



SOEN 357

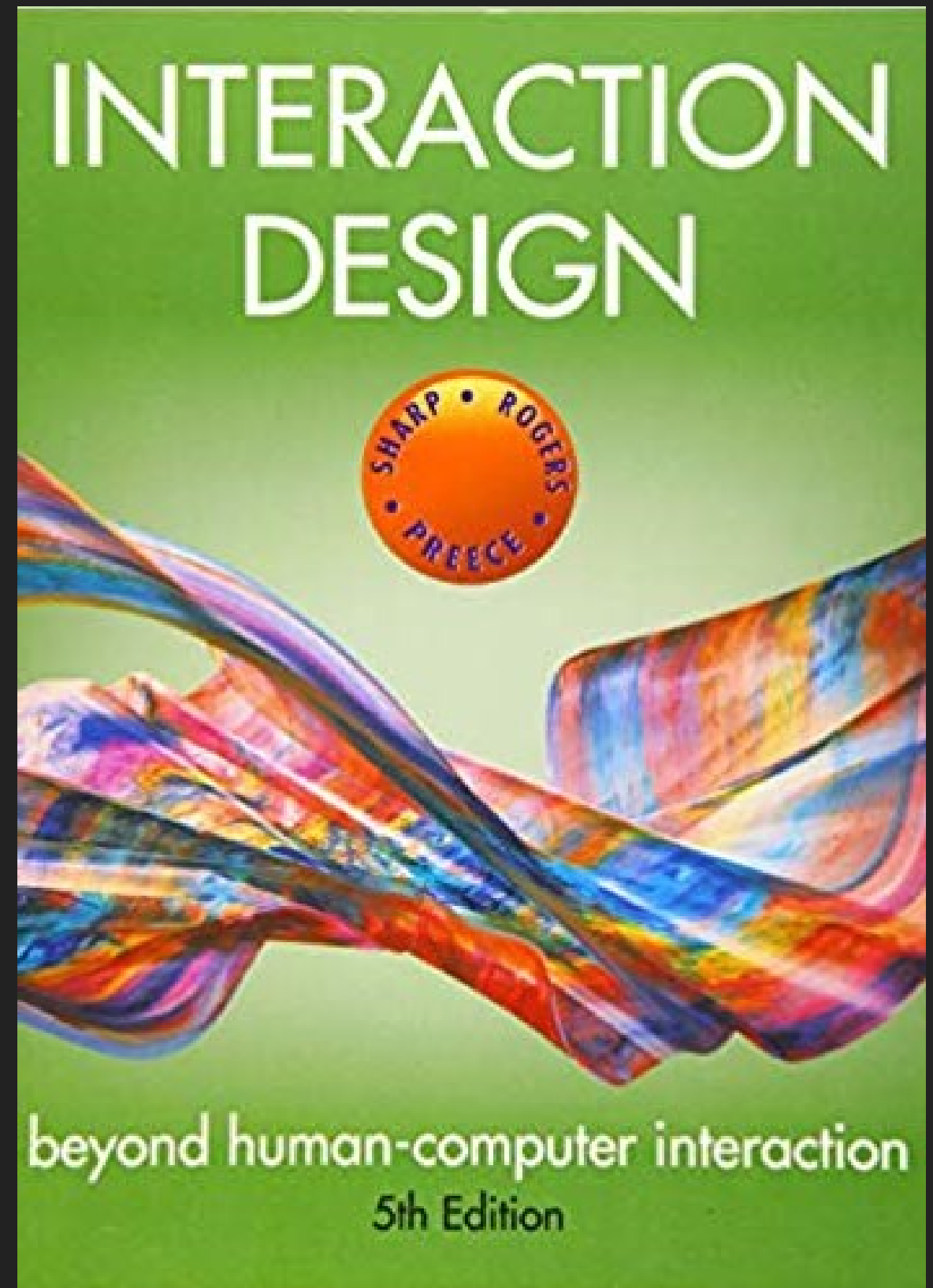
USER INTERACTION DESIGN
BEYOND HUMAN COMPUTER
INTERACTION

A LITTLE BIT ABOUT THE COURSE...

