

Seminar in Advanced Human-Centered AI

Session 1: Introduction

Chat Wacharamanotham
Spring Semester 2026

<https://chatw.ch/shai>



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PhD in Human-Computer interaction from RWTH Aachen University, Germany

Previously:

Assistant professor at University of Zurich

Lecturer at Swansea University, UK

Research: Improving how computer can help people do better and transparent science <https://chatw.ch>



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Intended learning outcomes

By the end of this course, students will be able to

- ❑ understand ethical considerations and methods for incorporating human perspectives in AI systems and technologies.
- ❑ evaluate the human-centered aspects of AI technologies.
- ❑ explain methods to study HCI in AI-powered systems, formulate sound and valid arguments in written form, and orally prepare and orally present and discuss scientific work

<https://chatw.ch/shai>



Topics

- **Interaction design for HCAI**
- **Fairness, accountability, transparency, and explainability**
- AI and creative work
- AI and knowledge work
- AI for user experience research
- Artificial general intelligence and superintelligence

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Course logistics

See the syllabus

Seminar in Advanced Human-Centered Artificial Intelligence — 2026

Instructor: Chat Wacharamanotham (to email, see OLAT) Office hours: <https://chatw.ch/h>

Course format: Seminar

COURSE DESCRIPTION

This seminar will explore research in Human-Centered Artificial Intelligence. Students will learn about the challenges in developing human-centric, ethical, and responsible artificial intelligence systems, and the design and research methods to address them. Students will engage with both seminal and forefront research articles through role-playing as peer reviewers, hackers, researchers, practitioners, and future archeologists.

