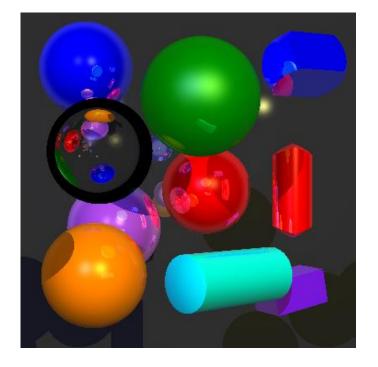
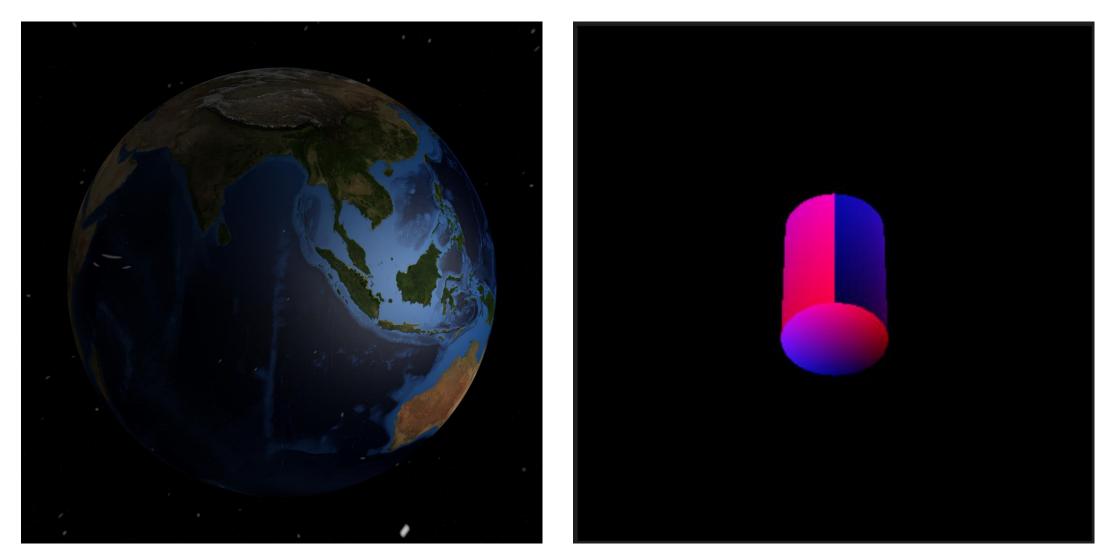
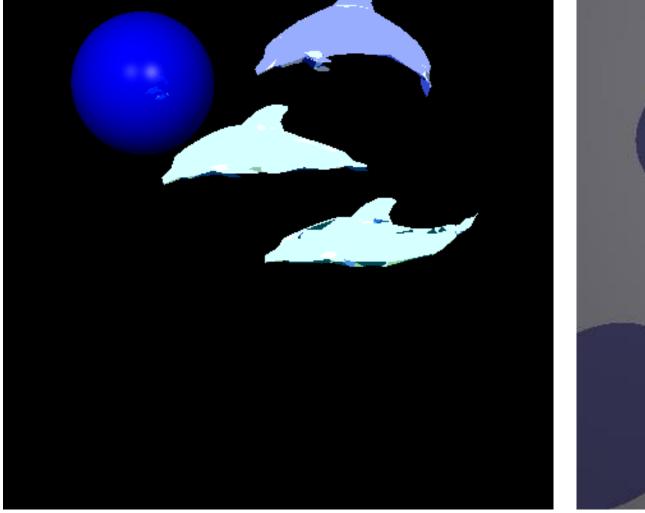
#### Lab Sessions **Photorealistic Rendering** (Advanced Computer **Graphics**)

