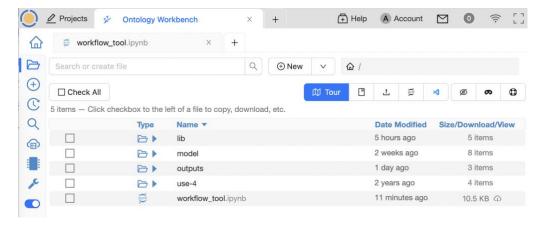
# Ontology Enrichment Methodology<sup>1</sup>

#### Ashley Moran

The Comparative Constitutions Project (CCP) ontology enrichment workflow conveys how we combine automation and human expertise to systematically discover new topics and assess existing topics in the CCP ontology. The methodology documented below conveys how to we implement this workflow, using the ontology enrichment tool to add and revise topics in the CCP ontology.

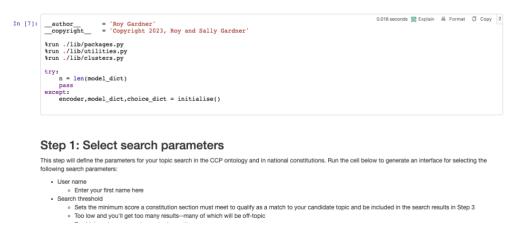
# Login to the Ontology Tool

1. Open CoCalc, sign up for an account, and open the Ontology Workbench project. That should bring you here:



2. In the Name column, click on the "workflow\_tool.ipynb" file. This will open a new page with the title "CCP Ontology Workflow Tool" (shown below). Under the title, you'll see: **text cells**, with nothing to the left of the cell, which are the cells with our notes to walk you through the process of running the cell; **input cells**, with "In []:" to the left of the cell, which are the cells you'll run to produce the desired outputs; and **output cells**, with "Out []:" to the left of the cell, which is where the results of running the input cells will appear. Since this is a collaborative platform, you'll see the results of the last person who used it. So, your initial view may look slightly different from the screenshots below, but the basic structural elements will be the same.

#### **CCP Ontology Workflow Tool**

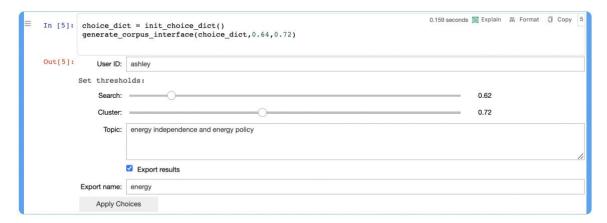


### **Select Your Search Parameters**

3. Scroll to "Step 1: Select search parameters" in the tool for guidance on selecting parameters for the search you're about to do. Then scroll to the next input cell (shown below) and click on it. Click "Run" in the navigation bar.

<sup>&</sup>lt;sup>1</sup> This material is based upon work supported by the National Science Foundation under Grant Number 2315189. Any opinions, findings, and conclusions or recommendations expressed in this material are those of the authors and do not necessarily reflect the views of the National Science Foundation.

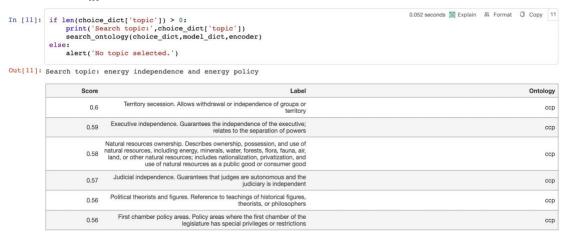
4. That will generate an interface in the output cell that allows you to select your search parameters (shown below). Enter your first name as your user ID, set your search threshold and cluster threshold, enter your candidate topic text in the topic field, and (if you want to export the results in addition to reviewing them in the tool) check the export results box and enter what you want the file name to be for these search results in the export name field. Click "Apply Choices." Note: Do not run this cell after you enter the search parameters, or it will clear your search parameters.



# **Search the CCP Ontology**

5. Scroll to "Step 2: Search the CCP ontology" in the tool for guidance on comparing your candidate topic to current topics in the CCP ontology. Then click on the input cell in that section (shown below). Run the cell.

6. That will generate results in the output cell (shown below). The results show the current CCP topics that are the closest match to your candidate topic text. Typically, good matches are found above 0.65. Use these results to determine (i) if your candidate topic is distinct from current CCP topics or (ii) if revisions are needed to your candidate topic to differentiate it from current CCP topics. If revisions are needed, run your revised candidate topic back through Steps 1-2 of the ontology workflow tool. If no revisions are needed, proceed to Step 3 of the ontology workflow tool.



