

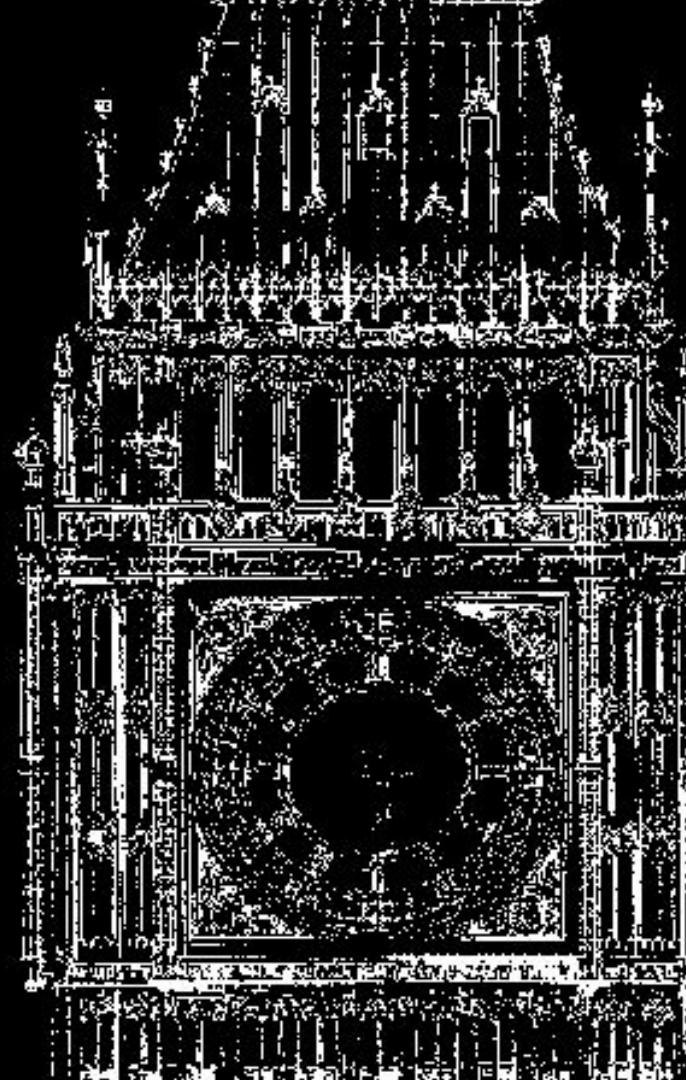


ParlaCLARIN Workshop: Creating and Using Parliamentary Corpora

Miyazaki, 7 May 2018

A Sentiment-labelled Corpus of Hansard Parliamentary Debate Speeches

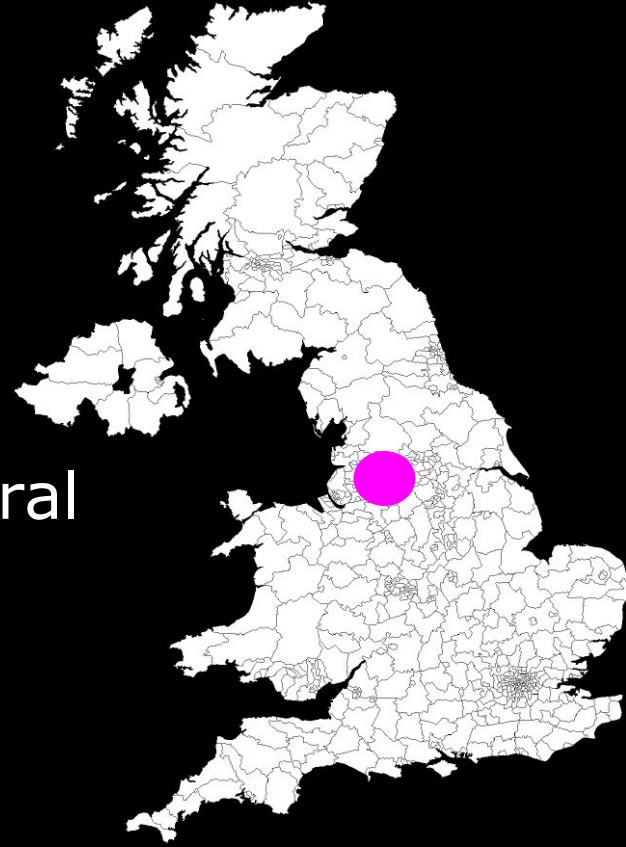
Gavin Abercrombie
& Riza Batista-Navarro