INTENDED LEARNING OUTCOMES

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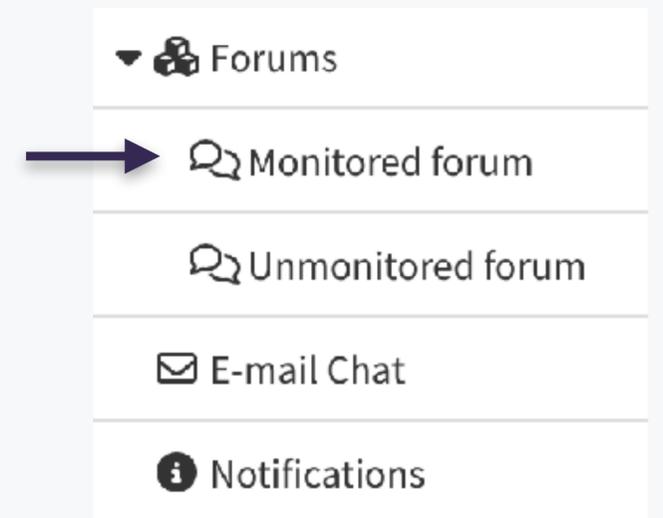
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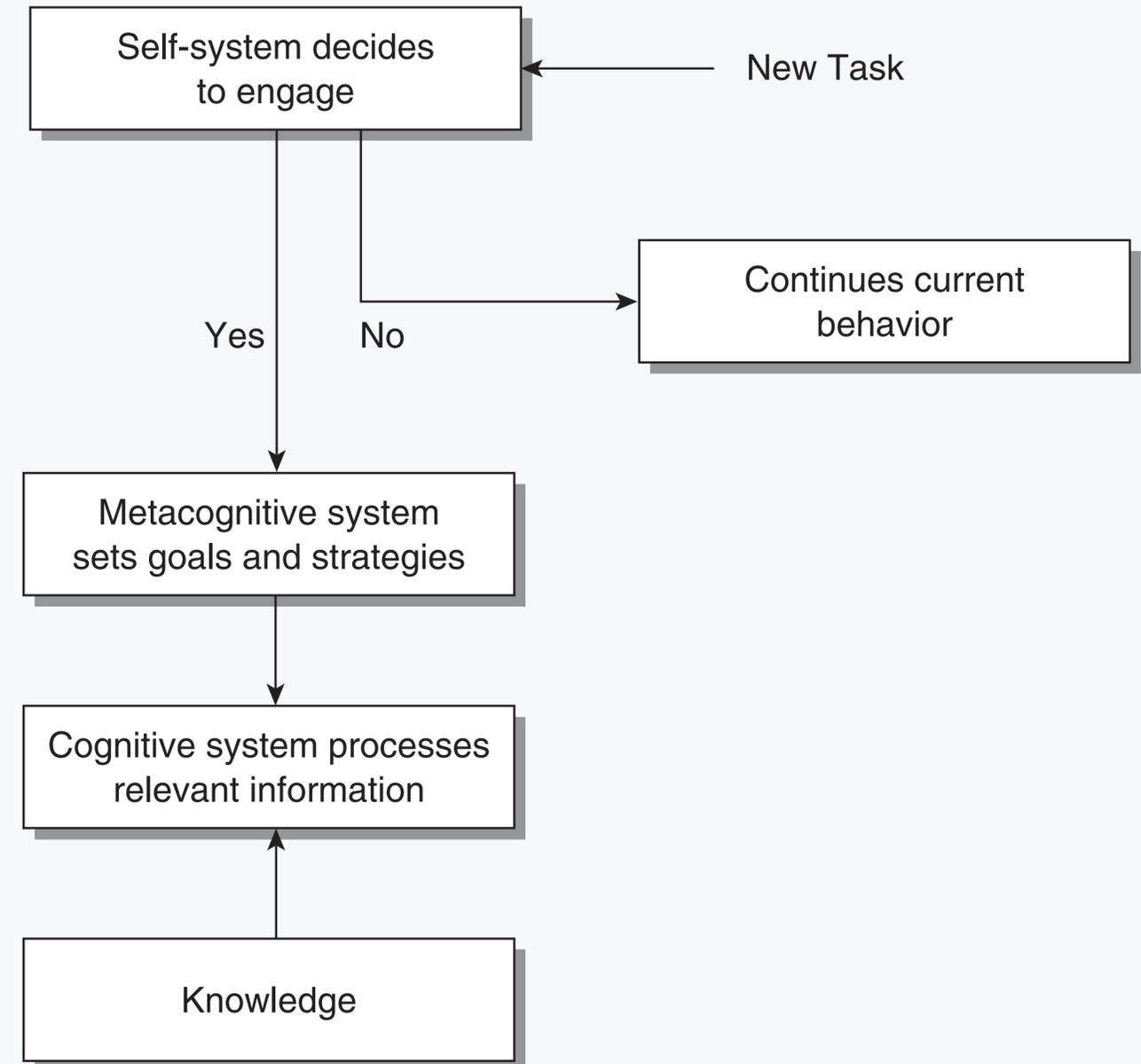
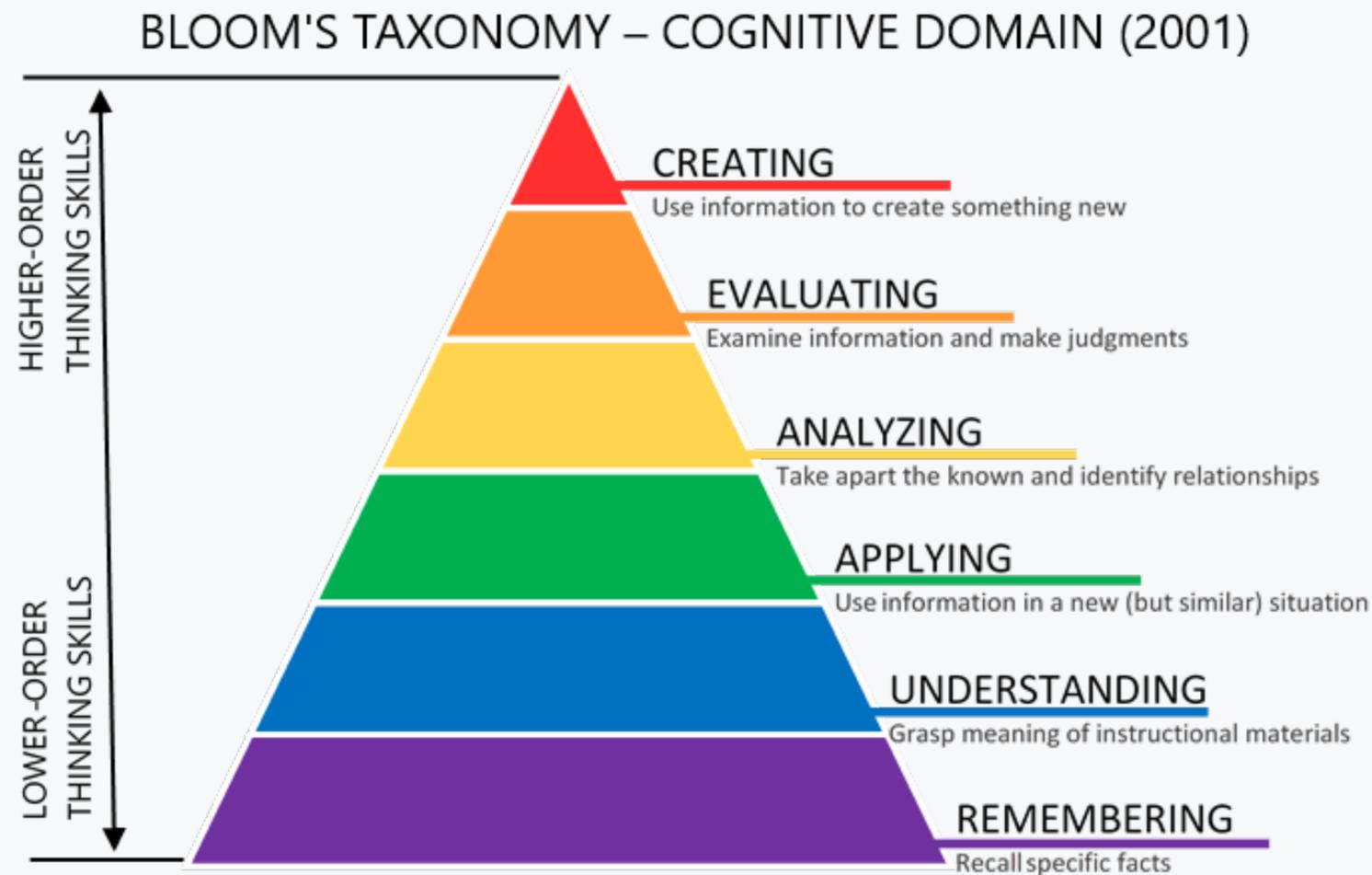
Get help

