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```
1 !pip install pyLDAvis
2 !pip install gensim
3 !pip install --upgrade numpy
4 !pip install pandas==1.5.3
```

1/2 1. Data acquisition, description, and preparation 2.Research Question

The research question I aim to explore with topic modeling is: "**How did regional parties in the UK, along with UKIP, adapt and respond to the realities of Brexit post-referendum?**" I would like to delve into the understanding of the thematic shifts and focuses in party manifestos and communications during a crititcal point in UK politics. In using the Latent Dirichlet Allocation (LDA) by examining the frequency and co-occurrence of words across various texts, the LDA can reveal the dominant themes and concerns in these political manifestos. My dataset, comprising of seven party platforms from 2017-2019 of UKIP, SNP, Plaid Cymru (Party of Wales), and DUP, provides a good an varied dataset for this analysis. I have chosen to go with regional parties and UKIP to together to ge to see how all parties tried to take a postive spin of Brexit regional and UKIP after the referendum. The chosen time frame captures the immediate aftermath of the Brexit referendum, a period likely to be ripe with scottish independece desire, fear in Norhtern Ireland over a hard border, worries in all regions about econmic impacts of brexit and UKIP's push for more sovereignty being a tying theme for all the parties.

▼ Import Libraries

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```
[2] 1 import os
    2 import pandas as pd
    3 import re
    4 import numpy
    5 import gensim
    6 import pyLDAvis
    7 import pyLDAvis.gensim_models
    8 from gensim.models import LdaModel
    9 from gensim.corpora import Dictionary
```