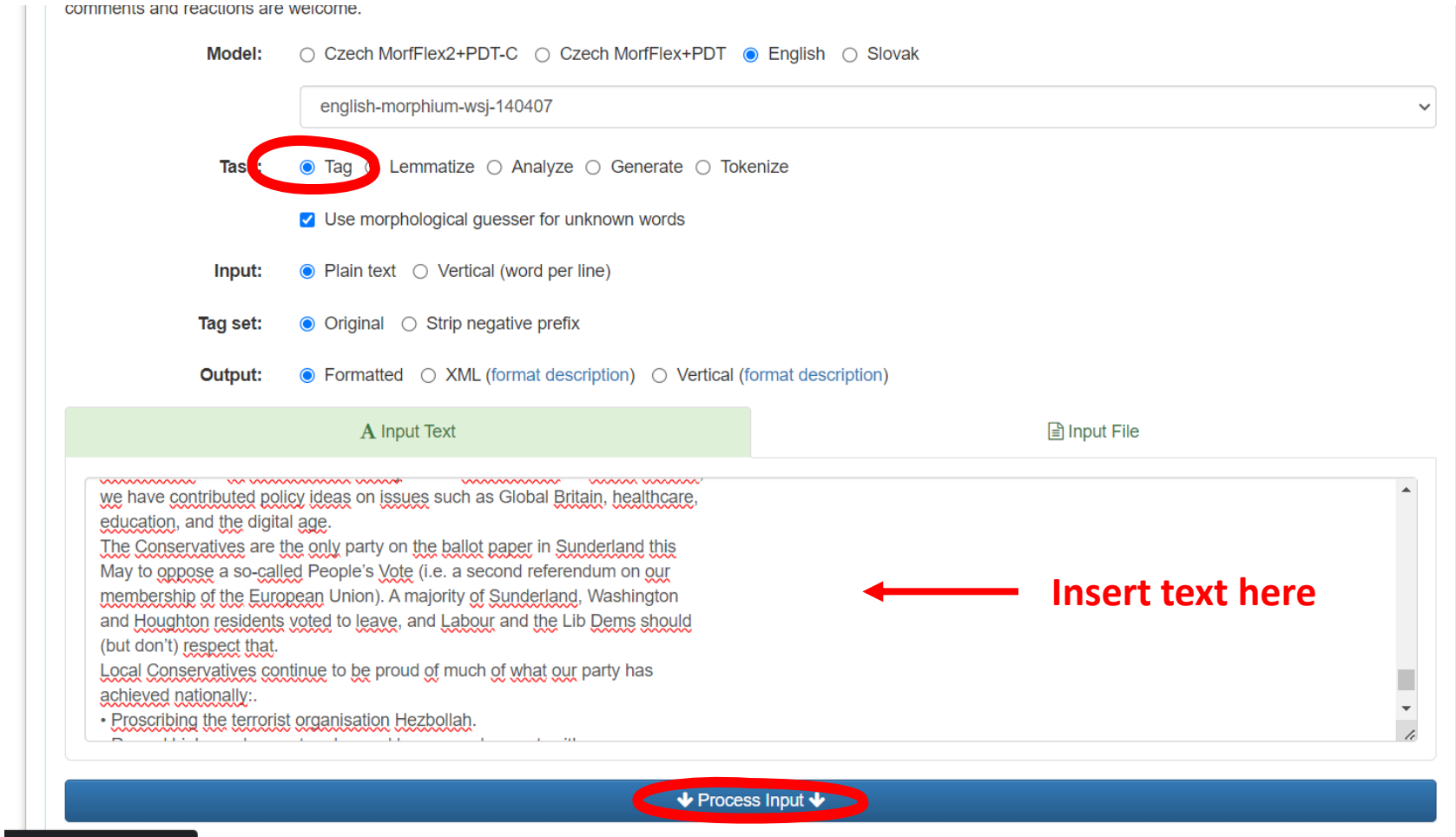
(d) Obama

# World cloud procedure

- Find a text
- Do lemmatization

# lemmatization

- https://lindat.mff.cuni.cz/services/morphodita/

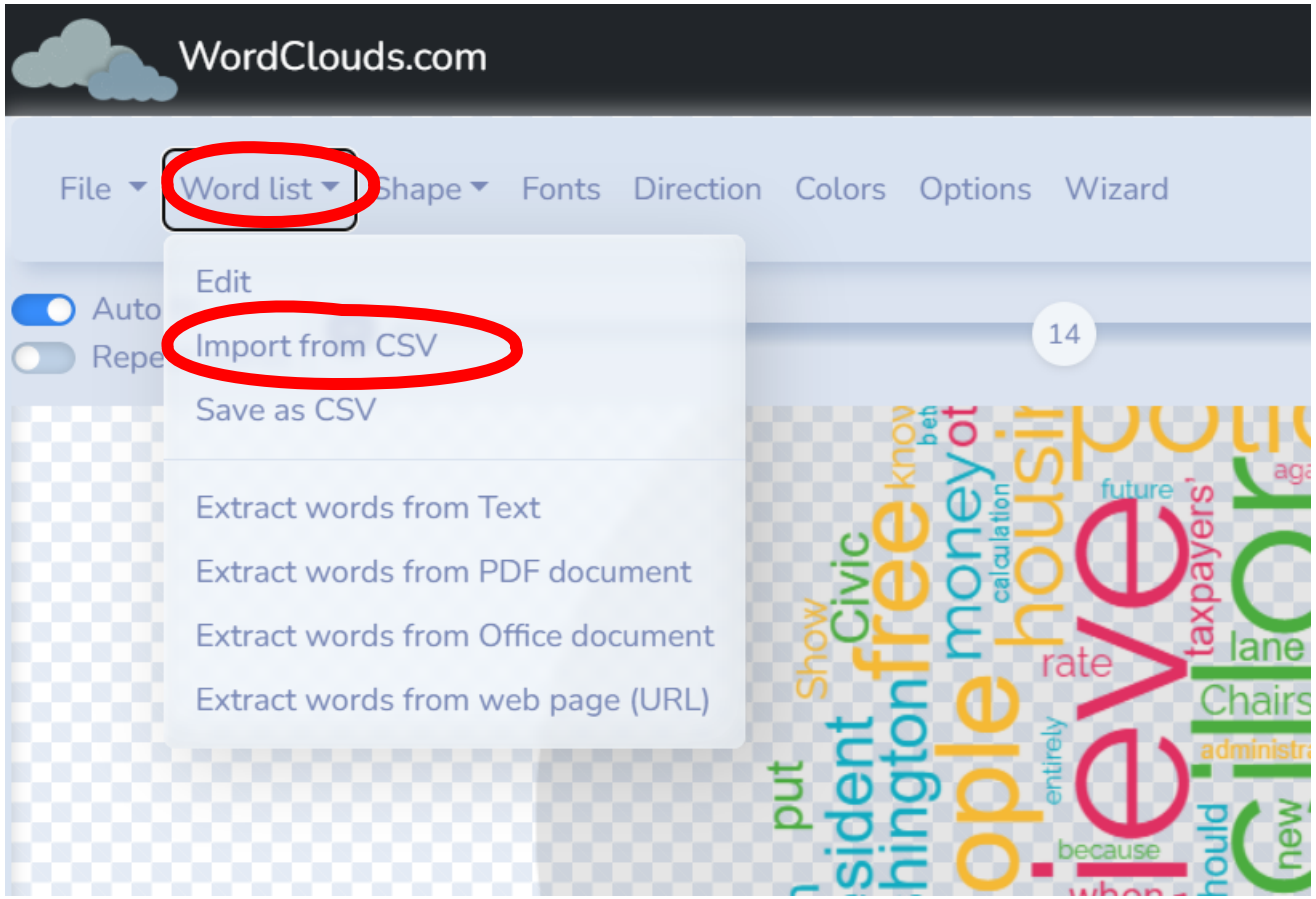


# Count and clean in excel

- Copy table „output“ into excel (export into xlm is not working well)
- Use subtotal or pivot table to count the words
- Delete stop words
  - Words which do not make difference between clouds
- The, a, an, it, I, we, they, their, have, for, in,…

