Outline

- ❏ Introducing Touché Shared Task (Argument Retrieval)

- ❏ Forming project groups

- ❏ Registering students at Discord (Similar to Skype)

Touché @ CLEF 2020
1st Shared Task on Argument Retrieval

Alexander Bondarenko
Matthias Hagen
Martin Potthast
Henning Wachsmuth
Meriem Beloucif
Chris Biemann
Alexander Panchenko
Benno Stein

[touche.webis.de]

Argument Retrieval
Argument and Argumentation

Argument:

- ❑ A conclusion (claim) supported by premises (reasons).   [Walton et al. 2008]

- ❑ Conveys a stance on a controversial topic.   [Freeley and Steinberg, 2009]

Conclusion	*Argumentation will be a key element of conversational agents.*
Premise 1	*Superficial conversation ("gossip") is not enough.*
Premise 2	*Users want to know the "Why" to make informed decisions.*

Argumentation:

- ❑ Usage of arguments to achieve persuasion, agreement, . . .

- ❑ Includes rhetorical and dialectical aspects.

Argument Retrieval
Shared Tasks

Task 1: Supporting argumentative conversations

- ❑ Scenario: Users search for arguments on controversial topics

- ❑ Task: Retrieve "strong" pro/con arguments on the topic

- ❑ Data: 300,000 "arguments" (short text passages)

Task 2: Answering comparative questions with arguments

- ❑ Scenario: Users face personal decisions from everyday life

- ❑ Task: Retrieve arguments for "Is X better than Y for Z?"

- ❑ Data: ClueWeb12 or ChatNoir [chatnoir.eu]

- ❑ Run submissions similar to "classical" TREC tracks

- ❑ Software submissions via TIRA [tira.io]

Lab Project
Milestones

- [ ] **Literature Research**   Find relevant research papers to the task

- [ ] **Data Analysis**   Descriptive statistics, highlighting variables of interest.

- [ ] **Technology Stack**   Decide upon the software libraries you are going to use.
- [ ] **Vertical Prototype**   Working prototype with a basic retrieval model.
- [ ] **Refined Prototype**   Prototype that uses and advanced/refined retrieval model.

- [ ] **Deployment on Tira**   We will give a tutorial on Tira during the semester
- [ ] **Evaluation**   Evaluate the results of your retrieval models.
- [ ] **Documentation**   Write a README; incl. all commands for deployment.
- [ ] **Report**   Write the final report of up to max. 10 pages.
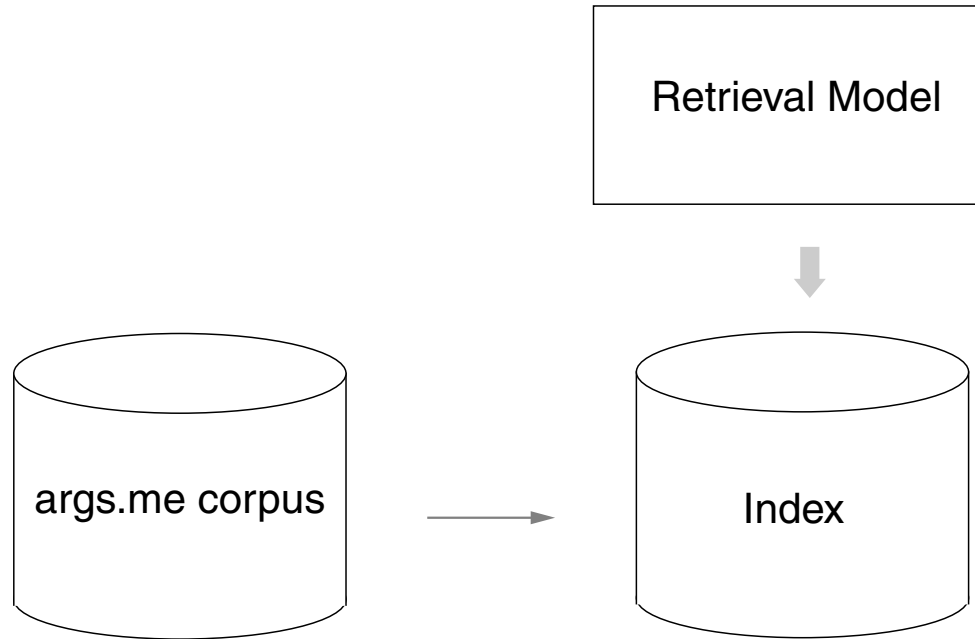
Lab Project

