



Predicting the Source of News Articles Using NLP

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Objective

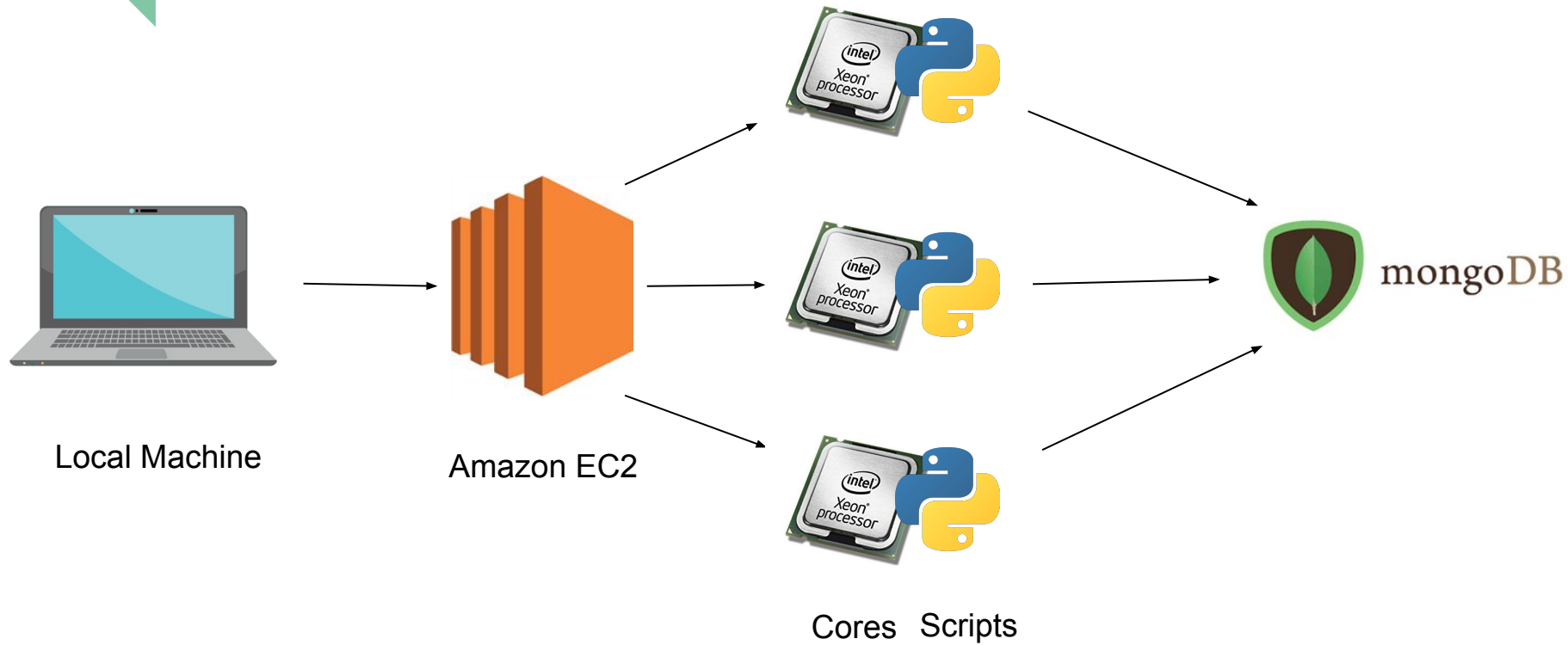
How can we predict an
article's source?



Sources

- 4092 political news articles
- 11 sources representing left, right, center, and conspiracy/fake

Process





Word stemming and stop words

They are a group of 13 highly partisan Democrats that make up the Mueller team, excluding him, (who) are trying very, very hard to frame him, to get him in trouble, when he hasn't done anything wrong



Part of speech tagging

they ~~are~~ a group ~~of~~ 13 highli partisan democrat ~~that~~ make ~~up~~ the
mueller team, exclud him, (who) ~~are~~ tri veri, veri hard ~~to~~ frame him,
~~to~~ get ~~him~~ in trouble, ~~when~~ he hasn't done anyth wrong