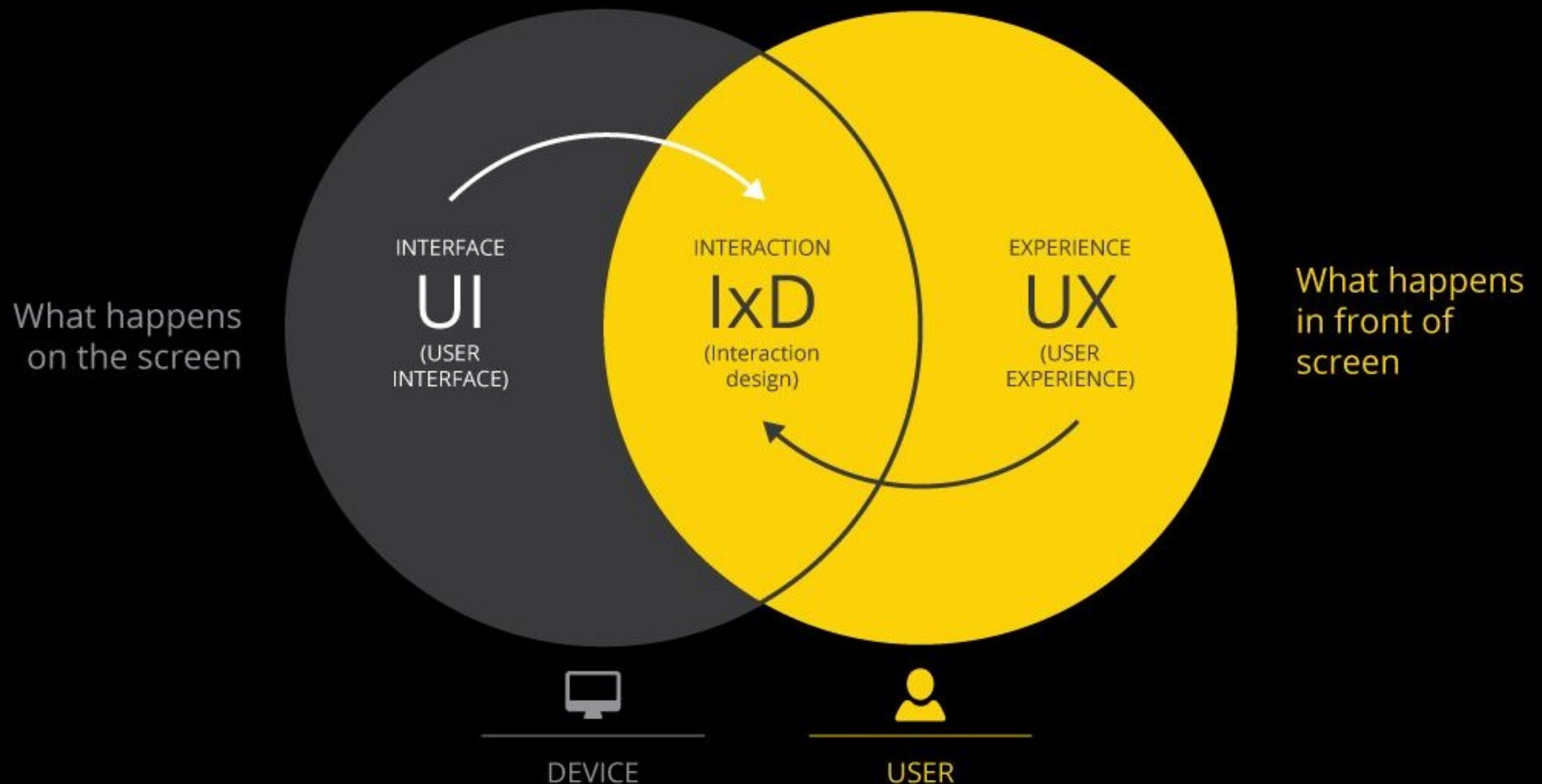


RECOMMENDED TEXT BOOK

- ▶ *But wait, it's called interaction not interface design?*



UI, IxD AND UX: WHAT'S THE DIFFERENCE?