Tobias Isenberg (informatics mathematics



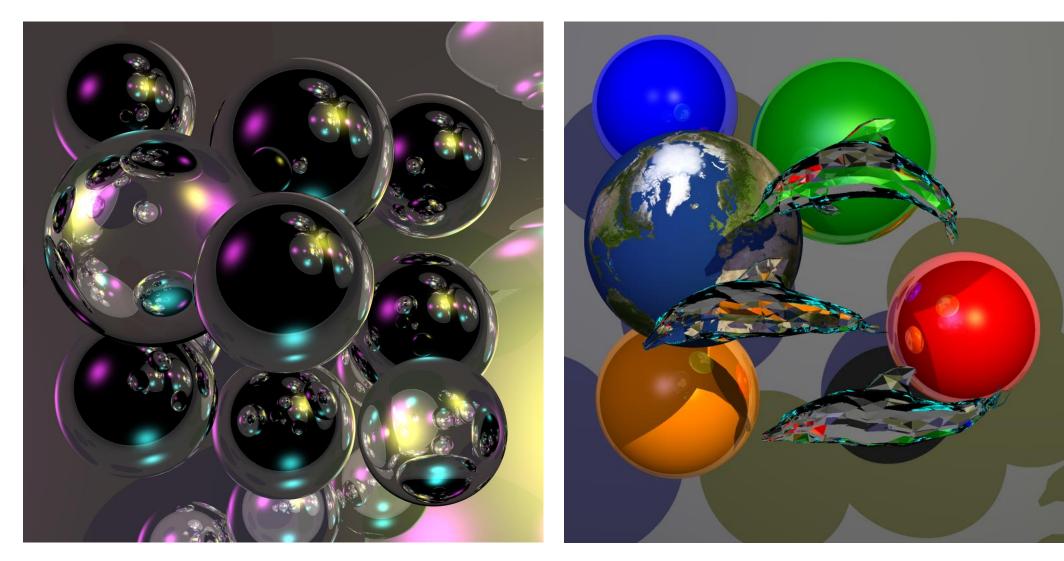








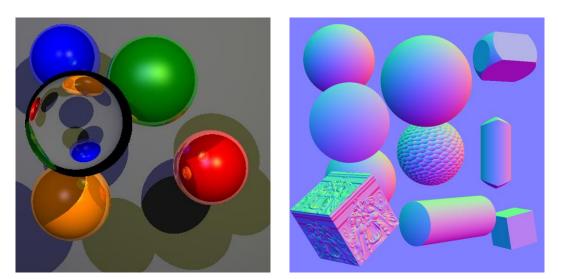


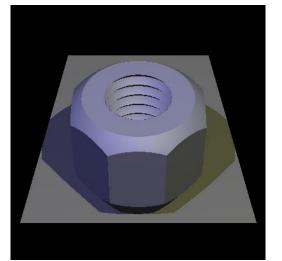


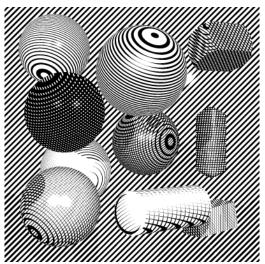
# **Final assignments**

POLYTECH° PARIS-SUD

- three tasks (10 points each):
  - implement refraction
  - implement bump-mapping
  - change your implementation to process in parallel to speed-up the raytracing computation
  - deadline: day before exam/ presentation
- bonus ideas:
  - still possible

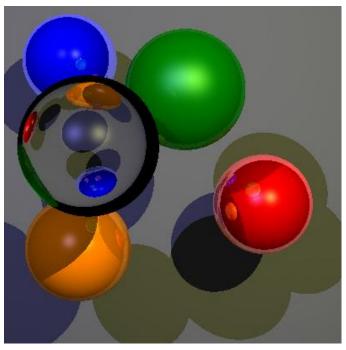






## What did we learn in this class?

- cool computer graphics techniques
- efficiency and effectiveness
- computational complexity (not always O(...))
- parallel computation (GPU & CPU)
- numerics in computer science
- visual debugging and error analysis
- compilers (implicit casting, rounding, differences)
- human perception (color, shadows, bump mapping)



## What will the exam be about?

- what we talked about in class:
  - principles, algorithms, techniques, approaches
  - only material from class, nothing else
- use slides on the website to study
- multiple-choice exam
  - 2h in total, approx. 20-30 questions
  - correct/incorrect statements about the different approaches

## **Multiple-choice exam**

- exam not time-critical
- no negative points
- no materials other than pen and brain
- final grade: 50% exam, 50% tutorial

• Number of pages: 8 • Materials allowed: Pencils, erasers Please write your answers directly on the exam paper.

2

3

Introduction to Human-Computer Interaction

Time period: 8:00 - 11:00
Duration of the exam: 180 min

| Student number: |
|-----------------|
| Given name:     |
| Family name:    |
|                 |

- The questions with the symbol  $\clubsuit$  can have none, one, or more than one possible correct answers. All other questions have exactly one correct answer.
- Please answer the questions like this: ⊠; use a **pencil** (hardness HB), and make clear marks. To correct, clearly erase the wrong mark and put a new one (if needed). If you cannot erase because you did not bring a pencil, make the incorrect box completely black.
- All multiple-choice questions are worth one point. For it to be counted as answered correctly, all correct answers and no incorrect answer have to be selected.
- $\bullet\,$  Do not fold the answer sheet (s), do not write on the back.

9

9

Question 1 Student did NOT bring a pencil. Do NOT fill out yourself.

Student brought a pencil.

9

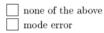
9

Student did not bring a pencil.

#### Multiple-Choice Questions:

**Question 2** Driving to the supermarket but ending up at work is an example of which type of error

description error a mistake capture error



+1/1/60+

Exam on 23/03/2016

## **Final meetings**

- backup teaching slot: Feb. 14 (next week)
  - $\rightarrow$  presentations of final tasks (if completed) and your bonus
  - nothing fancy, just show off the final tasks and any extras you did
  - few slides with images, discuss what's cool, what went wrong, ...
  - 5–10 minutes per team (tell me if you want more)
  - feedback for class also ok
  - questions if there are any
- exam: on February 21
- final deadline for assignments (final tasks, bonuses): Feb. 26
- please also send your best 1−2 result images if not done yet