Lucy Powell

MP for Manchester Central





Lucy Powell - Contributions



Lucy Powell

Labour (Co-op)

Commons, Manchester Central (2012 - present)



Lucy Powell - Contributions



Lucy Powell

Labour (Co-op)

Commons, Manchester Central (2012 - present)

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Lucy Powell

MP, Manchester Central

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Overview Voting Record Recent Votes

Social Issues

Foreign Policy and Defence

Welfare and Benefits

How Lucy Powell voted on Social Issues

Almost always voted for equal pay rights



Lucy Powell - Contributions




Lucy Powell

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Lucy Powell

MP, Manchester Central

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Overview
Voting Record
Recent Votes

- Social Issues
- Foreign Policy and Defence
- Welfare and Pensions

How Lucy Powell voted on Social Issues

Almost always voted for equal pay rights

Voting Record — Lucy Powell MP, Manchester Central (25165)

Lucy Powell is currently Member, Education Committee

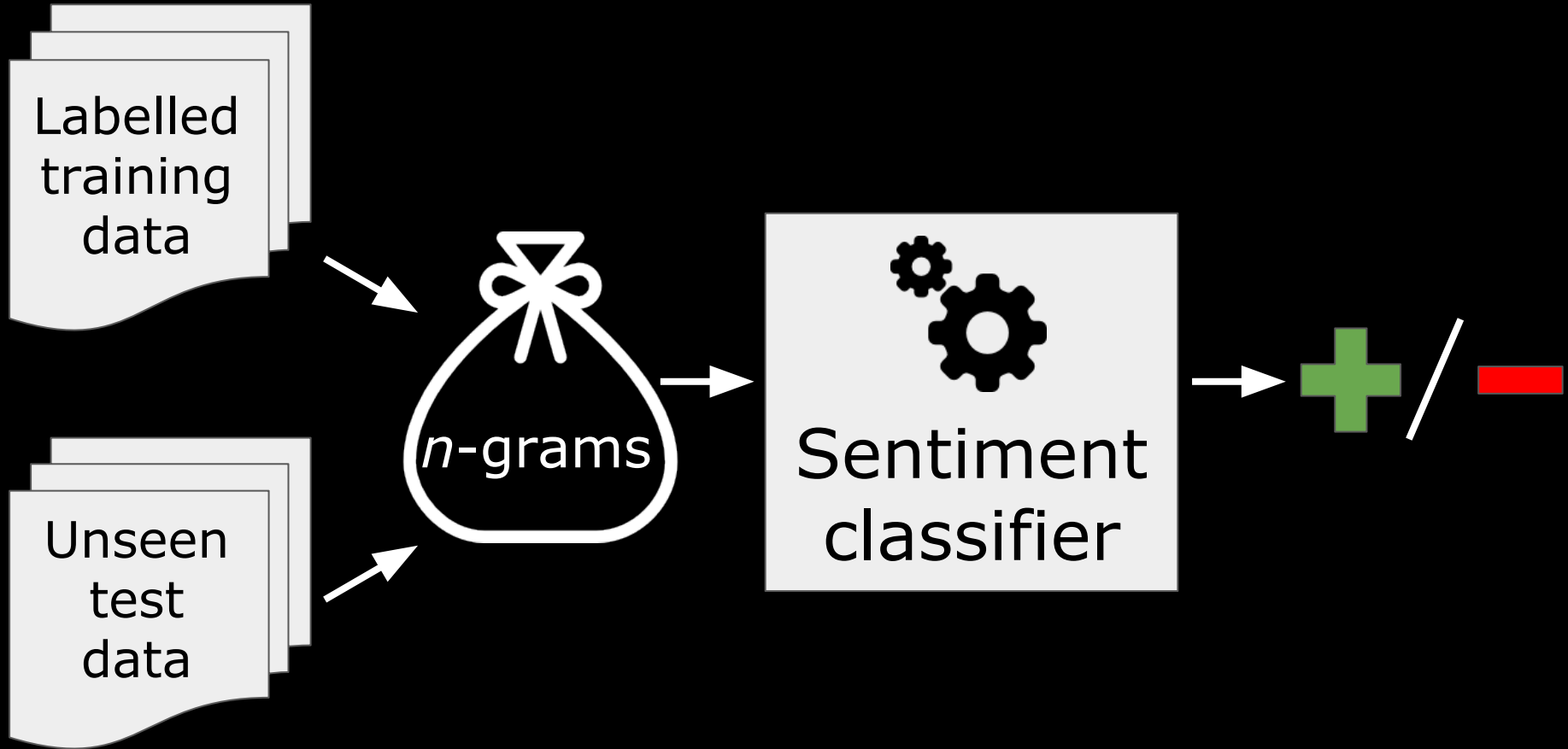
Note: our records only go back to 1997 for the Commons and 2001 for the Lords ([more details](#)).