Dropping the nouns

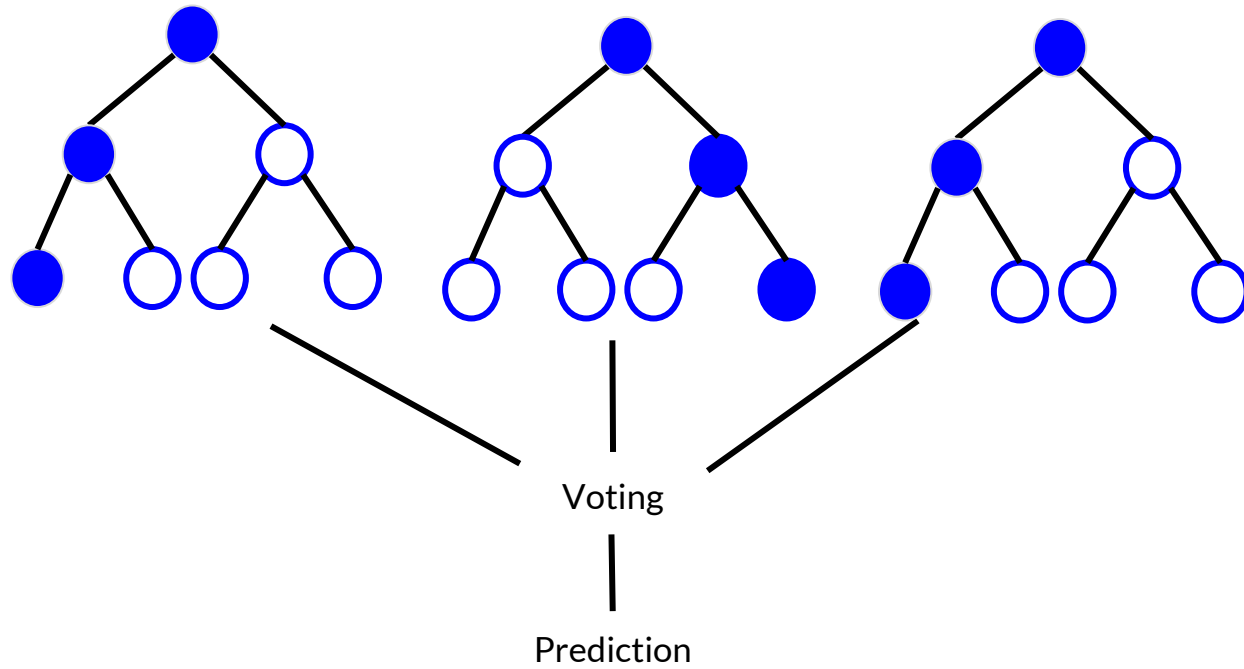
they ~~are a group of~~ 13 ~~highly~~ partisan ~~democrat~~ that make up the ~~mueller team~~, exclud him, who ~~are~~ tri veri veri hard to ~~frame him~~, to get him in trouble, ~~when he hasn't done anyth~~ wrong