- For [questions that are not sensitive](#) → post on OLAT forum “Monitored forum”. Chat respond on Wednesdays and Fridays
- “Unmonitored forum” are for students only to form teams
- [Chat’s office hours](#) are on Wednesdays 14:00–15:30. With exceptions: chatw.ch/h No advance appointments needed. Just come by at BIN 2.B.07.
- Last resort: Email via OLAT’s “Email Chat” section
- If all other channels fail, email chat@ifi.uzh.ch



Roles of reflection

Model of behavior



Reflective practice

“The purpose of reflection is therefore to bring our reasoning processes and behaviour patterns to the surface and make them explicit. However, uncovering these can be difficult because so much of this knowledge is tacit and spontaneous. When we develop a pattern of behaviour that works in certain situations, we will tend to repeat it until it becomes automatic. We can’t describe the processes involved because we are not aware of what is going on. It is only when something goes wrong or something unexpected happens that we may stop and think about what we did and what we could or should have done in the situation.”

Exercise: Your first reflective writing

How might this course to contribute to your professional life?

Some questions that you might consider:

- What are your long-term goals? Whether you have a specific career goal or not, imagine you are talking to a friend five years from now: how would you like to describe what you are doing?
- What made you choose what you are doing at the moment? What do you hope to gain from it?
- What kind of professional practitioner do you want to be?
- Where does your sense of achievement lie?
- What are you looking forward to most?
- What are the key areas where you feel you need to develop?
- What could hinder your development?
- How could you overcome the barriers to your development?

