

Teaching assistants

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Questions ?



Source: Indiana Jones & The last Crusade

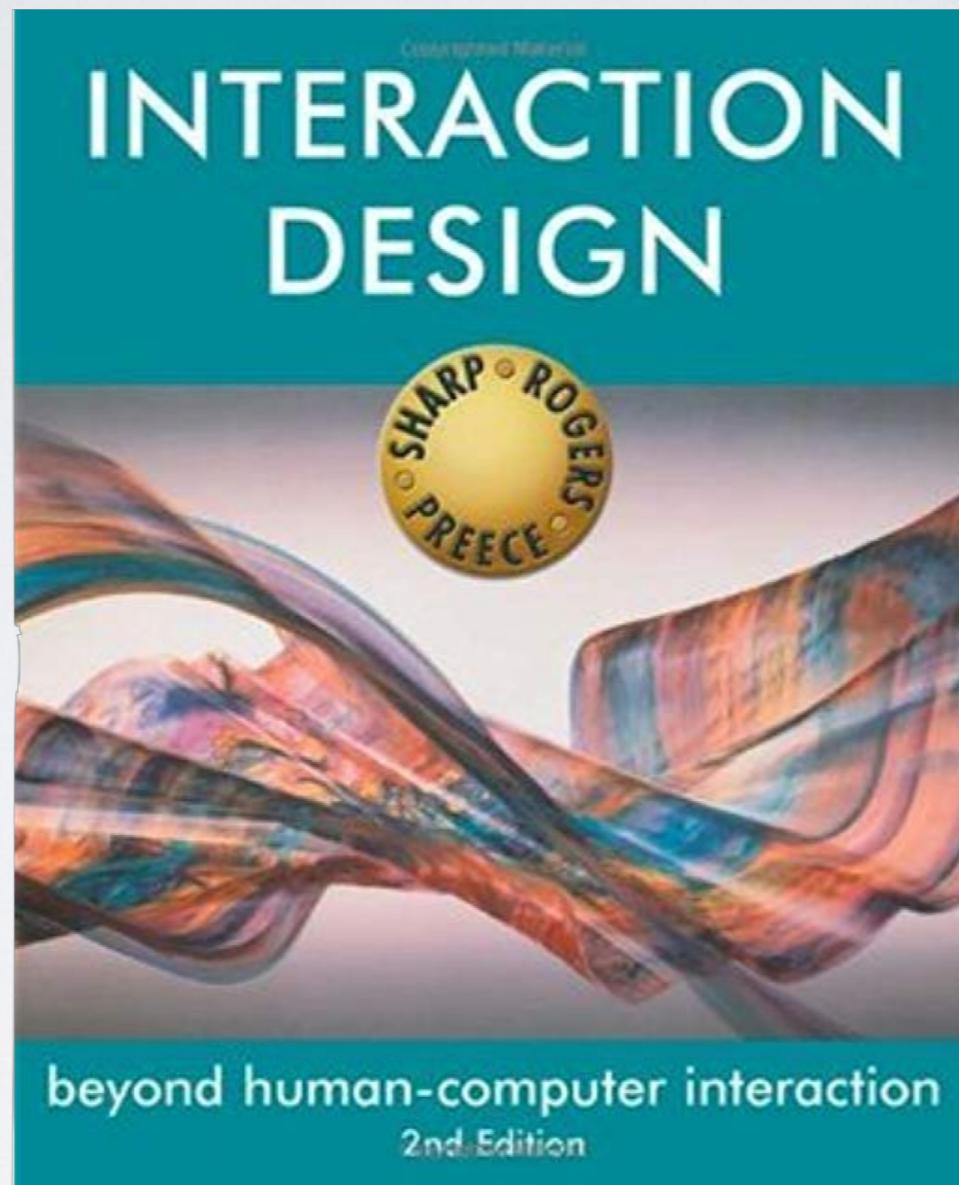
Human-Computer Interaction & User-Centered Design

- to introduce students to the difference between science, engineering and design and how all are relevant to computer science (& software engineering!)
- to develop basic skills in experimental methods as they apply to computing
- to introduce the notion of software engineering, specifically through considering user-centred design processes.

Where to find course material?

