

Rayyan: An Intelligent Systematic Review Software

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Outline

- **Systematic review article**
- **Key processes of systematic reviews**
- **Rayyan**
- **Hands-on practice (Rayyan)**
- **Hands-on practice (Covidence)**
- **Some useful tools**

Activity

Let's get to know each other

► Let's get to know each other



- What's your university degree?
- What do you hope to learn today?



Share your answers in the chat.

...

Systematic review

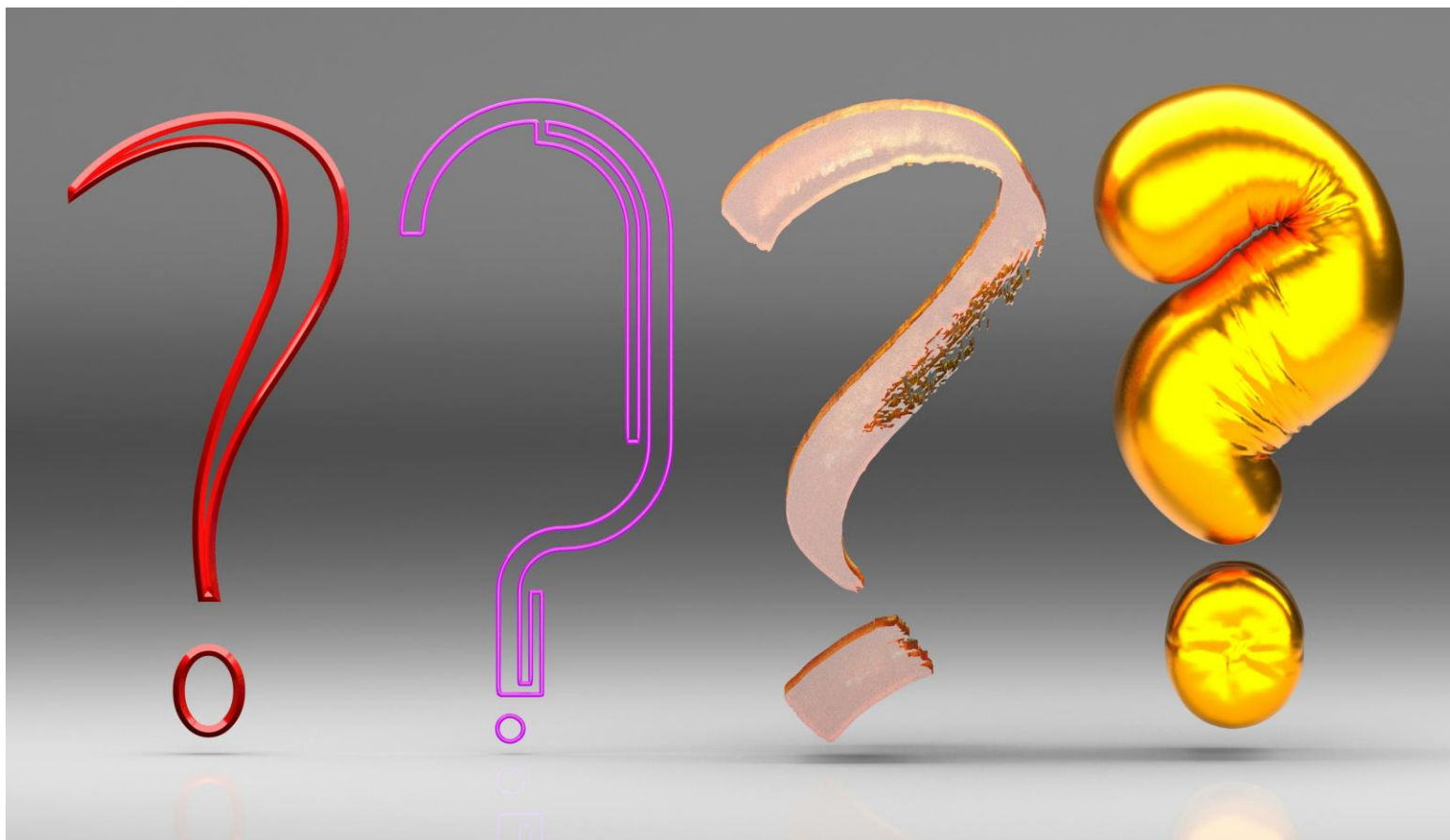
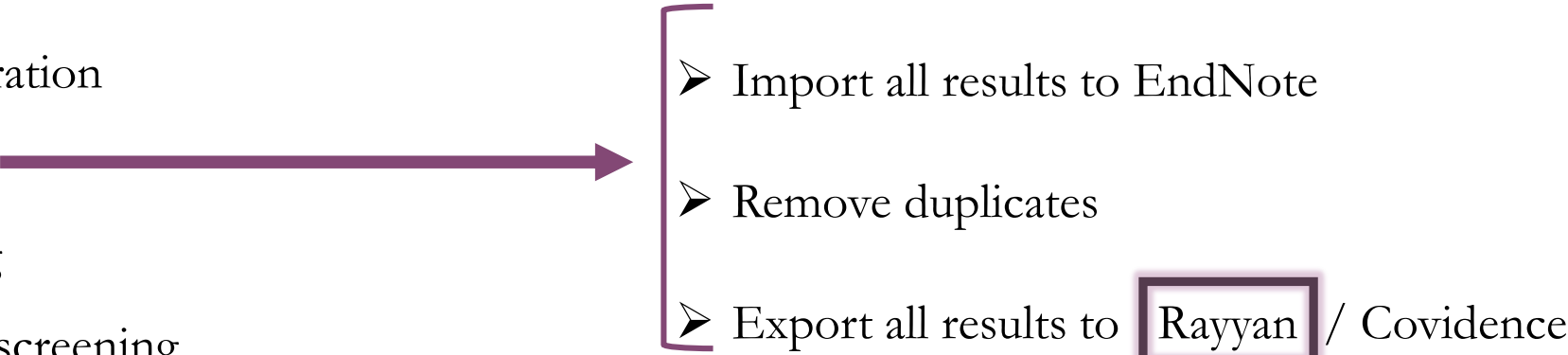


