

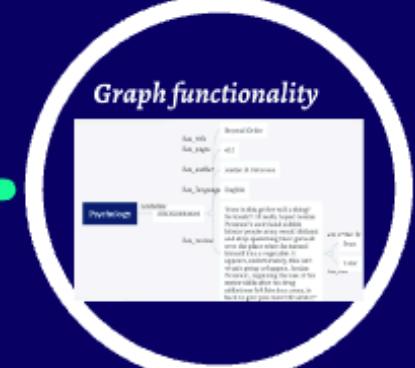
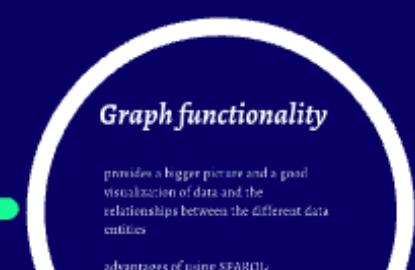
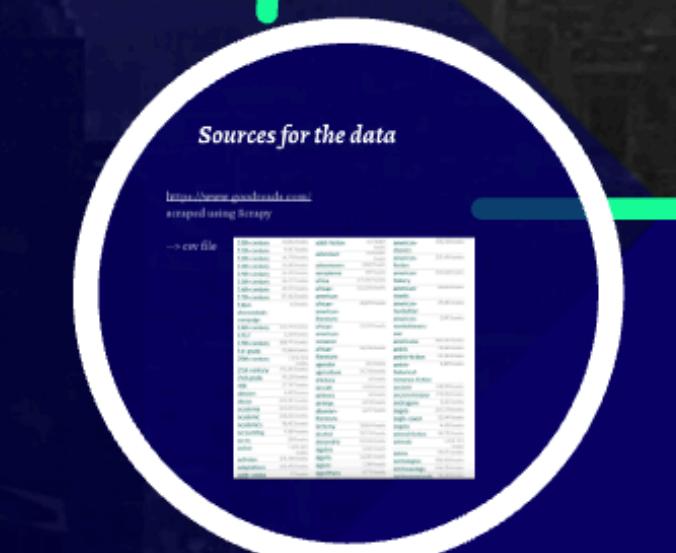
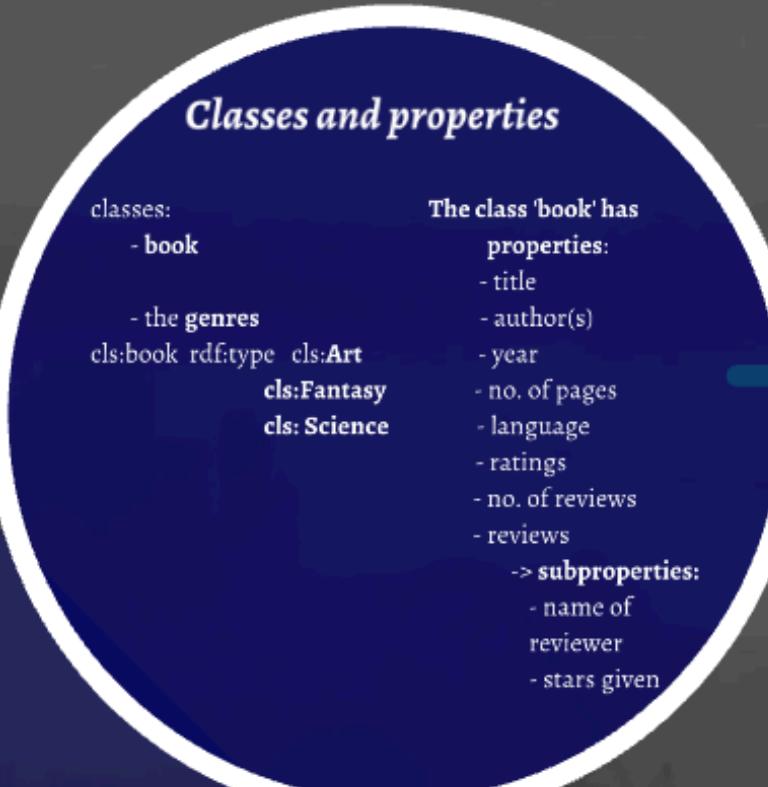
Reading Preferences Analysis based on Literature Ontology

Idea/purpose of the project

- create a books ontology
- make an analysis of readers' preferences through the SPARQL queries

Main functionalities

- show the relationship between genres, books and reviewers
- answer questions such as:
 - what genres are the least reviewed by readers?
 - from which genre are the most read books under 50 pages written last year in French?
 - the top 10 most reviewed books that have more than the average number of pages from a certain genre
 - who has written the most reviews on Goodreads?



