

# Paper Hunter

Software composition seminar project A2019

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A web plugin for paper collection

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# Problem

- Researchers starting a new project
- Systematic literature review
  - aims to provide a complete, exhaustive summary of current literature relevant to a research question
- This procedure is exhausting

# Goal

- Create web extension to facilitate this process
- Collection of state-of-the-art  
(searching for published papers)
- Snowballing  
(checking references and/or citations)

# Method

- collect paper information from Google Scholar
- basic idea:
  - manually add relevant papers
  - scrape the web for required information  
i.e. mine references/citations of seed of papers
  - collect and store information

# Current state

- 1 select paper
- 2 fetch website of the paper
- 3 extract DOI
- 4 fetch bibtex
- 5 show gathered information in side panel

# Challenges

- finding the right tools
  - e.g. `fetch()` vs `XMLHttpRequest`
- making them work
  - e.g. background vs content script

## Further steps

- create database to store papers (and relations)
- fetch HTML page(s) of "Cited by" papers
- store those papers (with their relations) in database
- automate process
- download database to local file
- (extend functionalities: multiple collections simultaneously, better UI, collect more data)

# Questions

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