



EXERCISE: GENERAL PRIVACY CONCEPTS & K-ANONYMITY

PRIVACY AND TECHNOLOGY (PaT)

L.079.05705

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Reminder

Reading groups

- Necessary to get Course Achievement (for the final exam)
- Book a slot on PANDA and choose a paper
- If your exercise group is booked out, choose the other one
- Deadline: 27th October
- Submission: Thursday before your presentation (on PANDA)

Exam and CA registration now open in PAUL!

CA Grading

Analysis:

- Template on PANDA (Don't just fill it out! No bullet points!)
- Write a report covering <u>all</u> aspects from the template

Summary:

 1-2 pages, covering main ideas: problem and related work, methodology, results, limitations & future work

Presentation:

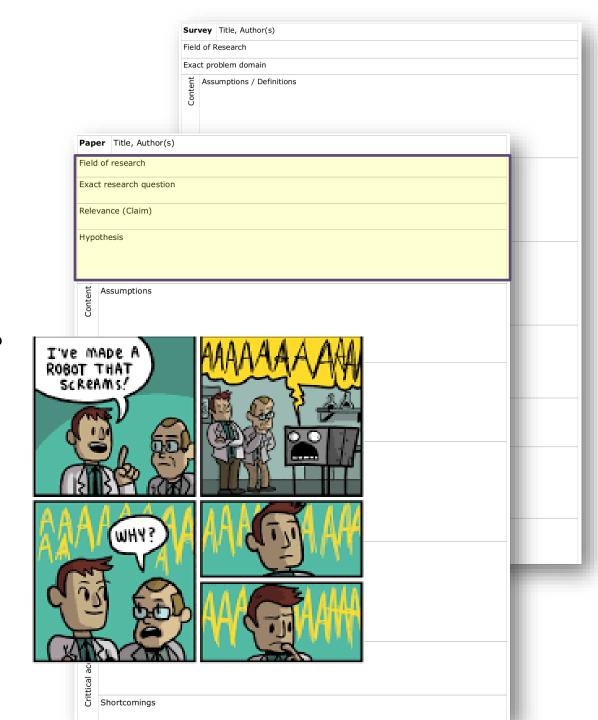
- Every member of the group should present!
- 20 minutes + max. 15 minutes of discussion

How to analyse

"Analysis Template" provided in PANDA

Paper idea

- What is the field of research?
- What is the problem the paper tries to solve?
- What is the exact research question?
- What is the paper hypothesis?
- How relevant is this research?

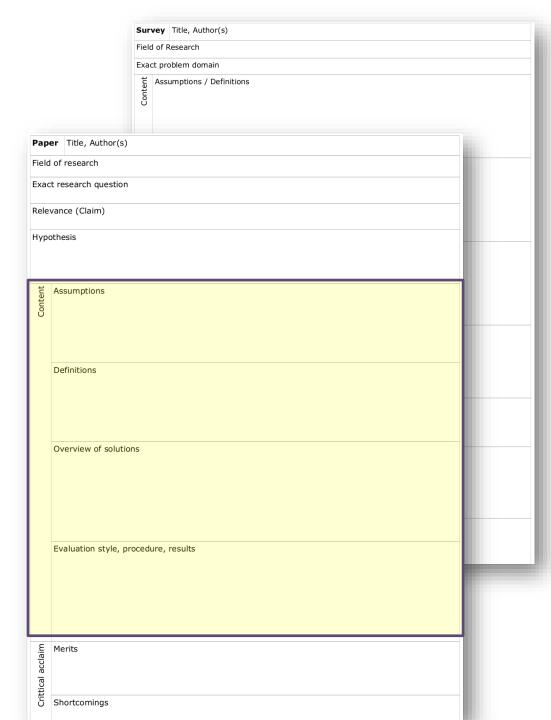


How to analyse

"Analysis Template" provided in PANDA

Paper content

- What are the assumptions of the paper?
- Which definitions are contained?
- What is the idea for solving the problem?
- How is the evaluation carried out? Does it suffice to demonstrate/substantiate the claims?



How to analyse

"Analysis Template" provided in PANDA

Critical Acclaim

- What are the merits?
- What are the shortcomings?

			This Author/s)	
			Title, Author(s)	
		Field of Research Exact problem domain Assumptions / Definitions		
		Content		
Paper	Title, Author(s)			
Field o	of research			
Exact	research question			
Releva	ance (Claim)			
Hypothesis				
ti A	Assumptions			
Content				
	Definitions			
C	Overview of solution	าร		
E	Evaluation style, procedure, results		results	
Ē N	1erits			
Crittical acclaim				
tical				
i c	Shortcomings			

Today's Outline

- Quiz: General Privacy Background
- Coding & Thinking: Practicing with k-Anonymity

Quiz: General Privacy Concepts



Socrative URL:

https://api.socrative.com/rc/ccmsmp

(Room name: P34TZ)

Practicing with k-Anonymity

Learning Goal

- Learn about the k-Anonymity concepts and problems hands-on using Python
- Apply methods and implement practical solutions

Tasks

- Download material from PANDA, follow instructions
- Solve the problems and answer questions

Resources

- Open source book: Near, Joseph P. and Abuah, Chiké. (2021) "Programming Differential Privacy". (Vol.1.)
- Adults with incomes dataset: http://www.cs.toronto.edu/~delve/data/adult/desc.html