#### **Search National Constitutions**

7. Scroll to "Step 3: Search national constitutions" in the tool for guidance on the search you're about to do. Then click on the input cell in that section (shown below). Run the cell.

```
In [6]: if len(choice_dict['topic']) > 0:
    print('Search topic:',choice_dict['topic'])
    print('Search threshold:',choice_dict['search_threshold'])
    print('Guster threshold:',choice_dict['cluster_threshold'])
    run_search(choice_dict,choice_dict['cluster_threshold'])
    else:
        alert('No topic selected.')
```

8. A green dot will appear next to the input cell to indicate it is running, and progress notes will appear in the output cell below it (shown below). Don't run anything else while the input cell is running.

```
In [@]:

if len(choice_dict['topic']) > 0:
    print('Search topic:',choice_dict['topic'])
    print('Search threshold:',choice_dict['search_threshold'])
    print('Cluster threshold:',choice_dict['cluster_threshold'])
    run_search(choice_dict,model_dict,encoder)
    else:
        alert('No topic selected.')

Out[9]: Search topic: energy independence and energy policy
        Search threshold: 0.62
        Cluster threshold: 0.72
```

That will generate results in the output cell (shown below). The results show all sections of national constitutions that match your candidate topic at the search threshold you defined. It clusters results by the cluster threshold you defined.



National independence and the unity of the	e state;	Portugal_2005	2795
Respect for sovereignty and national indepen	dence;	Angola_2010	92
National independence, territorial integrity and	d unity;	Angola_2010	2271
k.			
Section	on text	Constitution	Section
Nuclear energy, atmosphere and space	related	Nepal_2016	3736
mineral resources necessary for the generation of nuclear e	energy;	Pakistan_2018	3398
the production of nuclear fuels and the generation and use of nuclear earlier	energy;	Pakistan_2018	3400
Nuclear energy and nuclear installations, inclu	iding—	United_Kingdom_2013	10683
Nuclear energy and nuclear installations, inclu	iding-	United_Kingdom_2013	20062
5			
Section	on text	Constitution	Section
to promote energy conservation and cost-effective use of energy, as well as to develop and support the producti use of alternative energy to enhance sustainable energy se		Thailand_2017	292
The Confederation shall establish principles on the use of local and renewable energy sources and on the econom efficient use of a		Switzerland_2014	708
The Confederation shall legislate on the use of energy by installations, vehicles and appliances. It shall encours development of energy technologies, in particular in the fields of saving energy and the renewable energy sc		Switzerland_2014	710
unclustered			
Section	on text	Constitution	Section
establish and pursue	policy,	Serbia_2006	615
rocks, minerals, fossil fuels and other sources of e	energy;	Kenya_2010	4735
Basic regulation of mining and of	energy.	Spain_2011	1038
The State encourages all acts of protection of the environment, development and use of new energy and recycled of	energy.	Socialist_Republic_of_Vietnam_2013	343
To ensure food and energy sover	reignty.	Ecuador_2021	1975
State Land and state Natural Reso	ources;	South_Sudan_2013	2539
Financial and budgetary p	olicies;	Gabon_2011	564
Policies governing natural reso	ources;	Gabon_2011	565
Taxes on mineral oil, natural gas and minerals for use in generation of nuclear	energy.	Pakistan_2018	3470
Non-conventional energy so	ources.	India_2016	6135
To protect forest reserves and expand the plant coverage, the State encourages the development of local sou energy: solar, wind and		Haiti_2012	1329
Financial indepen	dence;	Guatemala_1993	996
The State submits itself [s'attèlle] to develop its energy potential in view of achieving energy sovereignty, [and] acc energy and to build a dynamic and competitive industrial, mining, oil and a gas sector, oriented to satisfy energy and to build a dynamic and competitive industrial, mining, oil and a gas sector, oriented to satisfy energy and to be a competitive or an energy and the satisfy and the requirements of develop- tion.	ational	Niger_2017	685
The Confederation shall legislate on the transport and the supply of electrical	enerav.	Switzerland 2014	719
The Confederation shall legislate on the transport and the supply of electrical	enerav.	Switzerland 2014	

The candidate topic above—energy independence and energy policy—matched 63 constitution sections, organized in 6 clusters. Matches scoring 0.65 and above are typically fairly good matches.

The search above used a relatively low **search threshold** of 0.62 to produce more matches; this helps ensure the search won't miss relevant matches, but it also increases the number of irrelevant matches. The search used a relatively high **cluster threshold** of 0.72, meaning topics in each cluster are likely to be very closely related; this helps identify groups of constitution sections that are and aren't related to the candidate topic.