(from Bassot, 2024, Theme 3.1)

Write your private reflection below:

(Leave this margin empty)

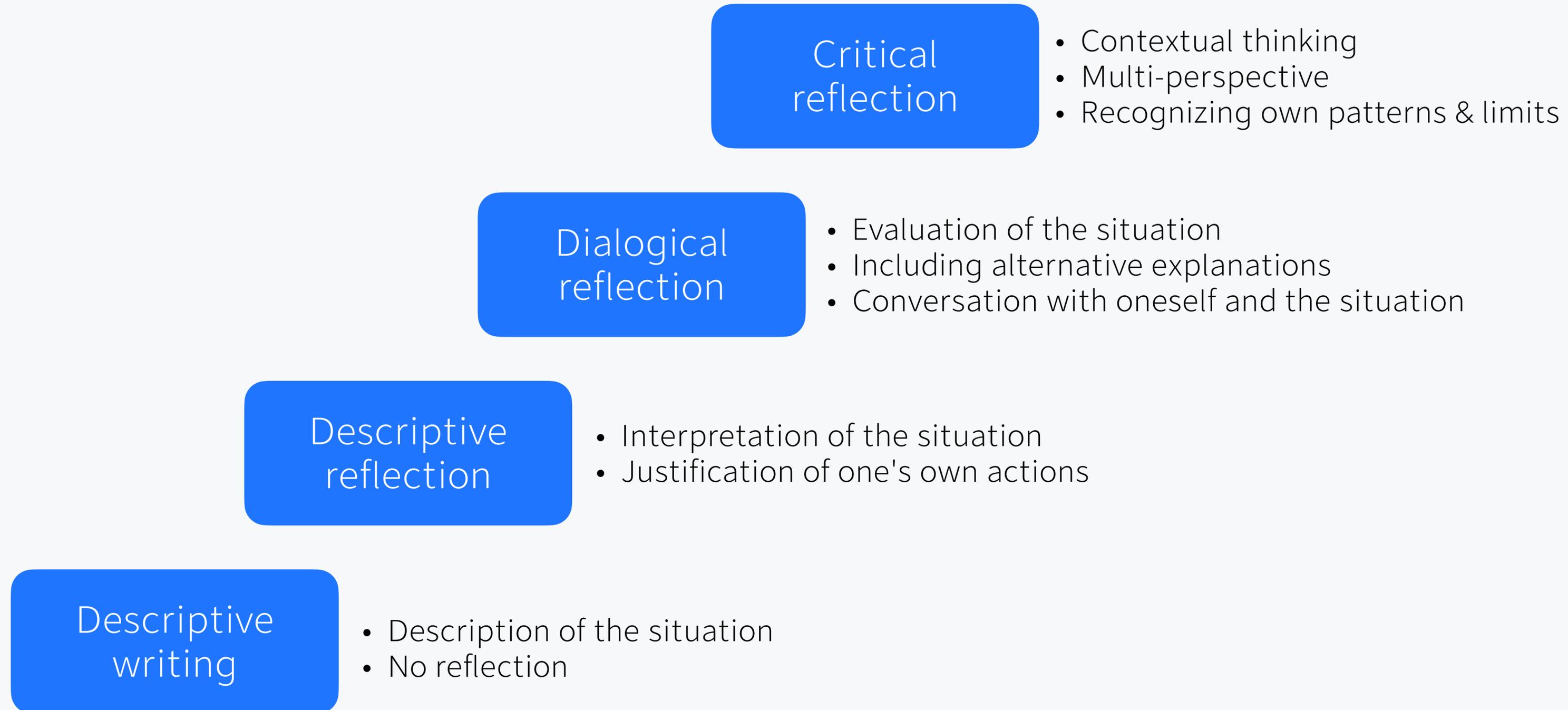
Leave ~1/4 right margin blank.

Write a private reflection on the following question

How might this course to contribute to your professional life?