Github:
(course slides & exercises):

<https://github.com/h2lk/UIDE>



Good book to read:
*Interaction design by Preece,
Rogers and Sharp*

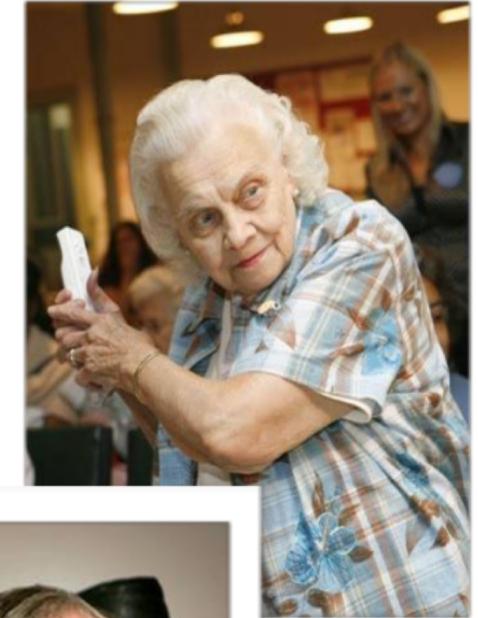
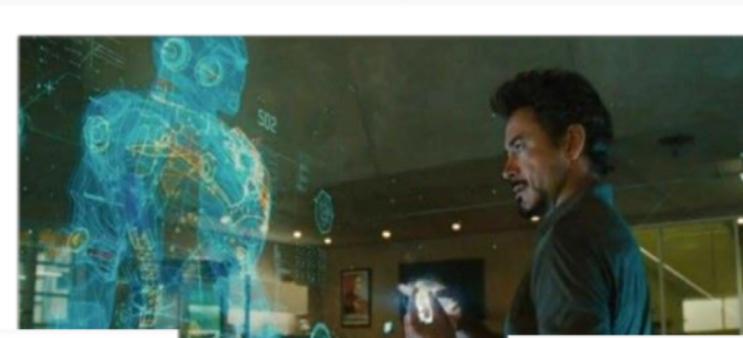
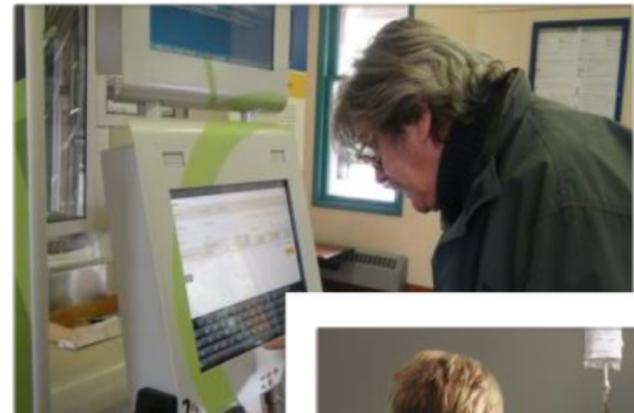
HUMAN