In the search above, constitution sections in clusters 1, 2, 4, and 5 relate to energy policy, electricity and gas, nuclear energy, and renewable energy, respectively, and thus align with the candidate topic of *energy independence and energy policy*. Constitution sections in clusters 0 and 3, however, relate to monetary policy and general state independence, and thus are not relevant to the candidate topic. The "unclustered" group above includes constitution sections that are potentially related to the candidate topic but not to other constitution sections; these must be reviewed individually. For example, unclustered segments on fossil fuels and recycled energy are relevant to the candidate topic, but those on financial policies and financial independence are not.

#### **Review Your Results**

- 10. Review your results in "Step 3: Search national constitutions" to assess if any changes are needed to your search parameters to produce an optimal set of matches.
- 11. If a search produces few matches, lower the search threshold in Step 1 (and remember to click "Apply Choices" in Step 1) and re-run Step 3. You should keep lowering it as long as the lowered threshold continues to produce additional good matches and starts to produce incorrect matches. Once lowering the search threshold *only* produces more incorrect matches, that's a sign that the search threshold is low enough.
- 12. If a search produces few *good* matches, try rephrasing or reformulating the candidate topic. This could include: trying broad vs specific search terms, reordering the search terms to put the most important part of the topic first, elaborating the topic with a description, or using existing matches or known constitutional

provisions on this topic to help think through different language that might capture more constitution sections on the topic. Be sure your topic formulation doesn't have extraneous or contradictory text that could throw off your search results. Re-run Steps 1-3 with these new formulations to see which captures the most accurate matches.

- 13. If a search produces good matches *with distinct clusters*, try each cluster topic as a candidate topic. It may be that cluster topics could provide good sub-topics or related topics to capture constitution sections in a more nuanced way. Re-run Steps 1-3 with these cluster topics to see which captures the most accurate matches.
- 14. Where applicable, use the CCP Characteristics of National Constitutions data (aka "CCP data") to check that the results are capturing instances of the topic we *know* are in constitutions (since the CCP data are tagged by humans).

For example, since the new *recall* topic aims to capture "voter recall of elected officials," we can use CCP topics that capture some aspects of voter recall to check that our *recall* topic formulation captures provisions tagged by those existing CCP topics. The existing CCP topic tracking who can propose to dismiss the head of state (*hospdiss*) includes an option for the public to propose to dismiss the head of state (*hospdiss*\_5). This is shown in the CCP codebook as follows:

```
v98. Who can propose a dismissal of the Head of State? (Asked only if HOSDISS is answered 1)

1. Head of Government – [HOSPDISS_1]

2. First (or only) chamber of the Legislature – [HOSPDISS_2]

3. Second Chamber of the Legislature – [HOSPDISS_3]

4. Both Chambers of the Legislature are required – [HOSPDISS_4]

5. Public (e.g., recall) – [HOSPDISS_5]

6. Public Prosecutor – [HOSPDISS_5]

7. Court – [HOSPDISS_7]

8. Constitutional Council or Constitutional Court – [HOSPDISS_8]

9. the Government/Cabinet – [HOSPDISS_9]

90. left explicitly to non-constitutional law – [HOSPDISS_90]

96. other, please specify in the comments section – [HOSPDISS_96]

97. Unable to Determine – [HOSPDISS_97]

98. Not Specified – [HOSPDISS_98]
```

We can then look for *hospdiss\_5* in the CCP data for the most recent year available (2021) to see which countries have such a provision allowing the public to propose to dismiss the head of state. In the CCP data, this is shown as a 1 if the provision is present, and a 0 if not. There are only four countries with a 1 for this variable:

country	year	hospdiss_5
Bolivia	2021	1
Ecuador	2021	1
Liechtensteir	2021	1
Venezuela	2021	1

Then we can check if these provisions in the constitutions of Bolivia, Ecuador, Liechtenstein, and Venezuela came up in the search results produced by the ontology tool. If not, we could lower the search threshold and/or revise the topic formulation used in the ontology tool to try to capture these provisions, perhaps by adding language similar to these constitutional provisions.

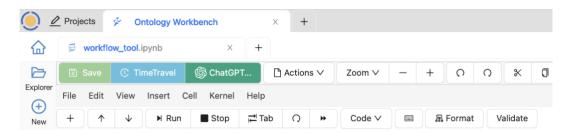
We can then do the same thing for other CCP topics that capture other aspects of voter recall, including hosadiss\_5, hogadiss\_6, hogadiss\_5, cabdiss\_7, rempro\_1, and jrempro\_9.