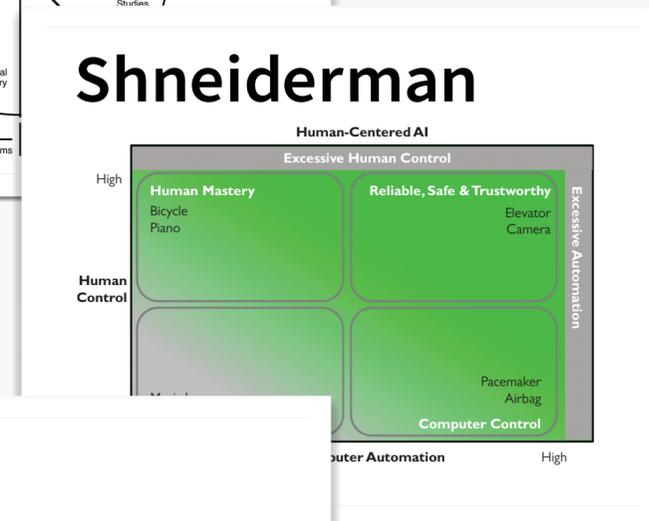
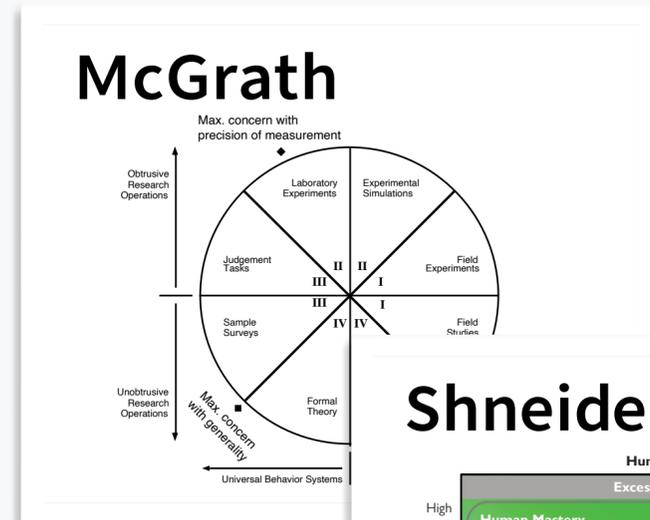
 10 minutes  work individually

Levels of reflective writing



Homework 1/3 — Reviewing the basics

 2 hours of work
Finish by March 4



Choose two topics from below

1. McGrath: Trade-off among research strategies (pp. 8–15)
2. Shneiderman: HCAI framework (Ch. 8)
3. Dhar: Paradigm shifts in AI (entire article)

Make notes to answer the following questions

- What concepts are described?
- What are their relationships?
- How might they connect/apply to HCAI?
- What are still unclear to you

Be prepared to explain these topics to your classmates in the next session

Homework 2/3 — Multi-pass reading

⌚ 3 hours of work
Finish by March 4

COVER STORY

HCI for AGI

👤 Meredith Ringel Morris, Google DeepMind

Insights

- The advent of increasingly powerful AI systems requires new research agendas for HCI and innovations in HCI/UX practice.
- We must update and innovate design and evaluation methods for AGI systems and their precursors.
- HCI research can support the creation of useful, usable AGI systems.

The past few years have seen rapid advances in frontier AI models, demonstrating increasing performance and generality. As progress continues toward artificial general intelligence (AGI), HCI scholarship and practice has a critical role to play in ensuring that AI technology is useful to and usable by people to accomplish tasks they value. HCI insights can help us maximize the benefit of AI technologies to individuals, communities, and society while allowing us to understand how to mitigate harms. In this article, I describe a research vision for the field of HCI in the AGI era, examining how HCI researchers can innovate in interaction

techniques, interface designs, physical form factors, design methods, evaluation methods, benchmarking approaches, and data collection techniques.

INTERACTION TECHNIQUES

Interfaces for advanced AI systems are in their infancy. While ChatGPT demonstrated that even simple user interfaces are powerful in making models accessible to a broad user base, prompt-based systems remain challenging for most users to harness effectively [1]. This has resulted in the emergence of new areas of expertise, such as prompt engineering, and the

