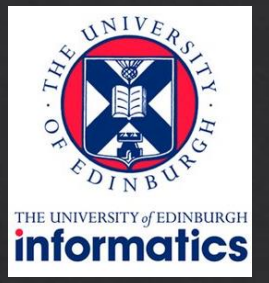


Computer Graphics

Lecture 1: Introduction and Course Organisation

Kartic Subr

Me: A brief history

Univ. of Edinburgh — Heriot Watt Univ. — Univ. College London — INRIA-Grenoble — Univ. of California Irvine — Bangalore Univ.

2016 ← 2001

Disney Research

NVIDIA

R&H

hp

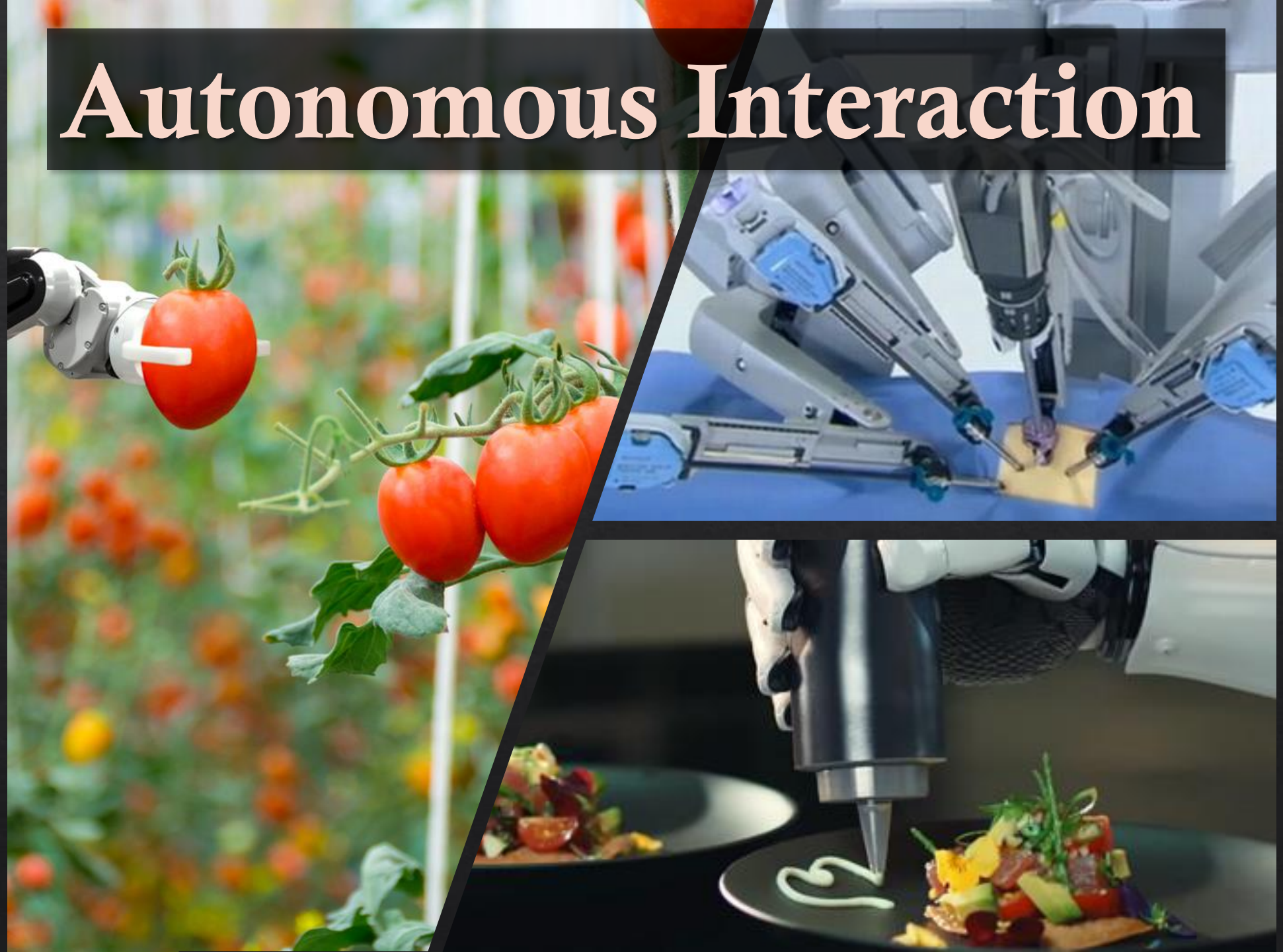
Special Effects

Important Looking Pirates VFX

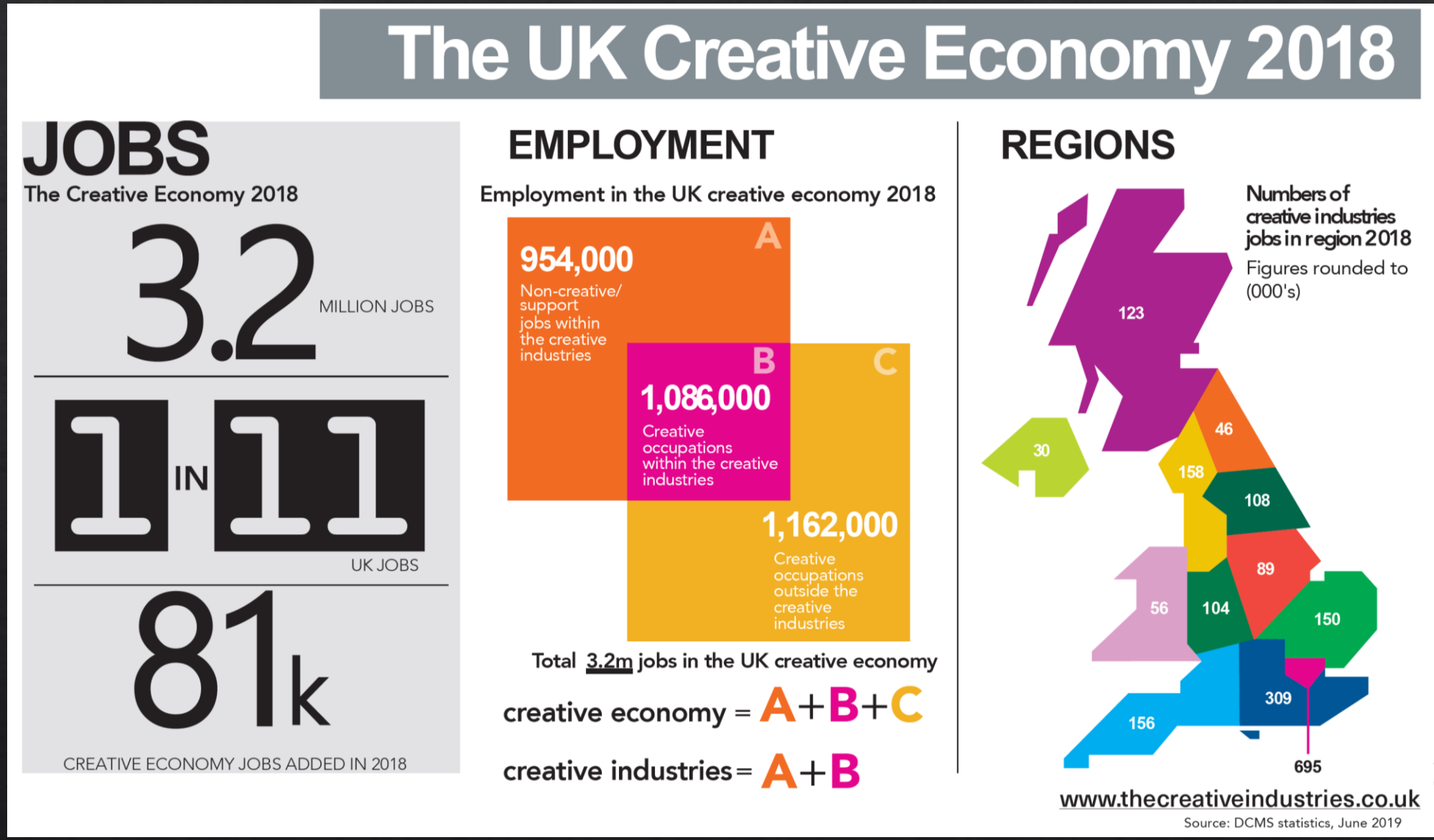
Video Games (real-time)

Google Stadia tech demo 2019

Autonomous Interaction



CG is central to the creative industries



It's all happening in London now!