We don't have CCP topics that are applicable to every proposed new topic. But, for those we do have, we want to be sure we use them to make the new topics as robust and complete as possible.

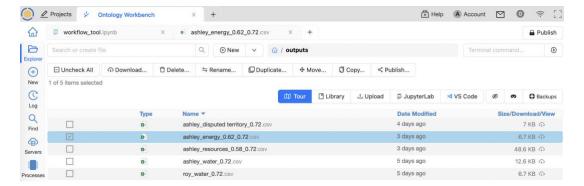
15. Repeat any or all of these steps to iteratively work toward what you feel is the best set of search results.

#### **Download Your Search Results**

16. Once you settle on your candidate topic text, and have completed Steps 1-3, download the results you exported in Step 1. To do so, click on the "Explorer" folder in the navigation menu (shown below).



17. That will show the Ontology Workbench folders/files menu you saw when first opening the workbench. In the Name column, click on "outputs." Within the outputs folder, check the box next to your exported file (shown below). The exported file will be named as "user ID\_export name\_search threshold\_cluster threshold." Click download in the nav menu, then click download again when prompted.



18. To return to the ontology workflow tool, click the "workflow tool.ipynb" tab near the top of the screen.

# **Record and Upload Your Analysis**

- 19. In a Google doc or in a row of the topic file, explain why you recommend or don't recommend adding this topic to the CCP ontology. This should briefly note (i) whether you recommend adding this as a new topic in the CCP ontology, (ii) the closest existing CCP topics, (iii) why this new topic tag is/isn't useful, (iv) which clusters/issues in your results should/shouldn't receive that topic tag, (v) possible new subtopics that might fit under the new topic (if applicable), (vi) changes you'd propose to the CCP ontology to accommodate the new topic (if applicable), and (vii) what other topic formulations you tried.
- 20. Name your exported topic file as: name\_topic\_search threshold\_cluster threshold\_v1 (or whichever version it is). If you wrote your explanatory notes in a Google doc, name the file as: name\_topic\_notes\_v1 (or whichever version it is).
- 21. Upload your exported topic file and explanatory notes in the submission folder for your topic.
- 22. Discuss your topic formulation, results, and analysis with the full team. Together we'll decide next steps before moving to final steps on the topic. In particular, this discussion will decide which types of provisions to **include** and **not include** in the set of provisions covered by this topic tag. This will be key in annotating your results in the next step.

#### Annotate and Re-upload Your Exported Topic File

23. Once your topic is cleared for the final steps, complete the final analysis in your exported topic file (shown below).

The exported csv shows your search results in the following format. Rows at the top note your **user** name, candidate **topic**, **search threshold**, **number of results** from the search, **cluster threshold**, **number of clusters**, and **number of unclustered** constitution sections. Columns show the **cluster ID** (group of text sections), **section text** (constitutional text matching your candidate topic), **section ID** (section number of the matching constitutional text), **constitution name** (country and year of the matching constitutional text), **link** (deep link to that constitutional text on Constitute), and **accept result** (where you'll note whether or not to accept the text matched to your candidate topic).

User	ashley					
Topic	energy independence and energy policy					
Search threshold	0.62					
Number of results	63					
Cluster threshold	0.72					
Number of clusters	6					
Number unclustered	29					
Cluster ID	Section text	Section ID	Constitution name	Link	Accept result	Notes
0	ensures realization of the financial credit and monetar	950	Azerbaijan_2016	https://www.constituteproje	No	
0	the definition and the implementation of monetary po	1019	Democratic_Republic_o	https://www.constituteproje	No	
0	determine monetary policy; and	3113	Zambia_2016	https://www.constituteproje	No	
0	to formulate and implement monetary policy.	4406	Zimbabwe_2017	https://www.constituteproje	No	
0	formulating monetary policy;	2111	South_Sudan_2013	https://www.constituteproje	No	
0	the harmonization of the economical, financial and mo	785	Niger_2017	https://www.constituteproje	No	
1	Energy policy.	4480	Uganda_2017	https://www.constituteproje	Yes	
1	energy policy.	5059	Kenya_2010	https://www.constituteproje	Yes	
1	energy policy;	2190	Sweden_2012	https://www.constituteproje	Yes	
2	Energy policy including electricity and gas reticulation	5075	Kenya_2010	https://www.constituteproje	Yes	
2	electricity and gas reticulation and energy regulation.	5177	Kenya_2010	https://www.constituteproje	Yes	
2	energy (including electricity and power generation and	4521	Papua_New_Guinea_20	https://www.constituteproje	Yes	
2	Energy and hydro electricity	3925	Zambia_2016	https://www.constituteproje	Yes	
2	electricity and the establishment of electric power sta-	4112	Nigeria_2011	https://www.constituteproje	Yes	
2	electricity and the establishment in that State of elect	r 4124	Nigeria_2011	https://www.constituteproje	Yes	
2	Electricity; gas and gas works; and other works for the	3425	Malaysia_2007	https://www.constituteproje	Yes	
3	The Andorran People, with full liberty and independent	2	Andorra_1993	https://www.constituteproje	No	
3	the defence of independence and sovereignty;	49	Mozambique_2007	https://www.constituteproje	No	
3	the independence, the sovereignty and the unity of the	2190	Mozambique_2007	https://www.constituteproje	No	
3	consolidating and strengthening the independence and	3	Mongolia 2001	https://www.constituteproie	No	