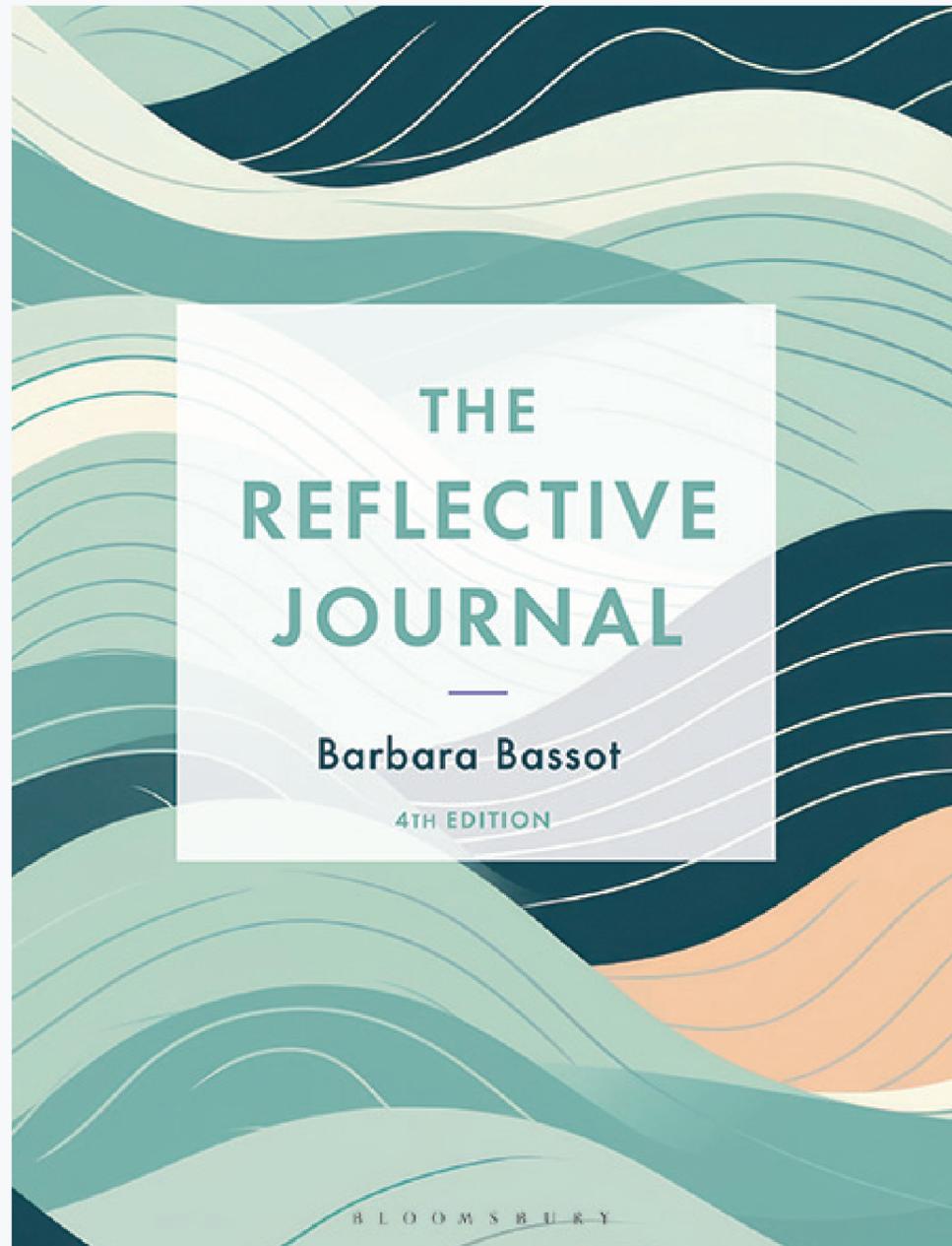
Use the article **HCI for AGI** (Morris, 2025)

1. Read the first pass from start to finish.
2. Write down key arguments from your memory in your own words.
3. For those arguments, go back to the article to check whether you get it right or are missing any details.
4. Connect this article with three concepts you previously learned in your study. Write down these connections.
5. Find out the background of the author. Write down 2–3 factors that could have influenced their opinion expressed in this article. Explain how these factors lead to each opinion.