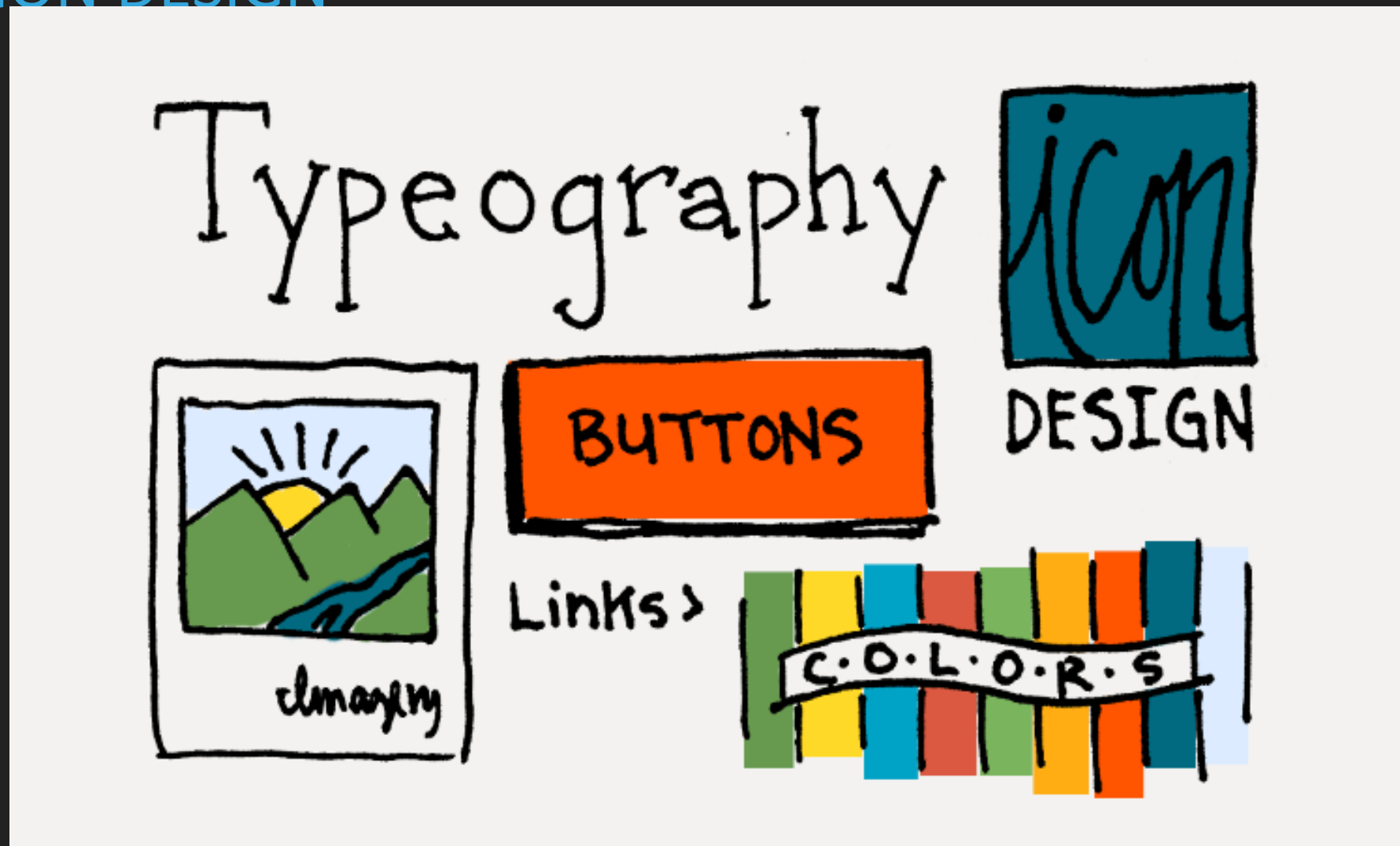


USER INTERFACE VS USER INTERACTION DESIGN

- ▶ Interaction design: how a product behaves.
- ▶ When a user speaks to a product, touches it, or looks at it, they are interacting with it.
- ▶ Transitions from one screen to another, animations, and how elements move in relation to another are all a part of what an IxD focuses on.

