

# Textual Contexts for “Democracy”: Using Topic- and Word-Models for Exploring Swedish Government Official Reports

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## Abstract

We here demonstrate how two types of NLP models – a topic model and a word2vec model – can be combined for exploring the content of a collection of Swedish Government Reports. We investigate if there are topics that frequently occur in paragraphs mentioning the word “democracy”. Using the word2vec model, 530 clusters of semantically similar words were created, which were then applied in the pre-processing step when creating a topic model. This model detected 15 reoccurring topics among the paragraphs containing “democracy”. Among these topics, 13 had closely associated paragraphs with a coherent content relating to some aspect of democracy.

## 1 Introduction and background

Methods developed within NLP have been useful additions to the computational social science and humanities toolbox. The classic NLP method of topic modelling is, for instance, widely used (Boyd-Graber et al., 2017). Examples of text genres analysed with topic modelling include news paper text (Blei, 2012), folk legends (Karsdorp and den Bosch, 2013), micro blogs (Surian et al., 2016), student essays (Ferrara et al., 2017) and open-ended survey questions (Baumer et al., 2017).

Topic models are used for discovering reoccurring topics in a collection of documents. The models are based on the co-occurrence of words. That is, words that frequently occur together indicate a recurring topic. Each topic detected is typically represented by (i) a ranked list of the words that have created the topic by frequently co-occurring, and (ii) a ranked list of the documents that are most typical for the topic, i.e., the documents in which the words frequently co-occur.

Since topic models are built on modelling the co-occurrence of words in the same texts, they model the syntagmatic relations between words. There

are also NLP methods for building models based on paradigmatic relations of words. That is, models that can detect to what extent words typically occur in similar contexts, e.g., to what extent they are synonyms/near synonyms (Sahlgren, 2006). Although these models have existed for quite some time, interest has exploded in recent years with the re-emergence of neural networks as a popular method for machine learning (Vasilev et al., 2019). Also for these methods, there are many different types of use cases within social science and the humanities (Dahlberg et al., 2017; Loon et al., 2020).

We will here demonstrate how these two types of models can be applied to a text collection consisting of Swedish Government Official Reports, and how the output of the models can be combined for finding reoccurring content in the text collection. The aim for the demonstration task will be to investigate if there are topics which frequently occur in texts that mention the word “democracy”.

## 2 The Topics2Themes tool

Despite the shown usefulness of NLP models, previous research has also demonstrated the importance of performing a manual analysis of their output (Grimmer and Stewart, 2013; Baumer et al., 2017). For instance, to read topic-typical documents extracted by a topic modelling tool, in order to avoid misinterpreting the words representing the topics (Baumer et al., 2017; Lee et al., 2017). We, therefore, here use a tool for topic modelling, Topics2Themes (Skeppstedt et al., 2018), which has a graphical user interface meant to encourage the user to read and further analyse the documents extracted by the topic modelling algorithm.

This tool has previously been applied to other types of text collections (Skeppstedt et al., 2020a,b, 2021). Information from paradigmatic models has also been incorporated previously, in the form of

word2vec models pre-trained on large corpora other than the text collection analysed. We here (i) apply the tool to the text genre of political texts, and (ii) use a word2vec model that has been trained on – and thereby is more specific to – the text type that is to be explored with topic modelling.

### 3 Swedish Government Official Reports

Committees or special investigators are often appointed by the Swedish Government to investigate a particular issue before a legislative proposal is presented. The results are compiled in reports, which are published in the official report series “the Swedish Government Official Reports” (or “Statens offentliga utredningar”, SOU, in Swedish).<sup>1</sup>

The report series is made available as PDF documents and automatically extracted HTML pages at the open data site of the Swedish Parliament.<sup>2</sup> This HTML extraction has not preserved the logical structure of the PDF, e.g. headings and regular text are assigned the same HTML tags, and any distinction by font or type-face is encoded explicitly in style attributes which vary across different reports. Reports between the years 1994 – 2020 (3,558 reports) have, however, also recently been made available in a further processed version.<sup>3</sup> This version includes (i) a separation of summaries from the full texts of the reports, (ii) HTML markup that indicates titles, section headings and paragraphs in the body text, and (iii) removal of tables, lists, diagrams and non-Swedish texts. We here used the full texts of the reports from this further processed version, as well as title and heading markup.

### 4 Extracting “democracy” documents

Given the 2021 celebration of 100 years since the first general elections in Sweden, we decided to focus on the word “democracy”, and the contexts in which it appears.