Topic ID: 0001

Query: ban abortion

Description: You are a conservative trying to persuade your liberal colleagues of a ban of abortions. You are primarily looking for arguments supporting your stance, but are somewhat interested in the arguments your colleagues might use.
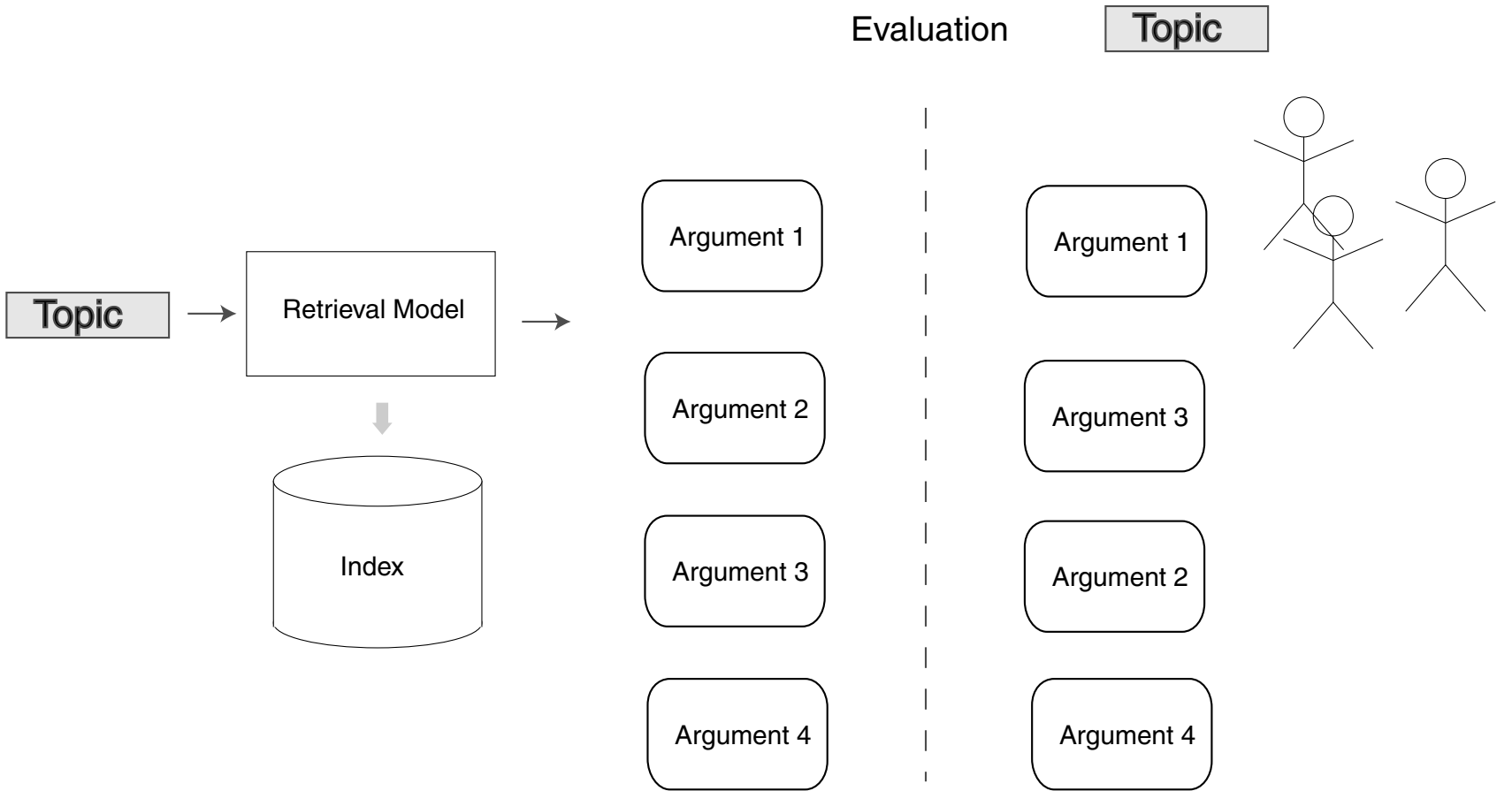
Lab Project
Shared Task1: Indexing

Retrieval Model

args.me corpus

Index

Lab Project
Shared Task1: Evaluation

Lab Project

- ❑ Data Acquisition for Argument Search: The args.me Corpus

  Statistics and description of the corpus.