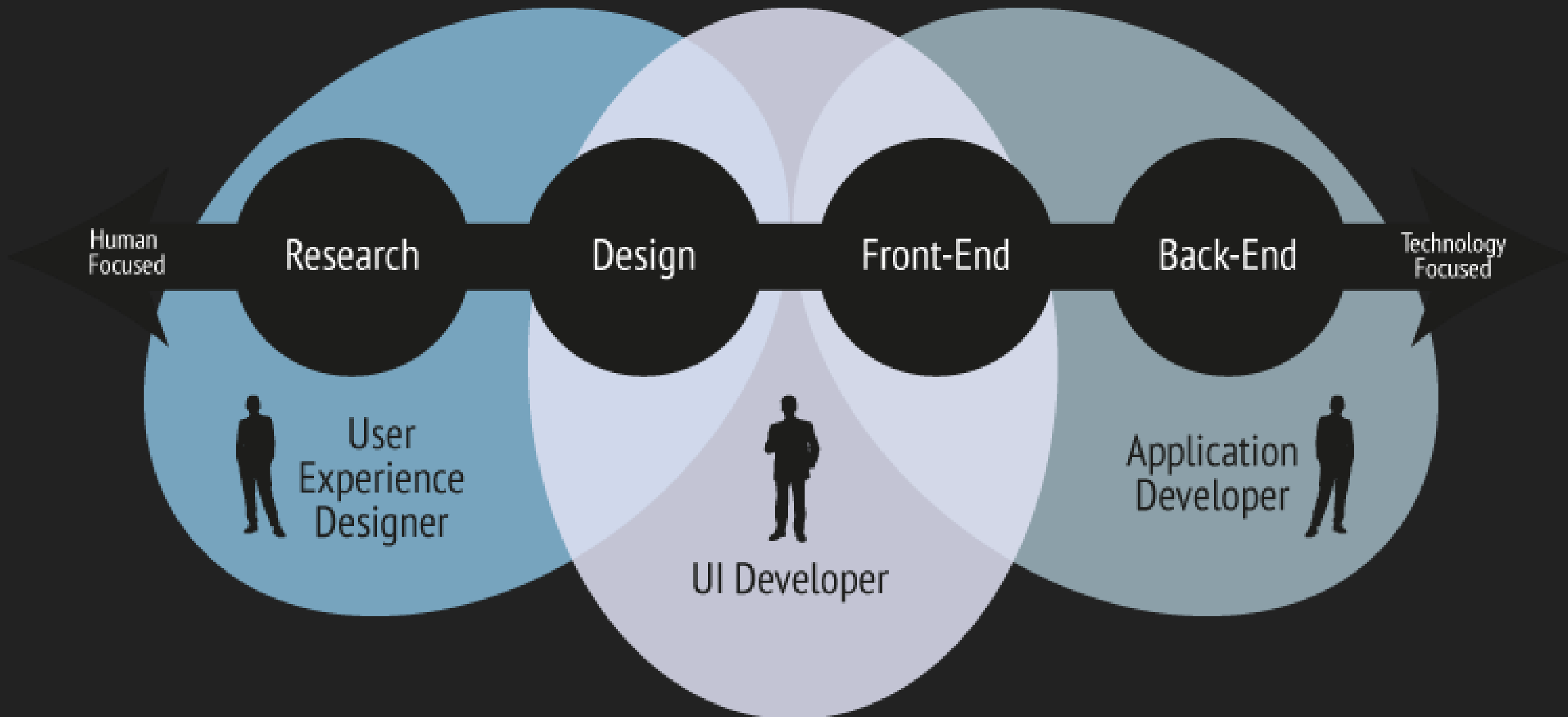


USER INTERFACE VS USER INTERACTION DESIGN



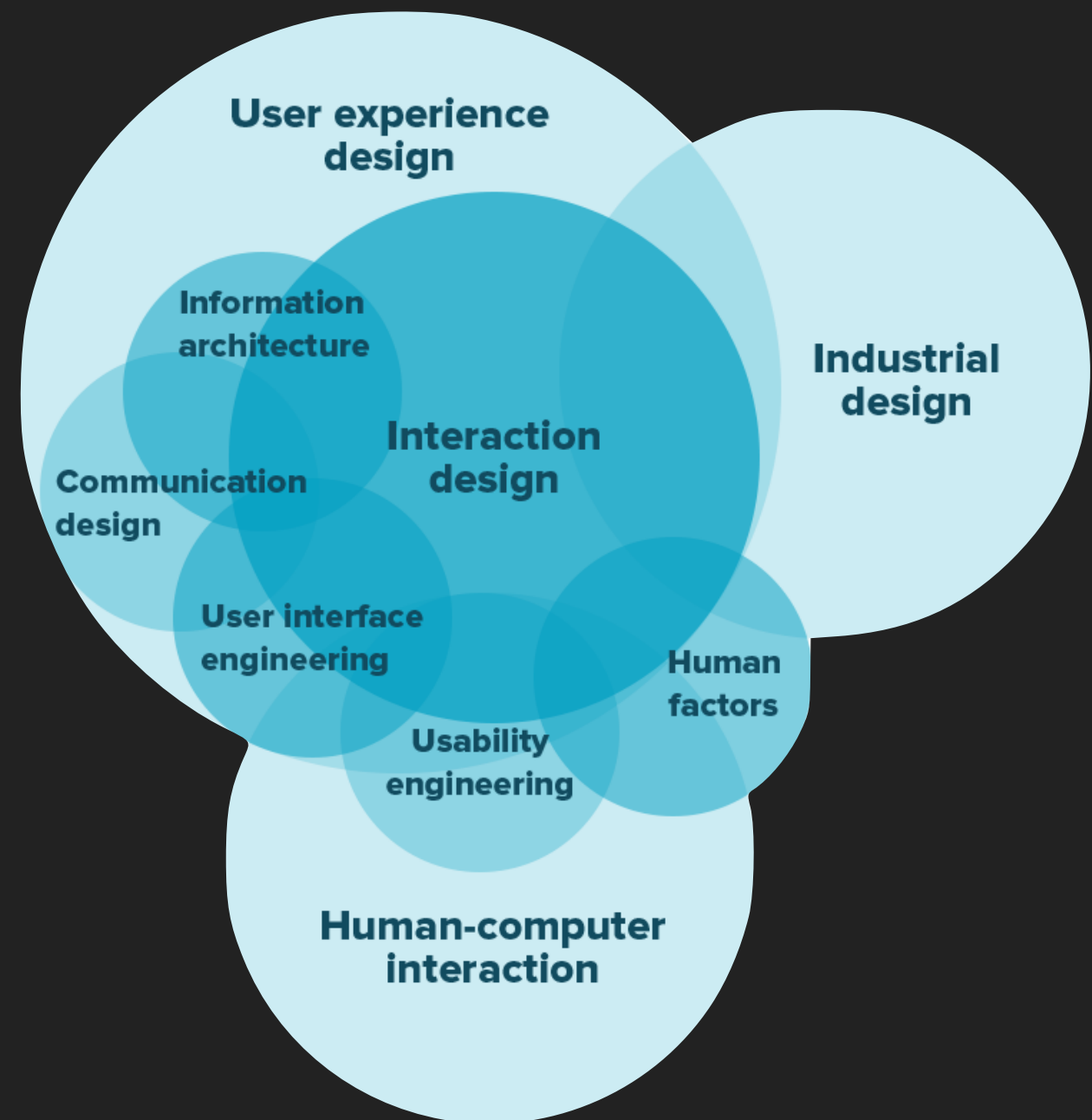
- ▶ User Interface Design: the way a product looks.
- ▶ This can be buttons, icons, colors, link and other call-to-action (CTA) styling, images, headings, typography (the font, size, spacing choices for all text), and how it all comes together.