Another decision to make when constructing a topic model is how to define a document. When the collection, e.g., is made up of a compilation of short texts, the decision is easy. In this case, we instead have a collection of very long documents, which need to be split up to make them manageable (for a human as well as for the machine). We therefore decided to define a document as a paragraph.

<sup>1</sup><https://www.riksdagen.se/sv/Dokument-Lagar/>

<sup>2</sup><https://data.riksdagen.se>

<sup>3</sup>At: [github.com/UppsalaNLP/SOU-corpus](https://github.com/UppsalaNLP/SOU-corpus).

In the project: [datalabb.esv.se/esv-datalabb.html](https://datalabb.esv.se/esv-datalabb.html)

Word	Occ.
demokratiska (“democratic”, plur. & det.)	7,601
demokrati (“democracy”)	6,965
demokratin (“the democracy”)	6,222
demokratiskt (“democratic”)	3,970
demokratisk	3,033
(“democratic”, common gender)	
demokratins (“the democracy’s”)	2,613
demokratiutredningen	511
(“the democracy-inquiry”)	
demokrativillkor	449
(“democracy-conditioned subsidies”)	
demokratiutredningens	396
(“the democracy-inquiry’s”)	
demokrativillkoret	318
(“the democracy-conditioned subsidies”)	

Table 1: Number of occurrences for the most common types containing the string *demokrati* (“democracy”)

Following these two decisions, the collection to analyse with topic modelling was constructed as follows: We extracted all paragraphs containing the string *demokrati* (“democracy”). The string was allowed to occur as a sub-string of a word, which led to morphological derivations (e.g., democratic), as well as compound words (e.g., the democracy-inquiry) being captured. A total of 1,174 types were detected (top 10 are shown in Table 1). A manual inspection of the types showed occurrences of (different forms) of five political party names among the types detected, e.g., Social Democratic. Paragraphs containing the string *demokrati*, solely as a part of a party name were therefore excluded from the documents extracted. This resulted in a collection containing 25,988 documents (after making sure there were no exact duplicates), extracted from a total number of 2,965,751 paragraphs.

### 5 The word2vec model

Standard topic modelling does not take the meaning of the words into account. That is, the algorithm is agnostic to the semantic similarity of word-pairs such as “organisation”/ “organisations”, and “states”/“countries”. The semantic similarity of the first word-pair can be detected by, e.g., stemming, but for the second pair, there are no morphology-based solutions. Topics2Themes therefore provides a functionality for clustering the words occurring in the texts into groups of semantically close words. These words are then treated as a single

concept by the tool, e.g., the combined concept “states/countries” is created. The clustering algorithm used is called DBSCAN (Ester et al., 1996). As input to the clustering algorithm, the tool needs to be provided with a suitable word2vec (Mikolov et al., 2013) model. That is, the clustering uses the semantic vector that represents each word included in the model. Since, e.g., “states” and “countries” are semantically close, they are likely to also have word2vec-vectors that are close to each other in vector space, and thereby be clustered together in the same concept cluster.

We have previously used pre-trained word2vec models. Here, we instead created a model specific to our collection, by training a word2vec model on the text type that is to be explored with topic modelling. We used the gensim library (Řehůřek and Sojka, 2010), and trained the model on 30% (48,313,487 tokens) of the report collection. We included tokens occurring at least 20 times, and used CBOW with a window size of three.

## 6 Applying the topic modelling tool and improving its configuration

The Topics2Themes tool was thereafter applied to the “democracy” paragraphs, using the newly created word2vec model for concept clustering.

Despite already having removed exact duplicates, the automatic duplicate detection of Topics2Themes detected 4,841 paragraphs with at least a 15-token overlap with another paragraph. These duplicates were removed, as duplicate content otherwise is interpreted as reoccurring topics.

We configured the Topics2Themes tool to use the topic modelling algorithm non-negative matrix factorization (Lee and Seung, 2001), and to extract 20 topics. However, we also configured the tool to automatically re-run the algorithm 100 times and only retain stably occurring topics. (Due to the algorithm’s non-determinism, slightly different results are typically obtained each time it is run.)

Topics2Themes provides functionality for allowing the user to iteratively improve its output, both for improving the core topic modelling functionality and how the word2vec model is integrated. We therefore ran the algorithm 47 times (the first 13 times with another, pre-trained word2vec model), each time adding improvements to the model.