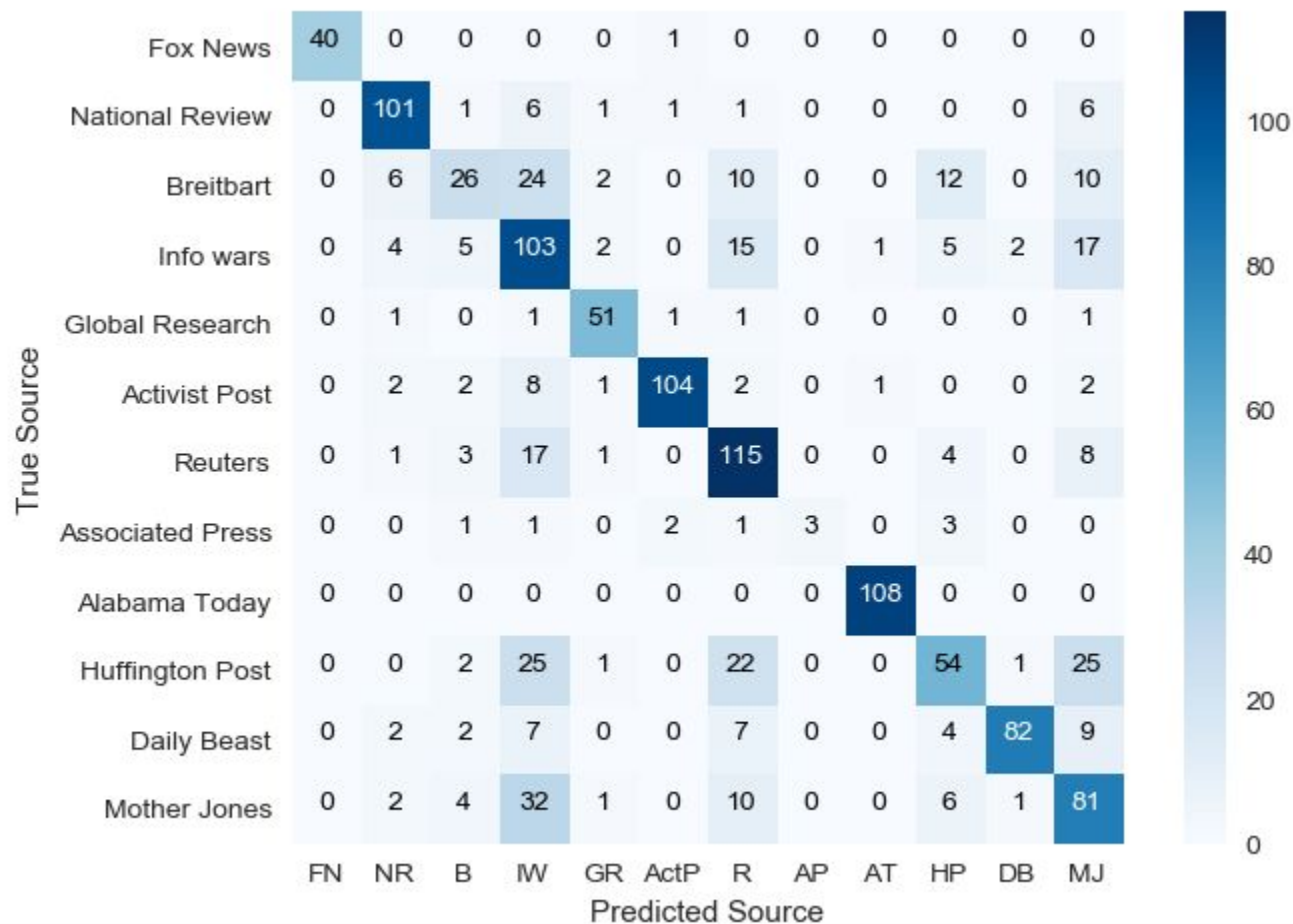


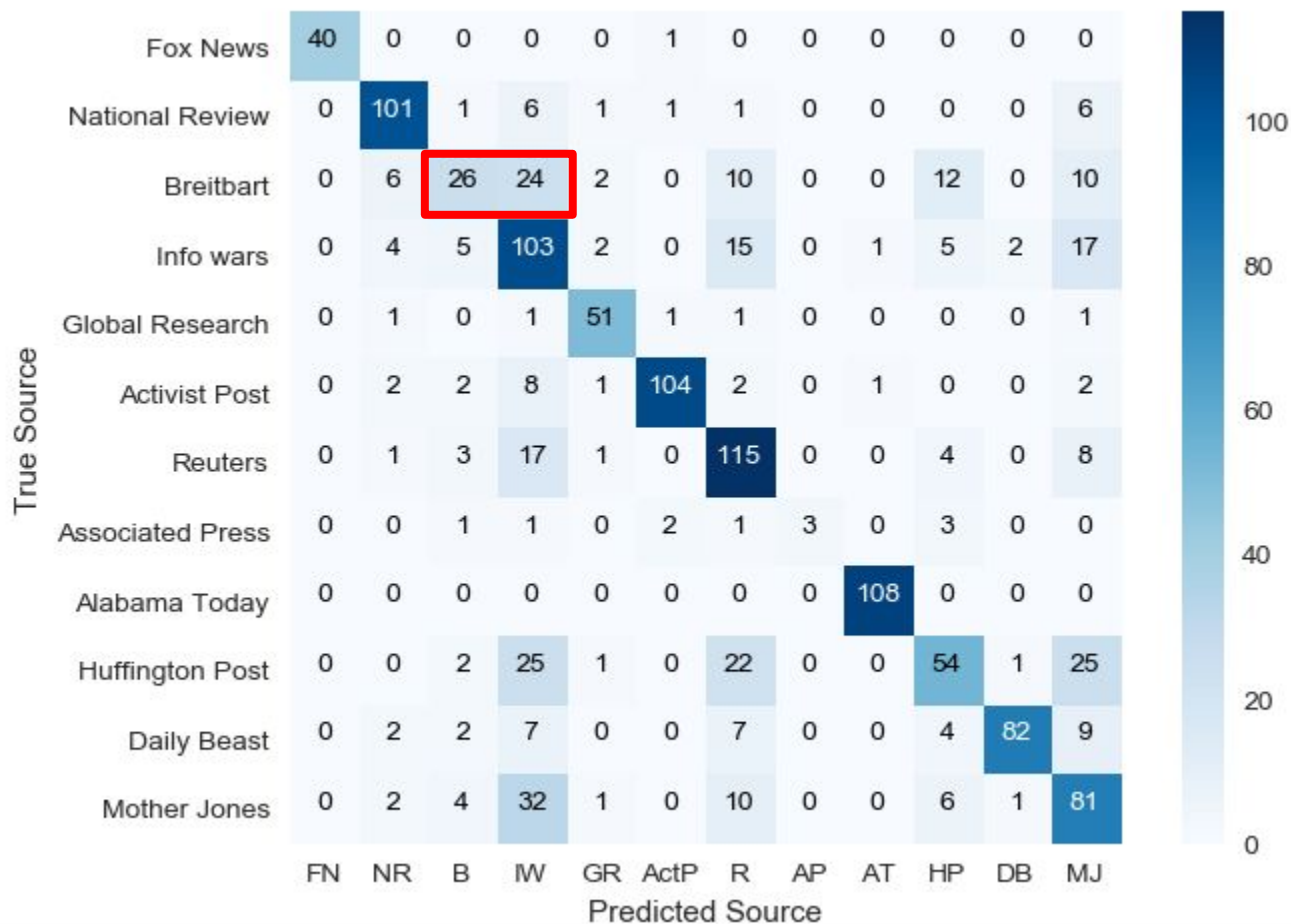
Dropping the nouns