- ❑ Building an Argument Search Engine for the Web

  Main steps of designing an argument search engine

- ❑ Argument Search: Assessing Argument Relevance.

  Evaluation of retrieval models for argument search

Lab Project

Topic ID: 01

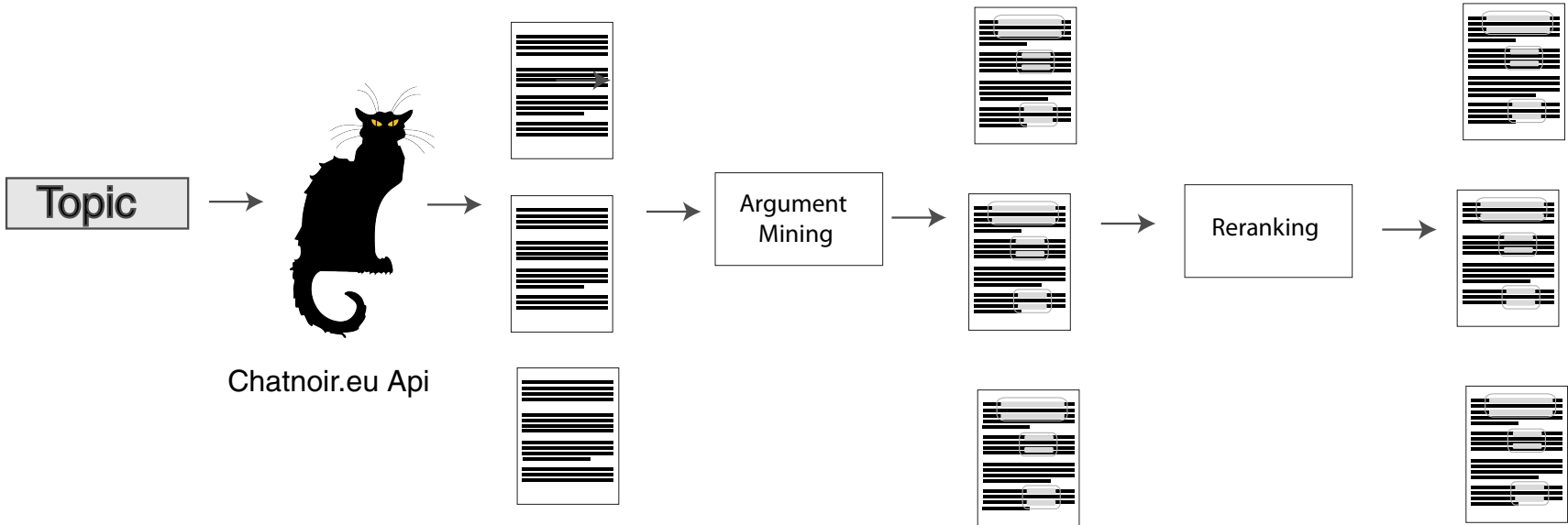**Query:**   Which is better, laptop or desktop?

Description: A user searches for information to compare such ideas as sex and love. It is important that the differences of the two subjects are discussed.