A basic configuration parameter is the maximum euclidean distance for two word2vec vectors to be allowed to be positioned in the same cluster.

With a large distance, semantically distant words will be clustered together, whereas a small distance will lead to fewer relevant clusters being created. By manually inspecting the clusters created for different distances, we settled for a distance of 0.62.

Another important configuration improvement consists of adding additional content to four different lists. These lists contain the following (i) stop words (i.e., uninteresting words that are not to be included in the content sent to the topic modelling algorithm, e.g., “therefore”, “mainly”), (ii) words to exclude from the automatic clustering since they are assigned to clusters to which they do not belong, e.g., clusters of antonyms and of semantically close words that might nevertheless be relevant to separate (e.g., party, place and person names), (iii) manually constructed clusters, i.e. groups of words that should be treated as the same concept but were not captured by the clustering (e.g. “the parliament”/ “the parliament’s”), and (iv) a list of multi-word expressions that should be treated as one word by the algorithm (e.g. “political party”).

For stop words, we extended the Swedish stop word list provided by NLTK (Bird, 2002) and a list from a previous Topics2Themes study (Skeppstedt et al., 2020b). By withholding the stop words from the algorithm, it is possible to prevent the creation of uninteresting topics based on these words. For instance, that two documents both contain the word “mainly” is a bad indicator of these two documents discussing the same topic. The clustering facilitates the stop word list expansion. That is, since uninteresting words are often clustered together, the entire cluster can be added as stop words.

In addition to removing stop words, we also removed low-frequency words/clusters, i.e., only the 5,000 most common words/clusters were retained.

## 7 Final configuration and topics detected

The final configuration resulted in 15 stable topics being detected by the topic modelling algorithm. For this configuration, there were 436 words in the list of words not to cluster, 73 manually constructed clusters, 20 multi-word expressions, and we had added 892 new words to the stop word list. A total of 530 word clusters were automatically detected by the word2vec-vector clustering.

We employed the graphical user interface of Topics2Themes for exploring the output produced by the topic modelling algorithm (Figure 1). The Topics-panel (in the center) contains one element

- 1: Democracy in municipalities and regions, e.g. its vitality, level of autonomy and responsibilities:** municipality\*, region council\*, regions/responsible authority/regional councils/County Administrative Board, councils, regions, assignments, cooperation, consultation, tasks, municipal law, possibility\*, activities\*, municipal autonomy/the municipal autonomy
- 2: Internal school democracy for pupils, the school's commission to teach democracy:** pupil\*, school\*, teacher\*/teachers\*, common values/values, education/teaching, influence, school, commission, knowledge, schools\*, grade/primary school/gymnasium, Agency for Education, children\*, curriculum\*
- 3: Democracy-conditioned subsidies for organisations (many from SOU 2019:35):** organisation\*, conditions\*, grants\*/the support, activities\*, support, civil, authority\*, requirements\*, ideas, Agency for Youth and Civil Society, fulfils, authority, submitted
- 4: A non-coherent topic:** projects, perspectives, education\*, universities, power
- 5: Political parties and their relations to voters and members (Many from SOU 2016:5):** party\*, voters/voters, members, internal, representative, candidates, elections, party members, shows/showed, election, role, the voters'
- 6: EU and democracy, e.g. how EU-democracy works, and its challenges:** EC/EU, European\*, national, level\*, membership\*, the Union/the community, Sweden, Swedish, member states\*, Sweden's, countries\*/states\*, the deficit, the cooperation, the parliaments, power
- 7: Challenges, opportunities and interactions of local and regional democracy:** local\*/regional\*, level\*, national\*, anchoring, county, strengthen\*/improve, experimentation, work, development, development, local autonomy/municipal autonomy, responsibility
- 8: The importance of a broad political participation:** political\*, politics\*, participation, the system, institutions\*, system, engagement, representative, elections, equality, economic, power, forms, decision-making, social
- 9: Young people's political and societal participation and influence:** young people\*, children\*, influence, commitment, participation, children and young people/children and adolescents, youth councils, to influence, engage, adults, increase, knowledge
- 10: About basic human and democratic rights:** rights, fundamental, human rights\*, limitation\*/restriction\*, law/ordinance rules\*/provisions\*, the Instrument of Government, protection, universal, common values/values, the right, society\*, respect, requirements\*, principles\*
- 11: Democracy in municipalities e.g. how to strengthen it:** municipal\*, elected\*, activity\*, the audit, municipal autonomy, way of functioning, commission, strengthen\*/improve, cooperation
- 12: Gender equality:** women\*, men\*, gender equality, gender\*, violence, power, organisation, equal, female\*, women's movement, gender equality policy
- 13: Decision making in democracies and democratic organisations:** decision\*, take\*, council, decision, opportunity\*, influence, the board's/the council's, order, requirements\*, majority, responsibility, views, legitimacy/credibility, level\*, consultation
- 14: A wide topic, with texts containing mentions of "the Government". Some more specific texts about the relation between the Government and public authorities:** the Government\*, authority\*, administration, state, the administration, commission, administrative policy, public, transparency, activities\*, growth, the authority's/the agency's\*/ the County Administrative Board, involvement, state administration, the work
- 15: The state of democracy in different countries, e.g. election participation (Many from SOU 2007:84):** United States/China/Japan/Norway/Poles/India/Ireland/Canada/Hungary/Belgium/Denmark/Finland/Italy/Spain/Portugal/Romania/Czech Republic/Germany/Bulgaria/France/Slovakia/Slovenia/South Africa/Austria/Australian/the Netherlands/Great Britain, countries\*/states\*, Sweden, Estonia/Lithuania/Latvia, Russia, European\*, elections, country, election participation, Iraq/Syria/Egypt, Lebanon/Somalia/Turkey/Jordan/Indonesia, Eastern European, Switzerland