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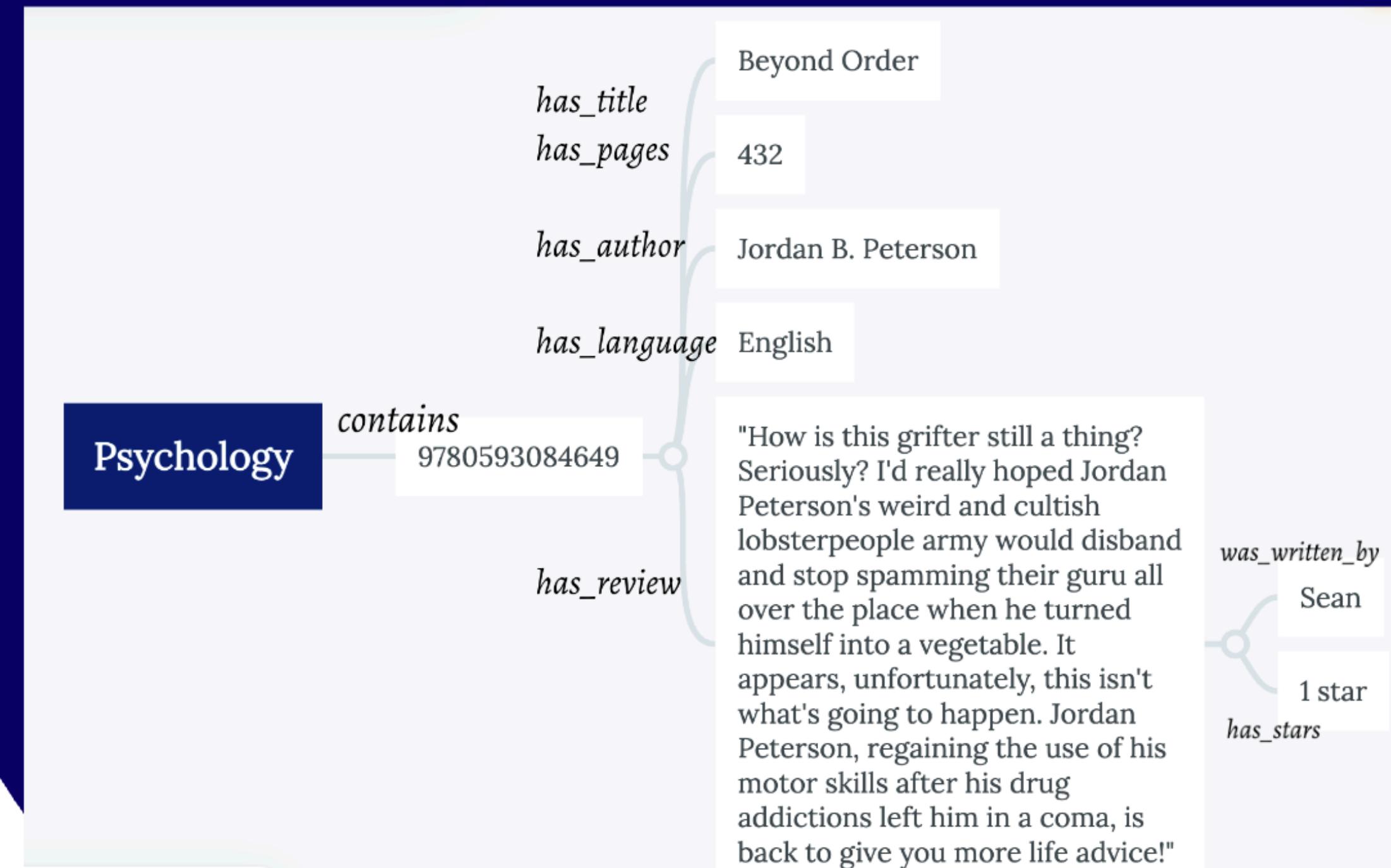
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the top 10 most reviewed books that have more than the average number of pages from a certain genre

who has written the most reviews on Goodreads?

Graph functionality



Psychology

contains

9780593084649

has_review

432

has_author

Jordan B. Peterson

has_language

English

"How is this grifter still a thing? Seriously? I'd really hoped Jordan Peterson's weird and cultish lobsterpeople army would disband and stop spamming their guru all over the place when he turned himself into a vegetable. It appears, unfortunately, this isn't what's going to happen. Jordan Peterson, regaining the use of his motor skills after his drug

was_w

has_st

"How is this grifter still a thing? Seriously? I'd really hoped Jordan Peterson's weird and cultish lobsterpeople army would disband and stop spamming their guru all over the place when he turned himself into a vegetable. It appears, unfortunately, this isn't what's going to happen. Jordan Peterson, regaining the use of his motor skills after his drug addictions left him in a coma, is back to give you more life advice!"