Bring your notes to the next class

Homework 3/3 — Reflective writing

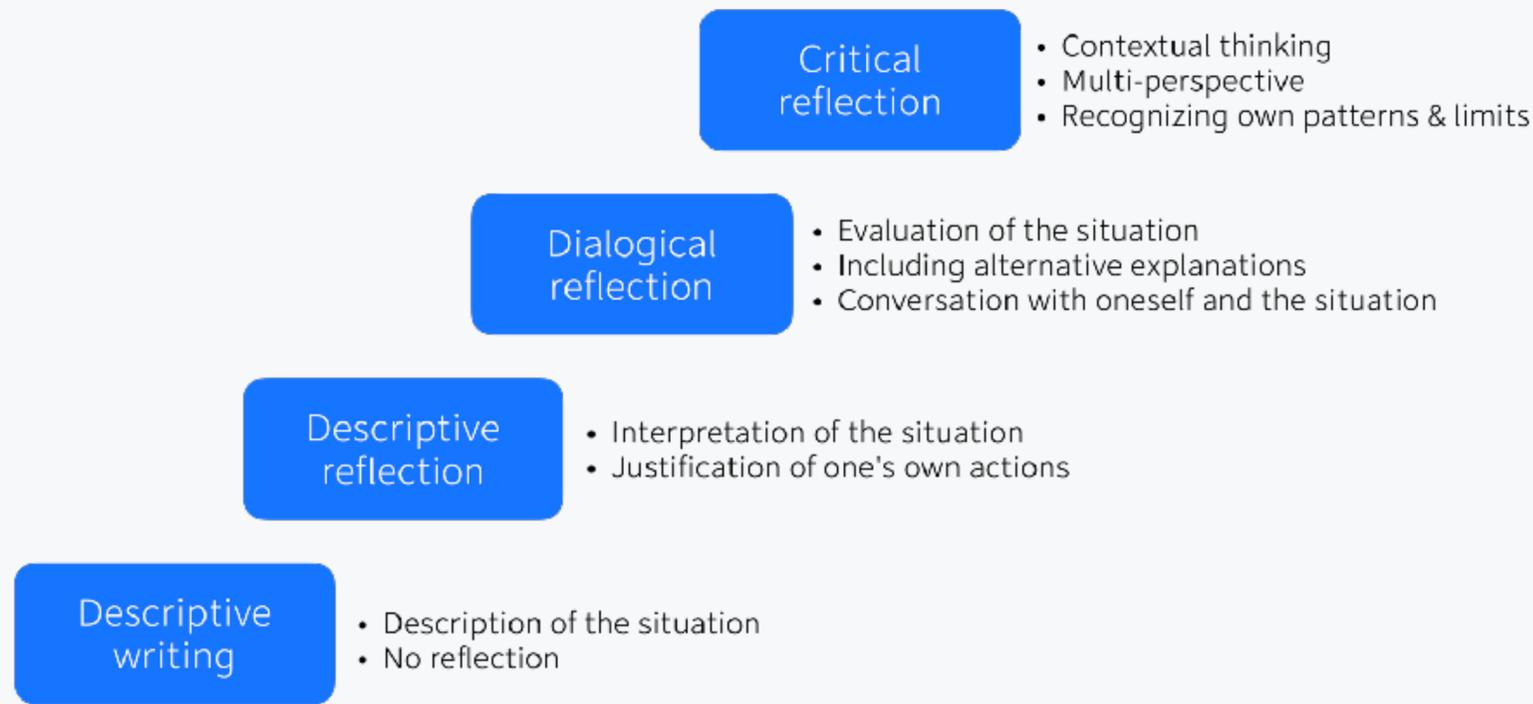
⌚ 3 hours of work
Finish by March 4



Use the excerpts of The Reflective Journal (Bassot, 2024)

1. Read the **Introduction**, **Theme 1.3**, and **Theme 1.5**
2. Write a private reflection based on this input
3. Read **Theme 2**
4. Re-read your private reflections so far
5. Write another private reflection based on this input

Keep all private reflection in one place. You will need them as input for your meta-reflection later.



! If you decide not to attend the seminar you should immediately cancel your booking. This instruction also applies if you are on the waiting list.

✍ Always have a pen with you in future sessions

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Supplemental slides

Student activation

Which semester of the master degree
are you currently in?

Which major are you in?

Line up in two rows

Take 1 minute to discuss the following question

What is AI?

Discuss the following question (2 minutes)

What are the roles of human in AI?

Discuss the following question (2 minutes)

What **should be** the roles of human in AI?