Table 2: The 15 topics detected and their most closely associated words and concept clusters (translated into English). Concept clusters are indicated by "/" separating the words in the cluster. That the cluster contains different morphological versions of a word is indicated by a "\*" following the shortest version.

for each one of the topics detected. To the left, the words/concept clusters associated with the topics detected are shown. Correspondingly, to the right, the documents (i.e., paragraphs in this case) associated with the topics are shown. It is possible to re-sort the texts according to their associated texts and words. The words associated with the topics are also highlighted in the texts. To further support the reading, each paragraph has labels that show (i) the title of the report in which it appears, and (ii) the nearest heading under which it appears.

We read a few of the most closely associated paragraphs (about five) for each one of the 15 topics detected, and added a description of the topic in its text area in the Topics panel. For the paragraphs associated with Topic 4, we were not able to find any common subject. For topic 14, the main connection between its associated paragraphs was that “the Government” was mentioned. However, for the other 13 topics, the associated texts all deal with some aspect of a common topic related to democracy. The topic descriptions and their most closely associated words can be found in Table 2

A potential effect of splitting up reports into paragraphs, and treating them as independent documents, is that the topics detected might correspond to the original reports. That was the case for topics 3, 5 and 15. For these topics, the algorithm had (more or less) detected what corresponded to the content of the reports “Democracy-conditioned subsidies for civil society organisations”, “Let more people shape the future!” and “The importance of a high voter turnout”, respectively. To avoid this, all paragraphs from the same source report could have been concatenated into one document. However, treating the paragraphs as independent documents also has potential advantages, e.g. making it easier to detect subtopics within a report.

## 8 Concluding words

It would have been a time-consuming task to manually search for reoccurring topics among the 25,988 paragraphs containing the word “democracy”. With the Topics2Themes tool, in contrast, it was possible to very quickly gain an overview of reoccurring content. Additional relevant reoccurring topics might be found by analysing all paragraphs, as the tool is not likely to detect everything relevant to a human. However, in the absence of unlimited resources for manual text analysis, NLP models can be the next best option. For this particular col-

lection – for which summaries and descriptive section headings are provided – there might be other means for gaining a quick overview of the collection. However, in cases where no such meta data exists, automatic models are even more important.

The curated concept clusters based on word2vectors and the extensive stop word lists used here are by no means mandatory additions to the classic out-of-the box topic model. The classic topic model will still be able to produce topics based on the content of the texts. However, by providing the model with this additional data, it is possible for the user to transfer a part of their mental model of what they find relevant or irrelevant. E.g., we decided not to split up the automatically created clusters of foreign countries (see topic 15), as we were only interested in the concept “foreign country”, and not *which* foreign country. In contrast, we decided to split up an automatically created cluster of political party names into individual concepts. Given another mental model of relevant/irrelevant, the opposite decision could have been made.