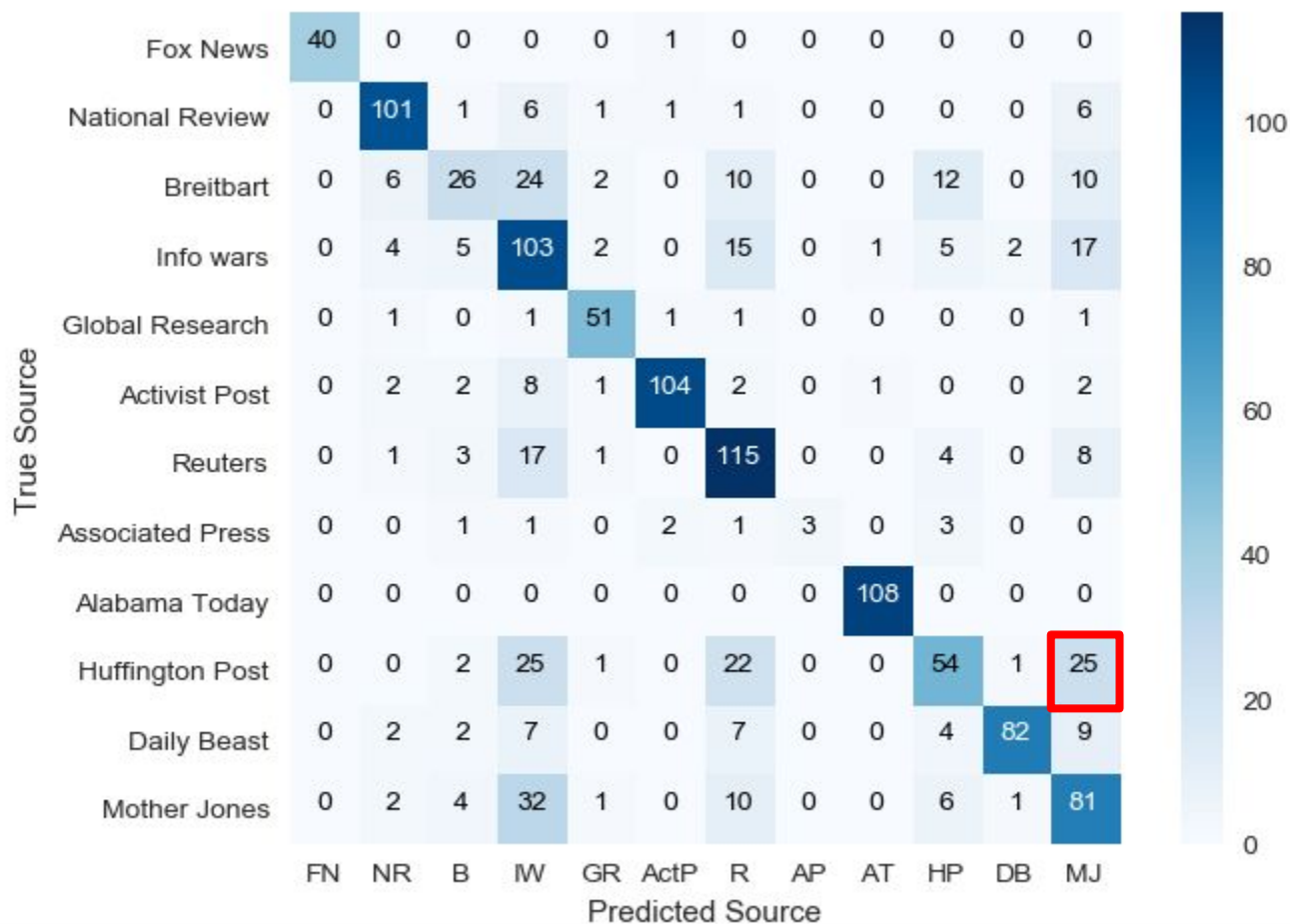
they 13 partisan make exclud who tri very veri hard get done wrong