**First,** use the team's decisions on which types of provisions to include and not include to note which constitution sections should receive the topic tag in the "accept results" column. The "accept result" column auto-populates with "yes." For clusters or individual constitution sections that match your candidate topic, leave the "yes" in this column. For clusters or constitution sections that do not match your candidate topic, change this to "no" (shown in red above). For those where you're not sure, change this to "maybe."

We will use your line-by-line annotation to automatically apply an accepted new topic to these constitution sections in constitutions shown on <u>Constitute</u>. If you need more context on a constitution section to determine if it matches the candidate topic or not, click on the section link on that row of the spreadsheet.

**Second,** add rows for the **topic tag** and **topic label** (as shown below). You'll get this information from the CCP ontology assignments sheet. You can deviate from what is noted on the assignments sheet if needed, but just flag this so we can make those changes across other platforms.

**Third,** change the "topic" row to instead be labeled **topic semantic search text** (as shown below). This is the *internal* topic formulation you used in the ontology tool to find constitutional provisions. We will retain this search text so we can replicate the results in the future as needed.

**Fourth,** add a row for the **topic description** (as shown below). This is the *public-facing* topic formulation we'll use to describe the topic on Constitute. It will be very similar to the topic semantic search text, but it could add additional text that is useful to Constitute users but was excluded from the topic semantic search text since it distracts the algorithm.

**Lastly,** add a row for **CCP notes** that lists the types of provisions that we INCLUDE and DO NOT INCLUDE under this topic tag.

User	catalina						
Topic tag	relsup						
Topic label	Public support for religion						
Topic description	Guarantees or allows public support for religion or assistance, or funding.	religious institutio	ons like houses of worship	o, schools, and polit	tical parties. This i	ncludes governi	mental recognition
Topic semantic search text	Public support for religion, religious institutions, reli	igious purposes.	Allows for government fu	nding of religious in	stitutions, includin	ng churches and	K-12 schools.
Search threshold	0.65						
Number of results	63						
Cluster threshold	0.7						
Number of clusters	3						
Number unclustered	12						
	geographically distributed across Africa, Asia, Euro						
CCP notes	government funding phrase, yielded more precise ontology.  INCLUDE references to recognizing, assisting, or fand state, freedom of religious institutions, and tax-public support for religion/religious institutions since the exact meaning) is not clear in the segment itself.	constitution section unding any religion exempt status, are that is also cover if (e.g., when the	ons. This is also an extremous institutions. DO NOT as these are captured by ered by topic description segment is part of a list a	INCLUDE segment existing CCP topics for seprel. For any and the whole list is	ebated topic, so it is on secular publi (seprel, freerel, re constitution segme	ic education, seletax). DO NOT ents where the co	be included in the paration of church INCLUDE bans or context (and thus
CCP notes	government funding phrase, yielded more precise ontology.  INCLUDE references to recognizing, assisting, or fax and state, freedom of religious institutions, and tax public support for religion/religious institutions since	constitution section unding any religion exempt status, are that is also cover if (e.g., when the	ons. This is also an extremous institutions. DO NOT as these are captured by ered by topic description segment is part of a list a	INCLUDE segment existing CCP topics for seprel. For any and the whole list is	ebated topic, so it is on secular publi (seprel, freerel, re constitution segme	ic education, seletax). DO NOT ents where the co	be included in the paration of church INCLUDE bans of context (and thus
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24. Upload your edited csv and explanatory doc to the submissions folder for your topic.