USER INTERFACE VS USER INTERACTION DESIGN



PURPOSE & LEARNING OUTCOMES

- ▶ Understand what are HCI, UX, IxD, UI, are and learn about each of them.
- ▶ Learn about HCI frameworks, models and evaluation paradigms.
- ▶ Learn the importance of user-centred design and methods of user information gathering.
- ▶ Understand how the sensory, cognitive and physical capabilities of users inform design.
- ▶ Learn about the process of interaction design.
- ▶ Analyse and critique designs.
- ▶ Select, adapt and apply suitable design approaches and techniques towards the design of an interactive product.



GRADING SCHEME

- ▶ 15% Assignment / Mini Project
- ▶ 10% Tutorials (“presence” and participation)
- ▶ 10% Midterm
- ▶ 45% Research project
- ▶ 20% Final

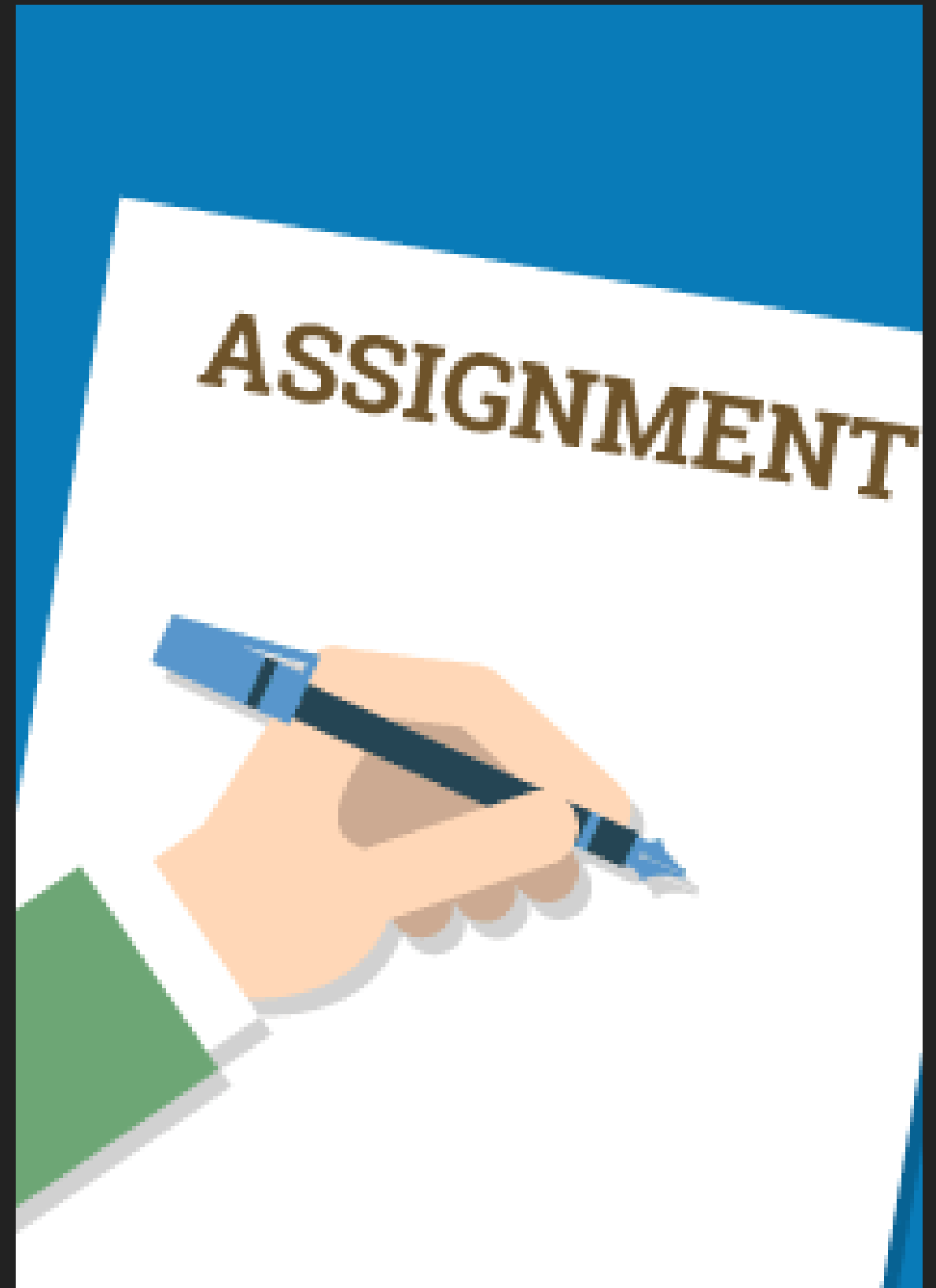
TUTORIALS

- ▶ This is where you'll do hands on work and exercises!
- ▶ Important you do these (10%)



ASSIGNMENT / MINI PROJECT

- ▶ Case Study: UX/UI design of a data marketplace.
- ▶ Teams of 2.
- ▶ More coming soon!