was_written_by

Sean

1 star

has_stars

Graph functionality

provides a bigger picture and a good visualization of data and the relationships between the different data entities

advantages of using SPARQL:
- do long, complicated queries

analysis of readers' preferences, behavior

Sources for the data

<https://www.goodreads.com/>
scraped using Scrapy

--> csv file

10th-century	10,842 books
11th-century	9,597 books
12th-century	14,770 books
13th-century	13,383 books
14th-century	21,375 books
15th-century	24,777 books
16th-century	69,575 books
17th-century	87,432 books
1864-shenandoah-campaign	43 books
18th-century	153,742 books
1917	2,558 books
19th-century	588,793 books
1st-grade	93,866 books
20th-century	1,155,524 books
21st-century	791,893 books
2nd-grade	95,230 books
40k	27,747 books
ableism	6,403 books
abuse	535,441 books
academia	250,695 books
academic	538,655 books
academics	98,433 books
accounting	9,089 books
accra	638 books
action	1,109,205 books
activism	121,186 books
adaptations	142,692 books
addis-ababa	77 books
adult-fiction	1,978,009 books
adventure	2,593,897 books
adventurers	8,862 books
aeroplanes	987 books
africa	371,067 books
african-american	221,292 books
african-american-literature	34,875 books
african-american-romance	15,315 books
african-literature	44,724 books
agender	351 books
agriculture	31,724 books
ahistory	65 books
aircraft	4,243 books
airliners	22 books
airships	2,978 books
albanian-literature	2,277 books
alchemy	38,814 books
alcohol	33,714 books
alexandria	54,626 books
algebra	3,581 books
algeria	12,381 books
algiers	1,384 books
algorithms	8,775 books
american-classics	131,518 books
american-fiction	221,456 books
american-history	460,360 books
american-novels	60,203 books
american-revolution	39,485 books
american-revolutionary-war	3,893 books
americana	287,947 books
amish	79,865 books
amish-fiction	21,324 books
amish-historical-romance-fiction	1,005 books
ancient	148,090 books
ancient-history	173,936 books
androgynie	1,225 books
angels	267,278 books
anglo-saxon	32,549 books
angola	4,450 books
animal-fiction	46,725 books
animals	1,014,724 books
anime	95,971 books
anthologies	384,600 books
anthropology	346,736 books
anthronomorphi	54,333 books

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2nd-grade	95,230 books
40k	27,747 books
ableism	6,403 books
abuse	535,441 books
academia	250,695 books
academic	538,655 books
academics	98,433 books
accounting	9,089 books
accra	638 books
action	1,109,205 books
activism	121,186 books
adaptations	142,692 books
addis-ababa	77 books
adult-fiction	1,978,009 books
adventure	2,593,897 books
adventurers	8,862 books
aeroplanes	987 books
africa	371,067 books
african-american	221,292 books
african-american-literature	34,875 books
african-american-romance	15,315 books
african-literature	44,724 books
agender	351 books
agriculture	31,724 books
ahistory	65 books
aircraft	4,243 books
airliners	22 books
airships	2,978 books
albanian-literature	2,277 books
alchemy	38,814 books
alcohol	33,714 books
alexandria	54,626 books
algebra	3,581 books
algeria	12,381 books
algiers	1,384 books
algorithms	8,775 books
american-classics	131,518 books
american-fiction	221,456 books
american-history	460,360 books
american-novels	60,203 books
american-revolution	39,485 books
american-revolutionary-war	3,893 books
americana	287,947 books
amish	79,865 books
amish-fiction	21,324 books
amish-historical-romance-fiction	1,005 books
ancient	148,090 books
ancient-history	173,936 books
androgyne	1,225 books
angels	267,278 books
anglo-saxon	32,549 books
angola	4,450 books
animal-fiction	46,725 books
animals	1,014,724 books
anime	95,971 books
anthologies	384,600 books
anthropology	346,736 books
anthropomorphi	54,333 books

Classes and properties

classes:

- book

- the **genres**

cls:book rdf:type cls:**Art**

cls:**Fantasy**

cls: **Science**

The class 'book' has

properties:

- title
- author(s)
- year
- no. of pages
- language
- ratings
- no. of reviews
- reviews

-> **subproperties:**

- name of reviewer
- stars given

Potential technologies

Python
RDF library
Turtle
SPARQL

OpenRefine / GraphDB/ Protege/ Virtuoso
NLP for reviews

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Thank you!

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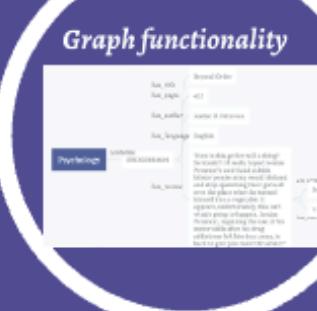
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