COMPUTER



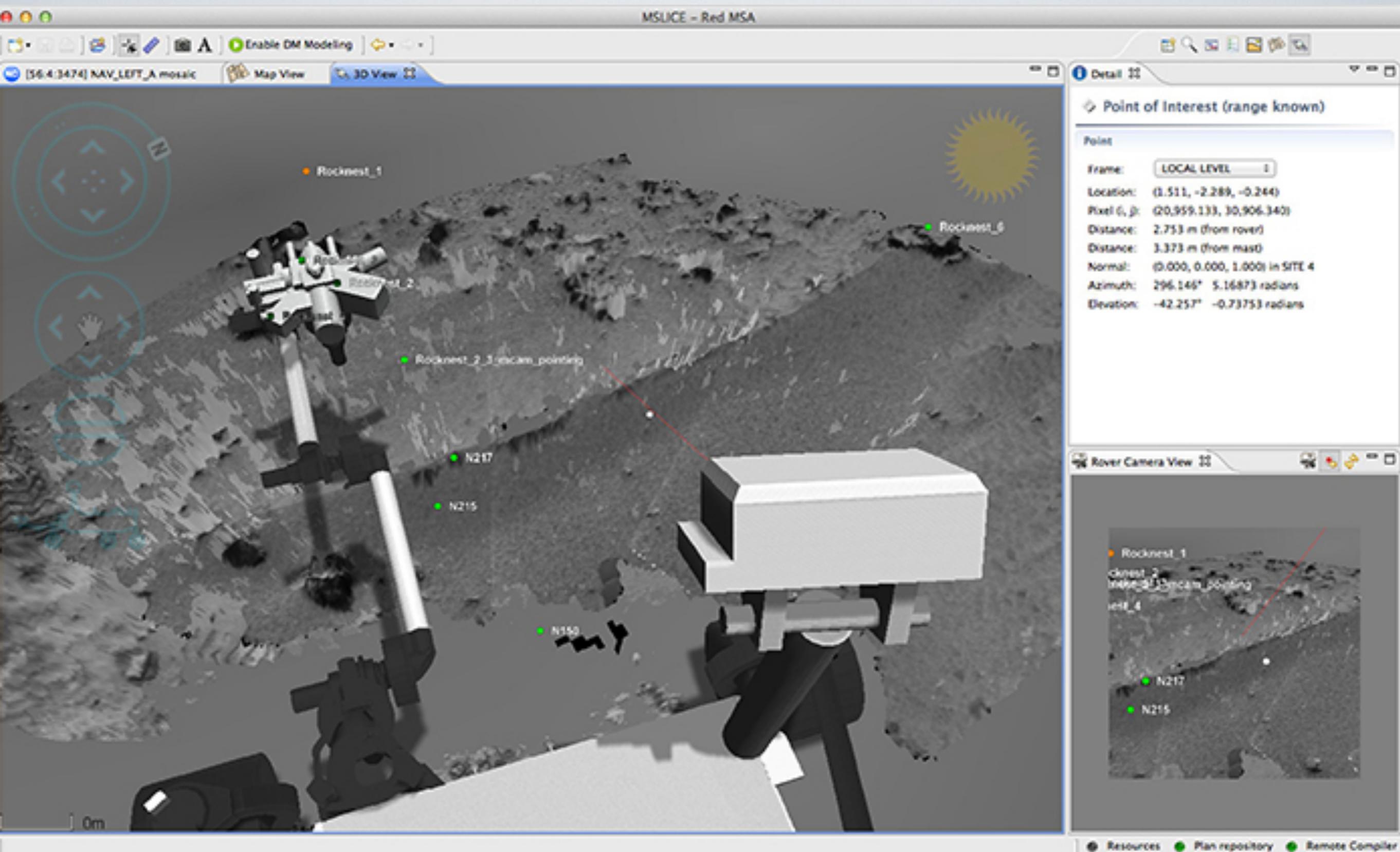
INTERACTION







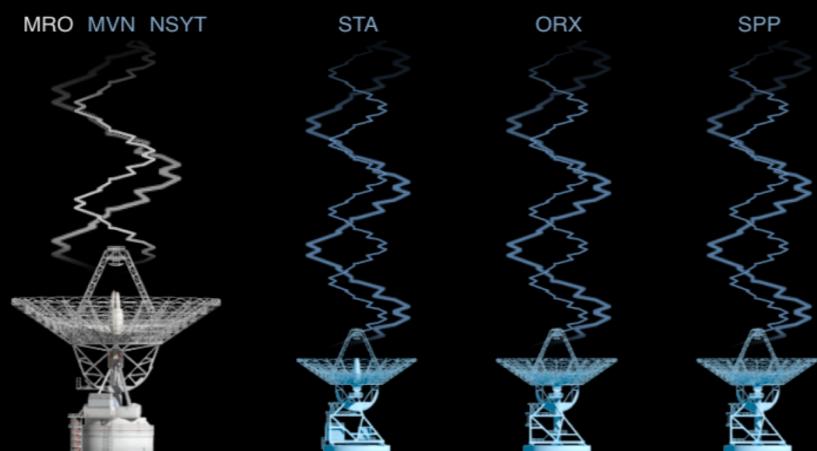




<https://hi.jpl.nasa.gov/>



MADRID

DEC 2
3:10 PM

63 65 54 55

[VIEW ANTENNA](#)[VIEW SPACECRAFT](#)[VIEW WORLD MAP](#)

GOLDSTONE

DEC 2
6:10 AM

14 24 25 26

[MRO](#) [MVN](#) [NSYT](#)**SPACECRAFT****NAME**

Mars Reconnaissance Orbiter

RANGE

152.41 million km

ROUND-TRIP LIGHT TIME

16.95 minutes

ANTENNA**NAME**

DSS 63

AZIMUTH

114.97 deg

ELEVATION

14.59 deg

WIND SPEED

0.00 ft/sec

[+ more detail](#)

credits contact us

CANBERRA

DEC 3
1:10 AM

43 34 35 36

Human-computer interaction (HCI)

“...concerned with the design, evaluation, and implementation of interactive computing systems for human use and with the study of major phenomena surrounding them.”

HCI concerns

The whole platform !

- both software and hardware and anything else that affects the user

How we can make people using these computers?

- more effective
- more efficient
- happier
- user experience (UX)

Practical I

Your stories !

Think about a time where your failure to use the interface of a particular technology properly (trains, mobiles, alarm clocks, anything) resulted in a bad experience.

Tell your story to the person
who ~~is~~ sat next to you.

Software engineering

- Like civil engineering
- Principled move from problem to solution
- Methodologies
- Allows for planning, costing, delivery