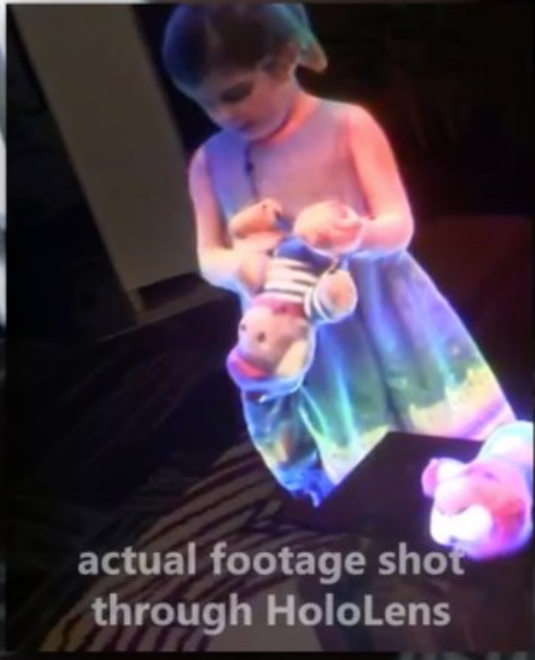
PROJECT

- ▶ Hardware (Kinect, Google Cardboard, Oculus Rift, Eye tracking...)
- ▶ Should raise an important research question, and plan and execute a methodology for answering that question.
- ▶ Should be done in teams of 2-4.
- ▶ Deliverables: Conference style paper, teaser video, code.

EXAMPLE PROJECTS

- ▶ Braille input keyboard for the blind on smart phone
- ▶ Musical training system using augmented reality
- ▶ Augmented reality app for MS needle injection
- ▶ Eye tracking/facial tracking for determining emotions when reading webpages
- ▶ Gesture based interface for presentation interactions
- ▶ EEG for looking at cognitive load of a particular technology
- ▶ ... and many more









S:
EL PHELPS:

rs.
im

SAMSUNG SMART TV

Remote-control haters can log on to the \$3,500 web-enabled TV by showing their face, and change channels using their voice.

88% Memory Loaded
2011-07-10 10:00:00 AM

GOOFY

Power-Off
Control



File: 10004
Format: wav