From	To	Party	Rebellions (explain...)	Attendance (explain...)	Teller
9 Jun 2017	still in office	Lab	0 votes out of 103, 0.0%	103 votes out of 135, 76.3%	0 times
8 May 2015	3 May 2017	Lab	2 votes out of 293, 0.7%	293 votes out of 467, 62.7%	0 times
16 Nov 2012	30 Mar 2015	Lab	0 votes out of 314, 0.0%	314 votes out of 593, 53.0%	0 times

External Links

- See **Lucy Powell's** Parliamentary speeches at: TheyWorkForYou.com

Sentiment analysis with supervised classification



Motion: "I beg to move that this House..."

Speaker 1: "I agree with the motion ..."

Speaker 2: "I disagree with the motion ..."

...

Speaker n : "(an opinion about the motion)"

Division: 'Aye' or 'No'



Motion: "I beg to move that this House..."

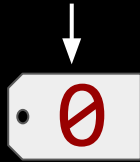
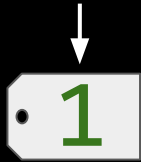
Speaker 1: "I agree with the motion ..."

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Speaker n : "(an opinion about the motion)"

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That this House approves the draft Agreement (Cm 9332), between the Secretary of State for Culture, Media and Sport and the British Broadcasting Corporation, which was laid before this House on 15 September 2016.

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I am pleased that the new royal charter has been taken seriously and dealt with positively by the Government.

Under the draft agreement, I see a BBC that suits the modern broadcasting and digital environment that we know today.

I am therefore pleased to support the motion and agreement, which will guarantee the BBC's important place in our society for many years to come.

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Many of us in this House think that the idea of forcing the BBC to pay for free television licences is a complete disgrace.

Does the Secretary of State understand the concern felt among those at BBC Alba that the framework agreement is not to their advantage?

Does the hon. Gentleman not find it bizarre that, because of the inexperience of the appointee, the BBC has had to create another post, at a time when it says it has no money?

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I think that this is a very good move. I hope that the Government will implement the formula sooner rather than later to give all our children a fighting fair chance.

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My hon. Friend is talking about the broken pledge on funding for schools. Is she aware that 74 out of 77 schools face real-term cuts by 2019?

The motion before the House makes it clear that our schools are facing a cocktail of cuts that will see 98% of schools lose out.

In my constituency, funding per pupil is being reduced further. Why is David Cameron's promise being broken?