- Save as csv with names:
- weight word color url
  - Weight is count, color and url may be empty

# https://www.wordclouds.com/



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Community
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policy
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cabinet
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back
future
taxpayers'
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relate
Civic
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Partnership
Partner
Technology
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Social
Labour
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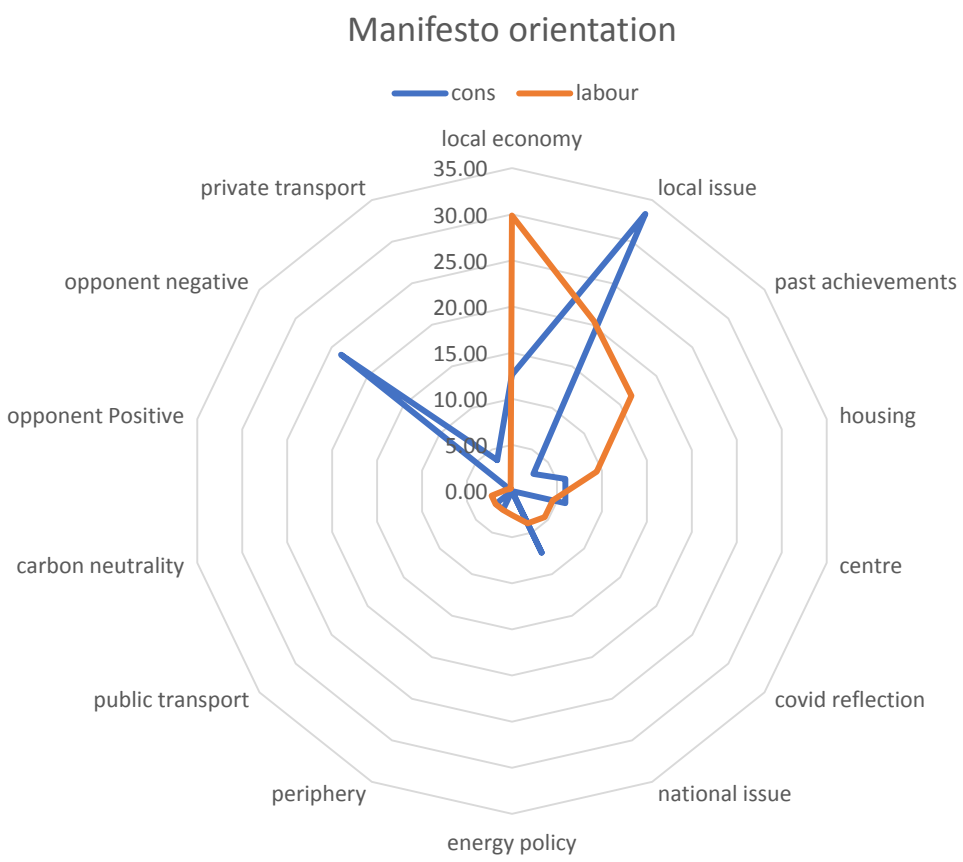
investment
up
now
improve
need
financial

- The cloud can be made from text without processing in excel
- Low control over stopwords