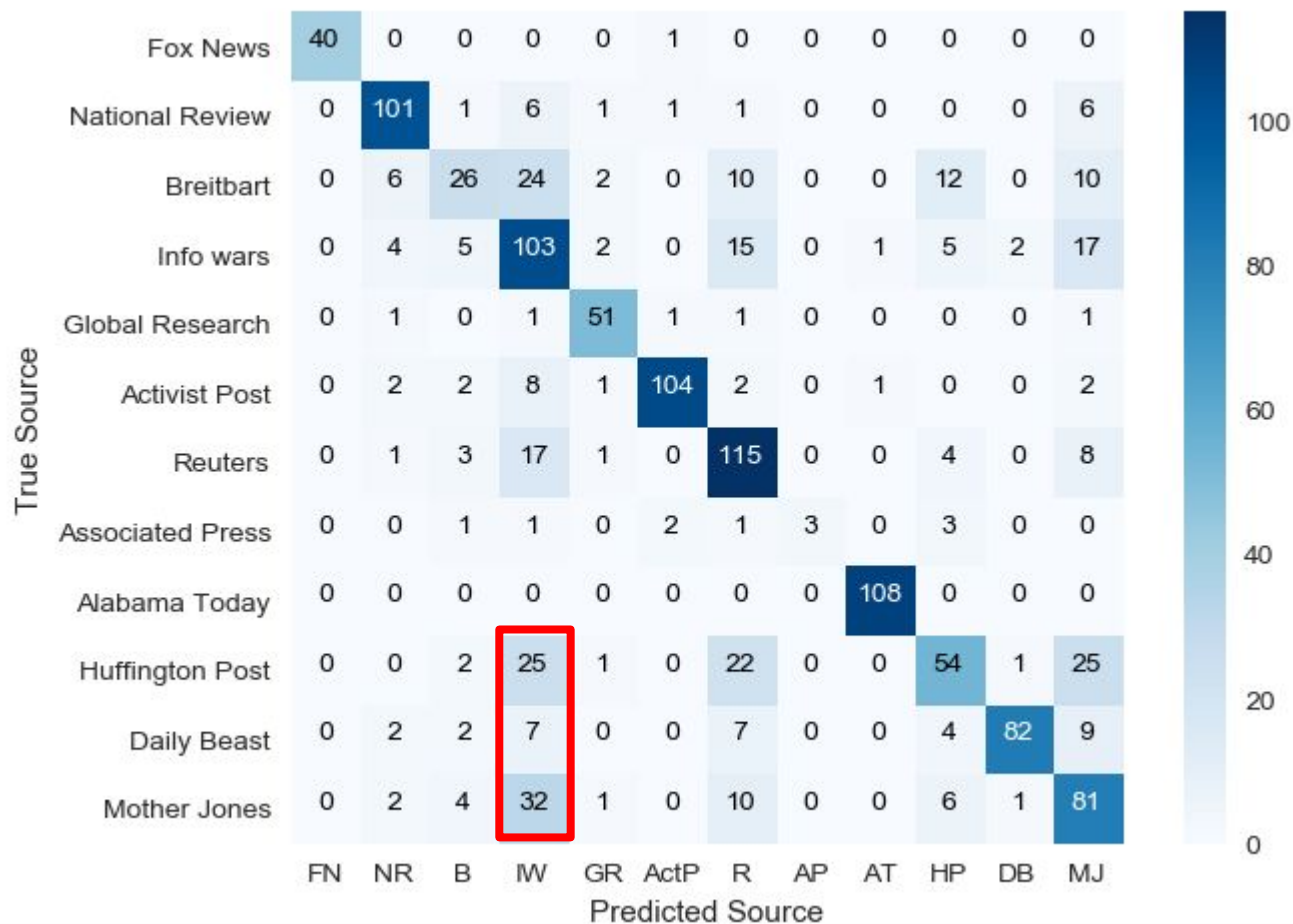
Random Forest

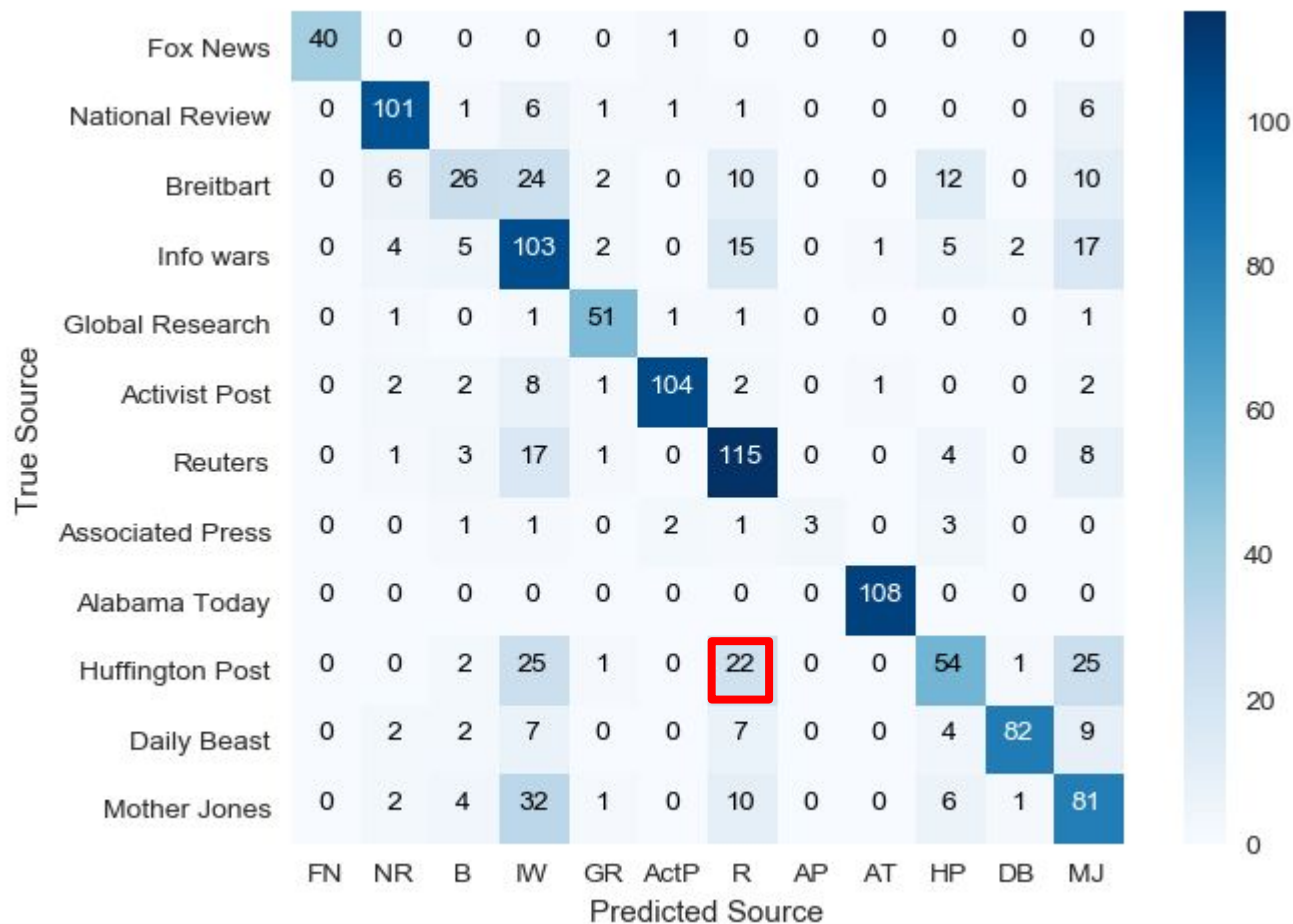