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Positive motions



Positive
speeches:
{
"pleased",
"support",
"positive",
...}

Negative
speeches:
{
"concern",
"bizarre",
"disgrace",
...}

Negative motions



Positive
speeches:
{
"broken",
"cuts",
"reduced",
...}

Negative
speeches:
{
"support",
"grateful",
"right",
...}

HanDeSeT corpus

**Hansard Debates
with Sentiment Tags**



Inter-annotator agreement

Cohen's k

	Motion	Speech
Round 1	0.56	0.57
Round 2	0.91	0.85

Debate = {Motion, Speech}

Speech = {Utt. 1, Utt. 2, Utt.3, Utt.4, Utt.5}

Debate = {Motion, Speech}

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Debate = {Motion, Speech}

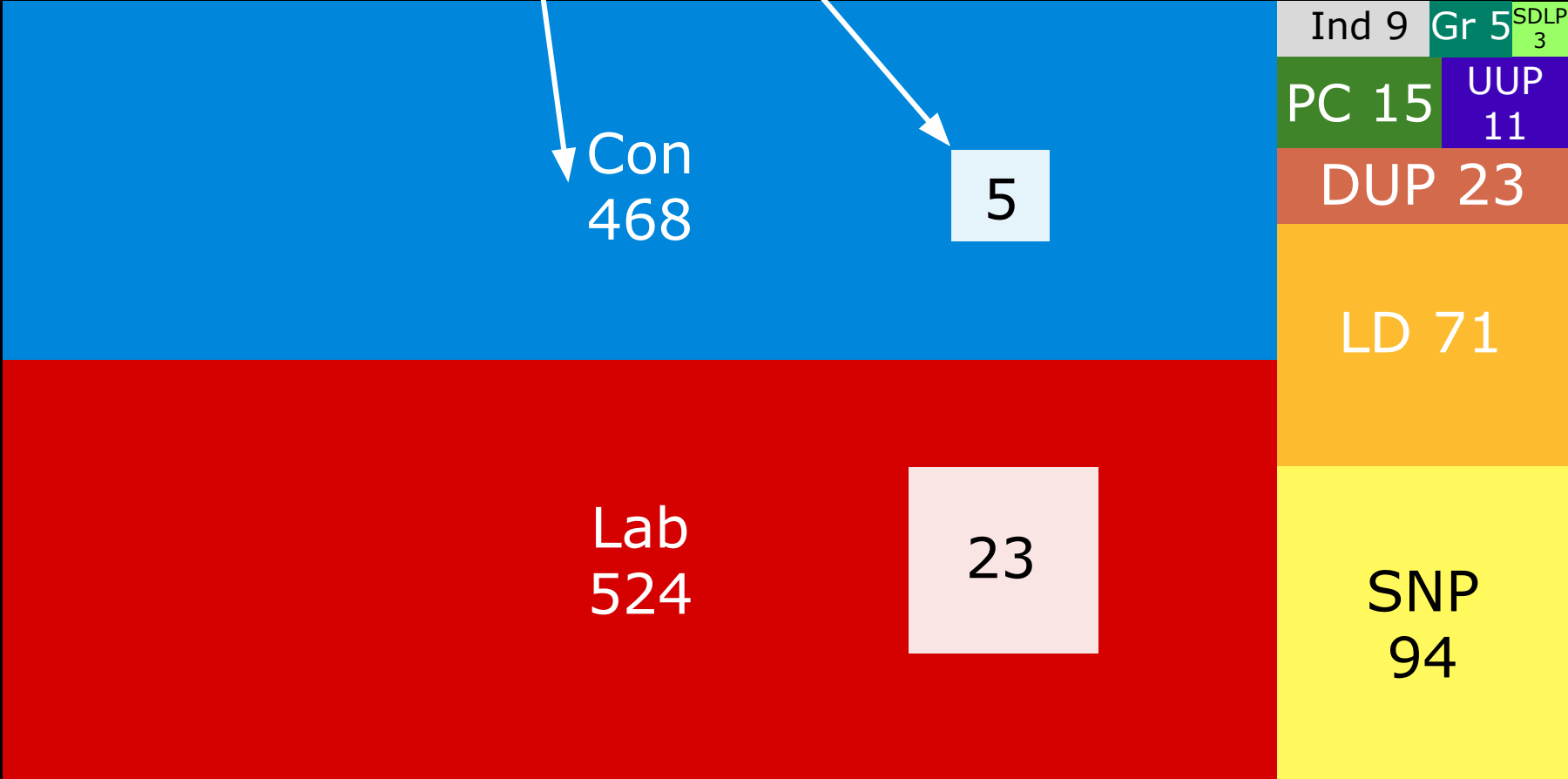
Speech = {Utt. 1, Utt. 2, Utt.3, Utt.4, Utt.5}