The full potential of Topics2Themes is not shown here, as the tool is also built to support a more thorough reading of the documents associated with the topics. The user interface provides a fourth panel (not shown in the figure), which makes it possible to manually add themes that the user identifies in the texts (Skeppstedt et al., 2020a, 2021). A possible continuation of the work described here would thus be to use this functionality to perform a manual search for fine-grained reoccurring themes in the documents closely associated with the topics. Another possible continuation would be to study the effect on the concept clusters created, when using a word2vec model trained on the entire report collection (instead of on a subset).

The source code for Topics2Themes is freely available<sup>4</sup> for use and expansion, and so are<sup>5</sup> the word lists, scripts, etc. used here. We hope that the demonstration provided here – of how NLP models can be used for finding reoccurring topics in large document collections – will form an inspiration for future work, e.g., work using Topics2Themes.

## Acknowledgments

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<sup>4</sup>[github.com/mariask2/topics2themes](https://github.com/mariask2/topics2themes)

<sup>5</sup>[github.com/mariask2/democracy-100-years](https://github.com/mariask2/democracy-100-years)

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## **A Supplemental Material**

Figure 1 shows the graphical user interface of the Topics2Themes tool after 15 topics have been automatically detected, and thereafter provided with a manually authored description.

**Topics**

- Democracy in municipalities and regions, e.g. its vitality, level of autonomy and responsibilities.
- Internal school democracy for pupils, the school's assignment to teach democracy.
- Democracy-conditioned subsidies for organisations (many from SOU 2019:35).
- A non-coherent topic.
- Political parties and their relations to voters and members (Many from SOU 2016:5).
- EU and democracy, e.g. how EU-democracy works, and its challenges.
- Challenges, opportunities and interactions of local and regional democracy.
- The importance of a broad political participation.
- Young people's political and societal participation and influence.**
- About basic human and democratic rights.
- Democracy in municipalities e.g. how to strengthen it.
- Gender equality.
- Decision making in democracies and democratic organisations.
- A wide topic, with texts containing mentions of "the Government". Some more specific texts about the election participation (Many from SOU 2007:84).
- The state of democracy in different countries, e.g. election participation (Many from SOU 2007:84).

**Terms**

ungdomar / unga / ungas / ungdomars / ungdomarna / ungdomarnas  
 barn / barnens / barnens / barns  
 inflyande  
 engagemang  
 delaktighet  
 barn och unga / barn och\_ungdomar  
 ungdomsråd  
 påverka  
 engagera  
 vuxna  
 öka  
 kunskaper  
 politisk / politiskt / politiska  
 kommun / kommunen / kommuner / kommunerna  
 lokal / regional / lokala / regionala  
 politiska partier / politiska partierna / parti / partier / partierna / partiernas / partiet / partiers  
 kommunal / kommunala  
 eg / eu  
 regeringen / regeringens  
 beslut / besluten  
 australien / belgien / bulgarien / danmark / finland / frankrike / indien / irland / italien / japan / kanada / kina / nederländerna / norge / polen / portugugal / rumänien / slovakien / slovenien / spanien / storbritannien / sydafrika / tjekken / tyskland / unger / usa / österrike  
 elev / elever / elevens / elevernas / elevers / eleven / eleverna  
 organisation / organisationen / organisationer / organisationens  
 kvinnor / kvinnorna / kvinnornas / kvinnors  
 skolan / skolans  
 länder / länderna / medlemsländer / medlemsstater / stater  
 villkor / villkoret  
 verksamhet / verksamheten  
 fätra / fätrar / fätrats / fätrats / fätrade  
 bidrag / statsbidrag / bidraget / stödet  
 män / männen / människans / mäns

**Texts**

**d**

pdf: De **ungas** syn på ungdomsråden skiljer sig inte nämnvärt från tjänstemännens. En majoritet av de **ungas** uppger att syftet är att ge **unga** möjligheter att **påverka** samt att få ett ungdomsperspektiv på den förda politiken. De betonar också rådets funktion som en skola i - DEMOKRATI - och som informationskanaler mellan politiker och **unga**. Flera **unga** framförde även att inflyandeforumen kan stimulera **engagemang** hos **unga** som inte är föreningsaktiva.