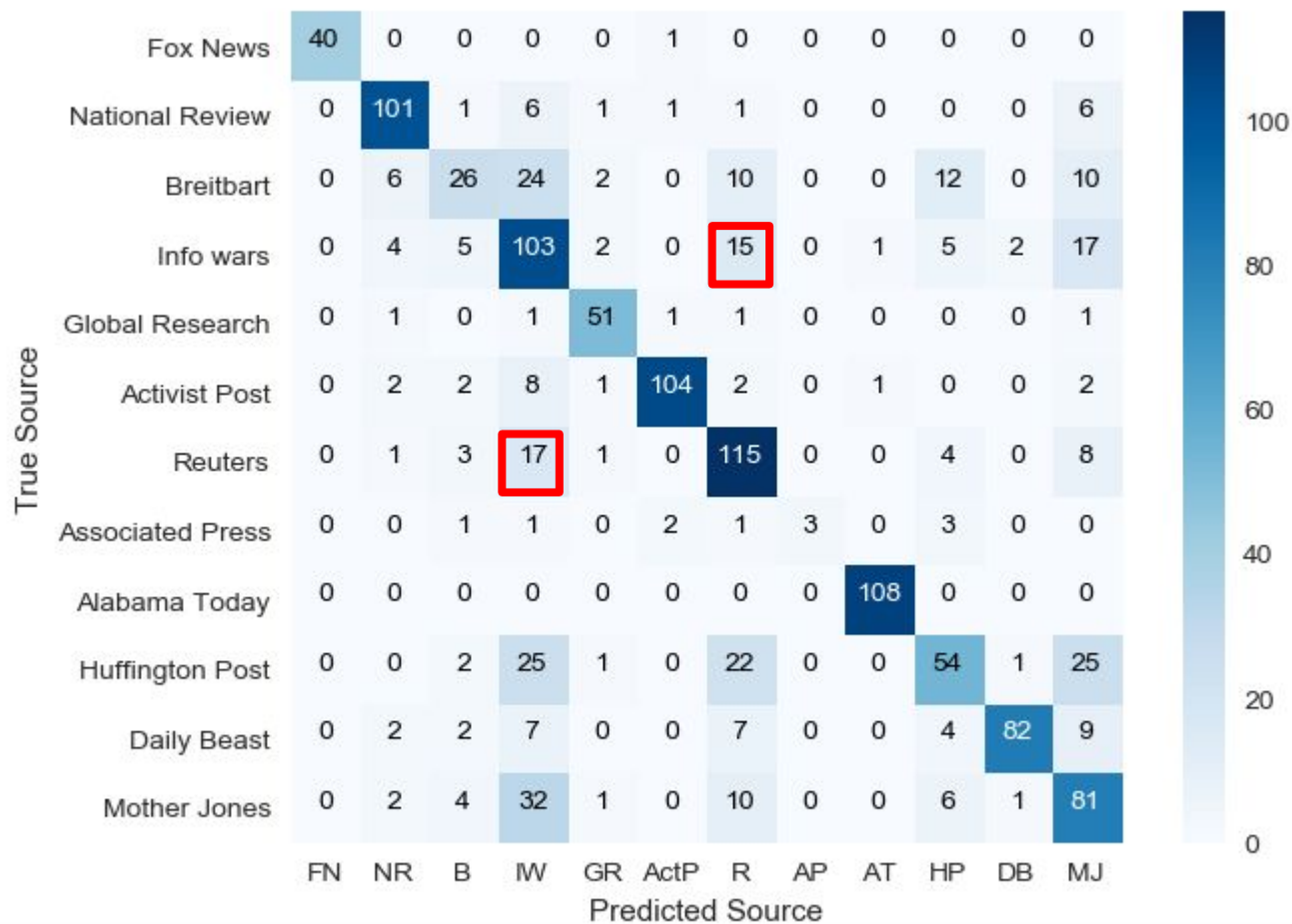














Applications

- Pipeline to scrape several sources at once.
- Automatically differentiate writing styles.



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