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Key processes of systematic reviews (Tawfik et al., 2019)

1. Research question
 2. Preliminary search
 3. Protocol writing and registration
 4. Searching in databases
 5. Title and abstract screening
 6. Full-text downloading and screening
 7. Hand searching
 8. Quality assessment and data extraction
 9. Data synthesis and statistical analysis (if needed)
 10. Manuscript writing
- 
- A diagram illustrating the workflow following the search phase. A horizontal arrow points from the box 'Searching in databases' (item 4) to a vertical bracketed list of actions:
- Import all results to EndNote
 - Remove duplicates
 - Export all results to Rayyan / Covidence

Rayyan



- A screening management tool to conduct systematic reviews
- Collaborative environment for researchers

Accessibility:

- Online
- Offline via Rayyan mobile app

Rayyan steps

1. Import references
2. Invite reviewers
3. Enjoy screening 😊

Features

- ✓ Deduplication
- ✓ Including/excluding references; labeling them; adding notes
- ✓ Filtering
- ✓ Text mining
- ✓ Keyword searching
- ✓ AI- assisted 5-star relevance ranking

Hands-on practice

Rayyan

Hands-on practice

Covidence

Some useful tools

Resources for registering protocols

Resource	Explanation
PROSPERO	For scoping reviews, rapid reviews, umbrella reviews, and integrative reviews (Not scoping reviews)
Cochrane Database of Systematic Reviews	For Cochrane protocols only
Campbell Collaboration	For systematic reviews/ peer-review protocols

Right review tool

- An online open-access tool
- Assisting researchers with choosing a suitable review type based on their research questions



<https://rightreview.knowledgetranslation.net>

SR-Accelerator

- The Systematic Review Accelerator (SRA)
- A free software developed at Bond University
- Deduplication
- A search translator to speed up translation of searches from different databases

[SR-Accelerator link](#)

Academic phrase samples for writing different sections of your review



Academic Phrasebank

 [Introducing work](#)[Referring to sources](#)[Describing methods](#)[Reporting results](#)[Discussing findings](#)[Writing conclusions](#)

Academic Phrasebank

GENERAL LANGUAGE FUNCTIONS

[Being cautious](#)[Being critical](#)[Classifying and listing](#)[Compare and contrast](#)[Defining terms](#)[Describing trends](#)[Describing quantities](#)[Explaining causality](#)[Giving examples](#)[Signalling transition](#)[Writing about the past](#)

Home page

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Questions ?

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Thank you