**f**

**SOU: Låt fler forma framtiden! Underrubrik: 14.7.2 Forum för ungas inflyande**

pdf: I den allmänna diskussionen om varför **unga** människor trots politiskt intresse och **engagemang** i så stor utsträckning undviker partipolitik, stöter man på en rad olika förslag till förklaringar. [...] **unga** identifierar sig inte med de politiska partierna av i dag de **unga** är vana vid snabba beslutsvägar, vilket lätt krockar med ett mer trögriktigt - DEMOKRATI - skt system de **ungas** lärorliga verklighet. I och **unga** människors ökade internationella erfarenheter de politiska partierna hittar inte språk och former för att nå de **unga** eftersom partierna saknar en tydlig vision och refererar för mycket tillbaka i tiden. [...] Dialog saknas **ungdomar** tycker att partipolitik är tråkigt, inte heller tror de sig kunna **påverka** den om de blev aktiva **ungdomar** av i dag är bordskända och har inte fått kämpa för sina välståndstillägga rättigheter. [...]

**f**

**SOU: Det unga medborgarskapet Underrubrik: Ett kulturanalytiskt utkast till några möjliga varför; b**

pdf: Enligt de undersökningar som **Ungdomarnas - DEMOKRATI -** kommission låt genomföra anser 97 procent av Sveriges **unga** samhället över två tredjedelar anser att det är mycket eller ganska viktigt att **unga** människor deltar i och påverkar debatten och planeringen i representanter i de valda politiska församlingarna; 86 procent tycker att det är mycket eller ganska viktigt att de som representerar dem i riksdagen och kommunfullmäktige är **unga**.

**f**

**SOU: 11 Barn och ungdomar Underrubrik: 11.2.2 Ungdomarnas demokratikommission**

pdf: Vår översyn visar att inflyandeforumen ofta har en vidare roll i den lokala - DEMOKRATI - n än att ge **unga** ett starkt **inflyande** i den politiska beslutsprocessen. I vår intervjustudie berättade de **unga** att deltagande i inflyandeforum resulterar i en ökad tilltro till den egna förmågan att **påverka**, ett större intresse för politik samt bättre kunskap om den - DEMOKRATI - ska processen. [...] Tjänstemännen som vi har intervjuat menade att forumen har bidragit till att **öka** kunskapen om de **ungas** behov i kommunen respektive landstinget samt att de minskar avståndet mellan de **unga** och de förtroendevalda och förändrar synen på **unga** i kommunen respektive landstinget.

**f**

**SOU: Låt fler forma framtiden! Underrubrik: 14.7.3 Bidrar inflyandeforum till att öka ungas inflyande och delaktighet?**

pdf: Enligt de mål för ungdomspolitik som riksdagen har fastställt ska **unga** bl. a. ha makt att forma sina liv och **inflyande** över samhällsutvecklingen. Även om flera kommuner och landsting har etablerat **ungdomsråd** och andra inflyandeforum för **unga** visar vår översyn att dessa inte alltid resulterar i ett ökat **inflyande** **unga**. Vi anser därför att kommuner och landsting måste vidta konkreta åtgärder för att se till att **ungas** perspektiv kommer till uttryck i det politiska beslutsfattandet. De politiska institutionerna måste bli bättre på att fånga upp **ungas engagemang** utanför de traditionella kanalerna. [...]

**f**

**SOU: Låt fler forma framtiden! Underrubrik: 14.8 Överväganden och förslag om ungas inflyande och delaktighet**

pdf: **Ungdomar** har goda **kunskaper** om det - DEMOKRATI - ska systemet och samhällets värdegrund, men det finns brister i tillämpningen av värdegrunden. Ett helhetsbilde, liksom ett kritiskt betraktelsesätt, bedöms vara svagt utvecklade förmågor bland de **unga**. [...] Benägenheten att **engagera** sig för samhällsfrågor är däremot mindre bland **unga** än bland **vuxna**. [...] Det kan dock handla om en missro mot traditionella former av **engagemang**, eftersom många **unga** samtidigt uppger att de är intresserade av utvecklingsfrågor och miljöfrågor.

**f**

**SOU: Att lära för hållbar utveckling Underrubrik: 4 Utbildning för hållbar utveckling i praktiken**

Figure 1: Topics2Themes applied to texts containing the string “demokrati” (“democracy”). The Topics panel (a) shows the 15 topics detected. The topic selected by the user (b) is shown with a blue background, and this topic’s most closely associated words (in the Terms panel, c) and most closely associated texts (in the Texts panel, d) have been positioned as the top-ranked elements in their panels. The Terms panel shows examples of concept clusters, e.g., a large cluster of country names (e). To each text, two labels are attached: The name of the report in which the text appears (f), and the name of the nearest heading under which the text appears (g). There is also a link to the full PDF version of the report in which the text appears (h).