Narrative: Relevant documents relating to this issue will discuss both definitions of the subjects as well as their contrasting. Documents which include only definitions and descriptions of the subjects without their clear comparison are not relevant. Documents containing definitions and comparison of other subjects are relevant as long as the main focus is on the given topic.
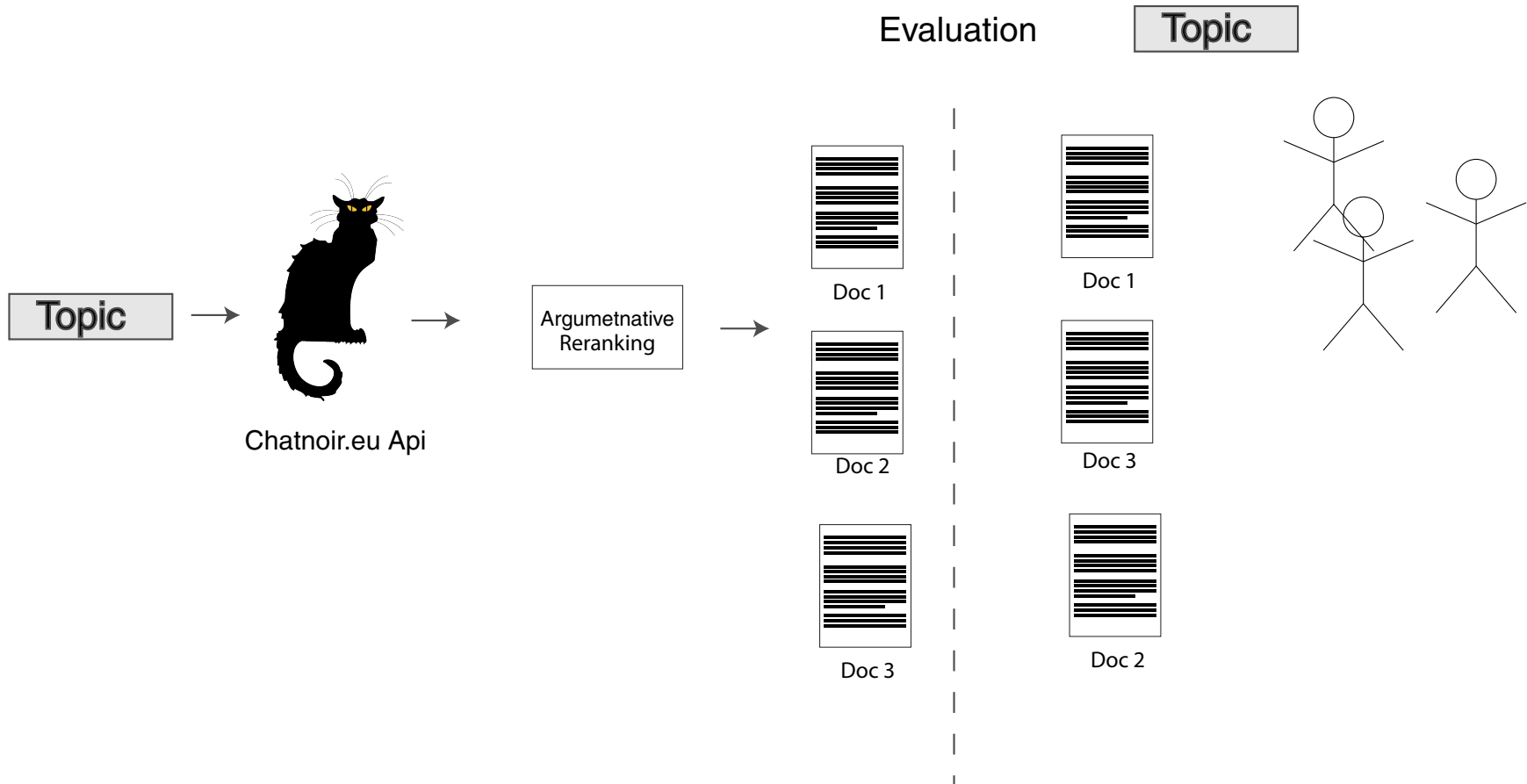
Lab Project
Shared Task2: Argumentative Reranking

Topic → Chatnoir.eu Api → [documents] → Argument Mining → [documents] → Reranking → [documents]

Lab Project
Shared Task2: Evaluation

Evaluation   Topic

Topic → 🐈 → Argumetnative Reranking → Doc 1 / Doc 2 / Doc 3 | Doc 1 / Doc 3 / Doc 2

Chatnoir.eu Api

Lab Project

- ❑ Answering Comparative Questions: Better than Ten-Blue-Links?

- ❑ Webis at TREC 2018: Common Core Track.

   A description of an argumentative raranking approach

- ❑ TARGER: Neural Argument Mining at Your Fingertips.

   An online tool to mine arguments from a text