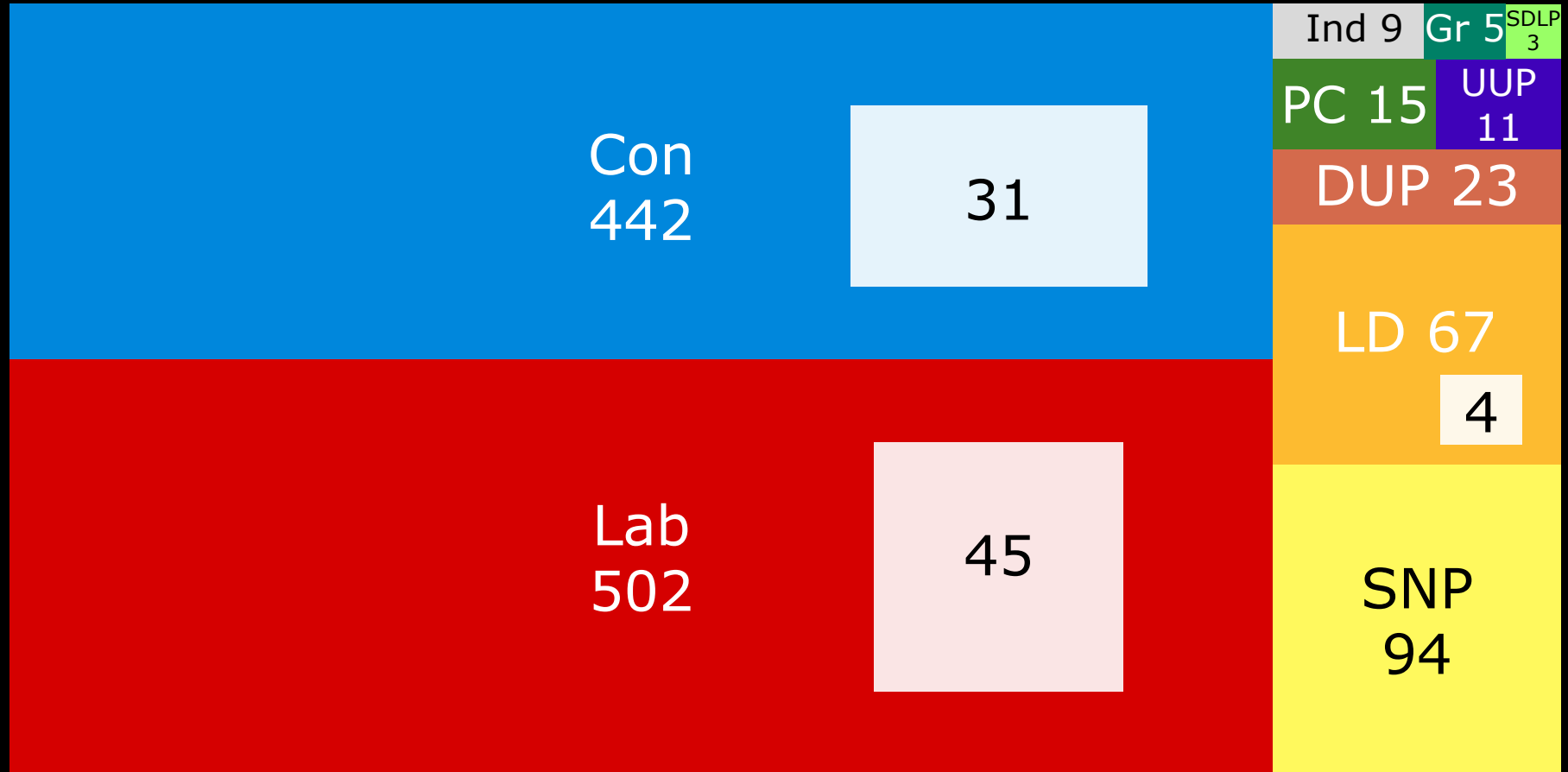
Speeches by party



Vote labels by party – ‘loyal’ and ‘rebel’ votes



Manual labels by party – 'loyal' and 'rebel' speeches



Label disagreement

“Many enterprises now find themselves disadvantaged.
That needs to be addressed by the Government.”

Vote label: • 0, manual label: • 1

Label disagreement

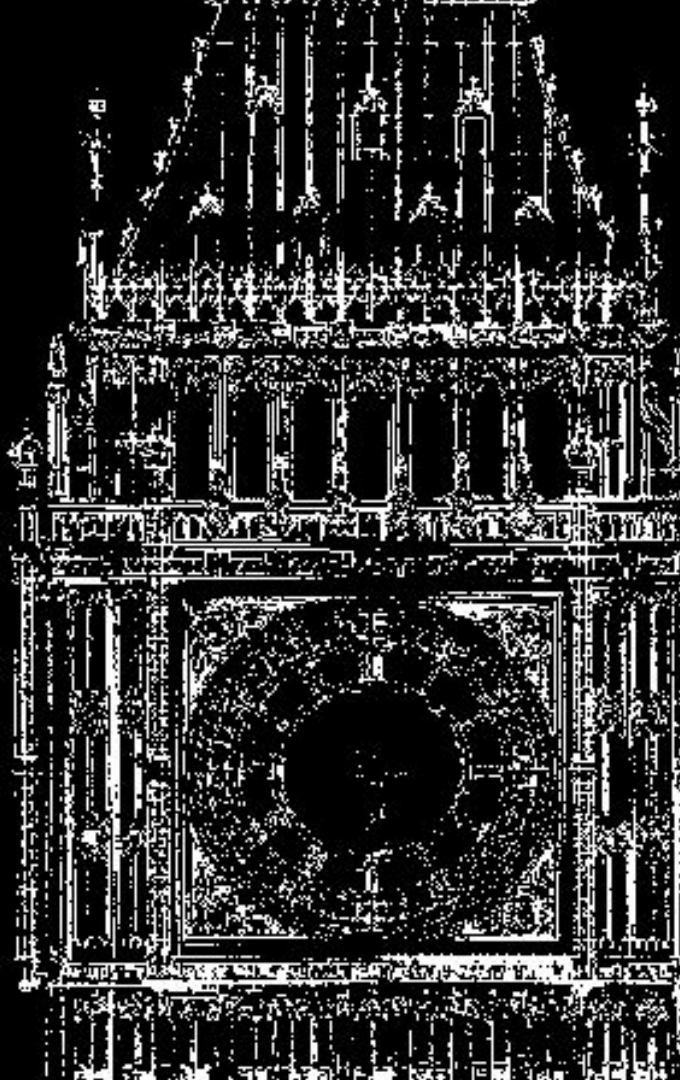
"I am therefore pleased to support the motion."

Vote label: • 0, manual label: • 1

HanDeSeT corpus

Hansard Debates
with **Sentiment Tags**

mendeley.com/datasets



'Aye' or 'No'?

Speech-level Sentiment Analysis of Hansard UK Parliamentary Debate Transcripts

Session: P57 - Opinion Mining /
Sentiment Analysis (3)

LREC Friday 11th May 11.45

gavin.abercrombie@postgrad.manchester.ac.uk



@gavin_does_nlp