- Do not use crazy colors, shapes and text orientations
- Use the same font for all words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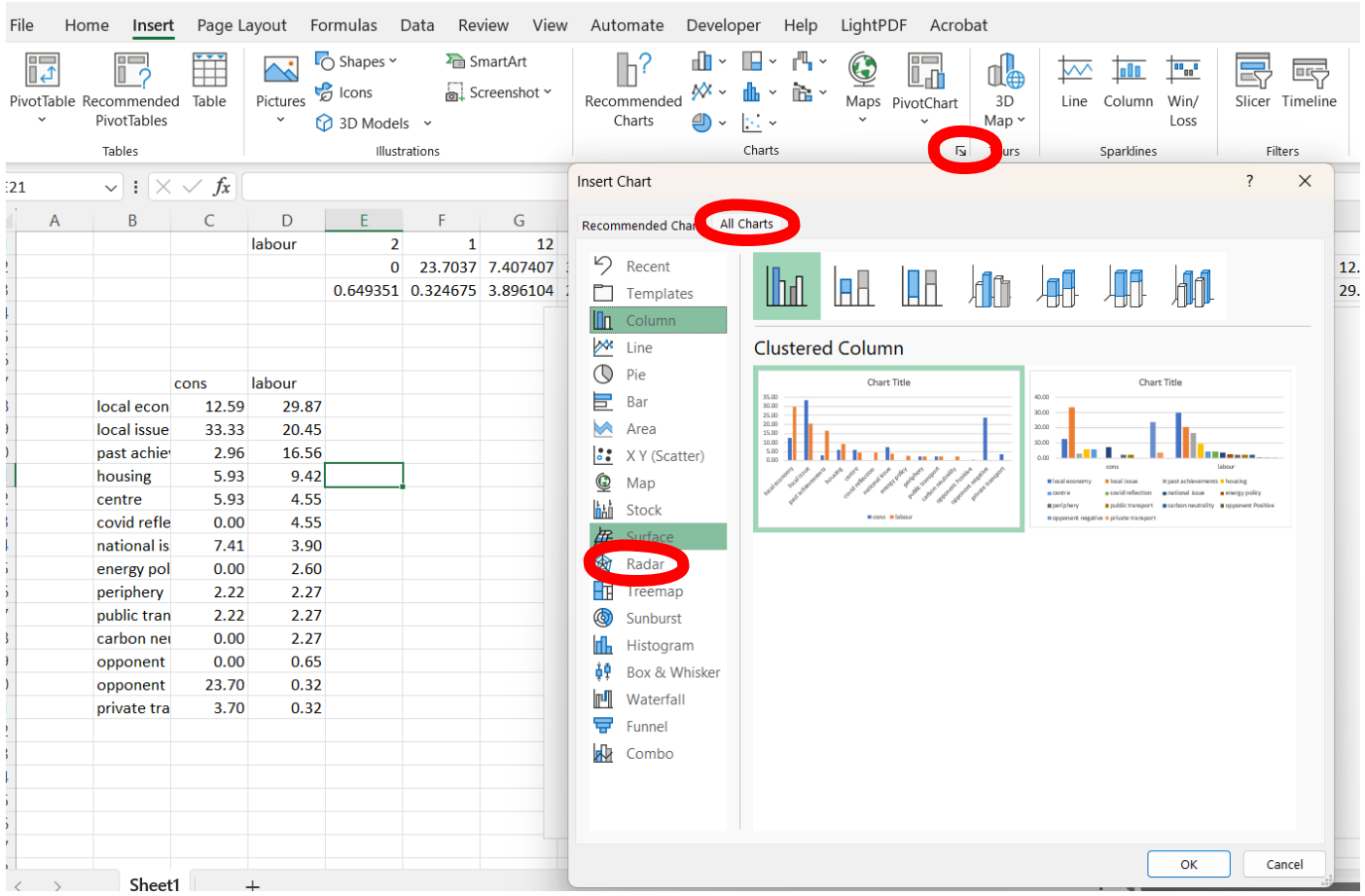
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PivotTable Recommended PivotTables Table
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Illustrations
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3D Map
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Sparklines
Slicer Timeline
Filters
Insert Chart
Recommended Charts All Charts
Recent Templates Column Line Pie Bar Area X Y (Scatter) Map Stock Surface Radar Treemap Sunburst Histogram Box & Whisker Waterfall Funnel Combo
Clustered Column
Chart Title
OK Cancel
Sheet1