Forward - Backward search of literature based on key papers

Working Title:TfC Ch 3 Team 1

Contact Points

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Approach

The authors provided a list of four key-references:

- Evans, Tegan, Stephen Fletcher, Pierre Failler, and Jonathan Potts. "Untangling Theories of Transformation: Reflections for Ocean Governance." Marine Policy 155 (September 2023): 105710. https://doi.org/10.1016/j.marpol.2023.105710.
- Fisher, Eleanor, Eduardo Brondizio, and Emily Boyd. "Critical Social Science Perspectives on Transformations to Sustainability." Current Opinion in Environmental Sustainability 55 (April 2022): 101160. https://doi.org/10.1016/j.cosust.2022.101160.
- Loorbach, Derk, Niki Frantzeskaki, and Flor Avelino. "Sustainability Transitions Research: Transforming Science and Practice for Societal Change." Annual Review of Environment and Resources 42, no. 1 (October 17, 2017): 599–626. https://doi.org/10.1146/annurev-environ-102014-021340.
- Scoones, Ian, Andrew Stirling, Dinesh Abrol, Joanes Atela, Lakshmi Charli-Joseph, Hallie Eakin, Adrian Ely, et al. "Transformations to Sustainability: Combining Structural, Systemic and Enabling Approaches." Current Opinion in Environmental Sustainability 42 (February 2020): 65–75. https://doi.org/10.1016/j.cosust.2019.12.004.

They requested the following:

Task 1

- Search for all references the key-references **cites**
- Search for all references the key-references is **cited** in

Task 2

Two additional papers were provided by the authors:

- Håkon Aspøy, Yennie K. Bredin, Berit Junker-Köhler, David N. Barton, Inventory of behaviour science theories potentially influencing biodiversity decision making Deliverable number: D1.2, Norwegian Institute for Nature Research (NINA)
- Waddock, Fazwy in review (attached): PLEASE DO NOT SHARE, CONFIDENTIAL

Of these additional references, the authors requested the following: - extract list of references cited in the two additional papers

Task 3

Quantify the **local impact** of the cited references in the key-papers by counting how often the reference is cited in the respective key-paper.

Task 4

Quantify the **global impact** of the references the key-paper **cites** as well as the refererences where the ke-paper is **cited** in by counting the number each of these papers is cited globally and dividing it by the time since publication of the respective paper.

Methods

Task 1

key-references cites references

The references were manually downloaded from the Web of Science and are saved in different formats in the folder `./Task 1/Scopus`. It is not expected to be different when downloading these from the Web of Science.

key-references is cited in

The references were manually downloaded from the Web of Science and are saved in different formats in the folder `./Task 1/WoS`.

Task 2

The references in Aspøy et al and Waddock & Fazwy were extracted by: - copying the references out of the pdf and cleai=ning the text - converting the formated references into different formats using Reference Extractor resulting files are stored in the folder ./Task 2/'

Task 3

The **local importance** is determined by counting the number of times a reference is cited in a key-paper. This is done by:

1. converting the key-papers into a single text file (`./Task 3/....txt`)
2. extract all citations in paper by extracting all `[...]` or(...)`, depending on citation style` (./Task 3/... - extracted [].txt')
3. clean the text files to remove regular brackets and expand e.g [1-3] to [1], [2], [3] (`./Task 3/... - extracted - cleaned.txt`)
4. extracting the references cited in the key-papers and convert them usinf the same approach as for Task 2 (`./Task 3/... - ref.csv`)
5. use the script in './Task 3/References cited how often in four.qmd
6. resulting files are saved in `./Task 3/... - citation occurances.csv`. The columns are:
   - **first Number**: Internal number
   - **ref**: Reference number of the cited reference in the key-paper
   - **Freq**: Number of times the reference is cited in the key-paper
   - **citation**: The complete citation of the reference

Task 4 The **global importance** is determined by counting the number of times a reference is cited in a key-paper. For this, an automated script is required that automatically reads the number of times cited.