https://onelightvfx.com/studio-list/complete-list-of-2d-3d-animation-post-production-and-vfx-studios-in-england/

OSCAR NOMINEES, 2019-20

VISUAL EFFECTS

Avengers: Infinity War

Dan DeLeeuw, Kelly Port,...

VIEW TRAILER | MORE INFO

Christopher Robin

Christopher Lawrence, Michael...

VIEW TRAILER | MORE INFO

First Man

Paul Lambert, Ian Hunter,...

VIEW TRAILER | MORE INFO

Ready Player One

Roger Guyett, Grady Cofer,...

VIEW TRAILER | MORE INFO

Solo: A Star Wars Story

Rob Bredow, Patrick Tubach,...

VIEW TRAILER | MORE INFO

Simulating photorealistic pictures?

photograph

Colourbox.com

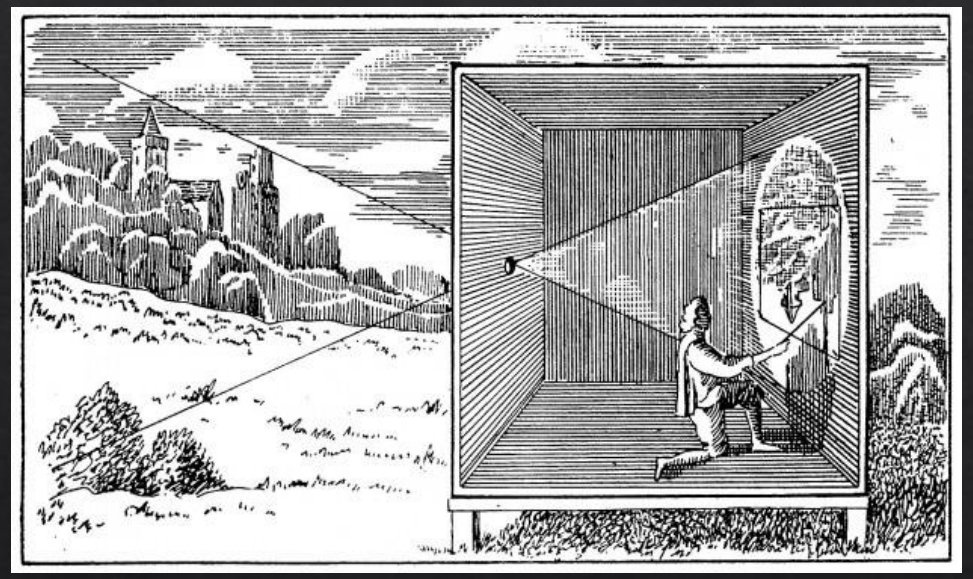
manually painted

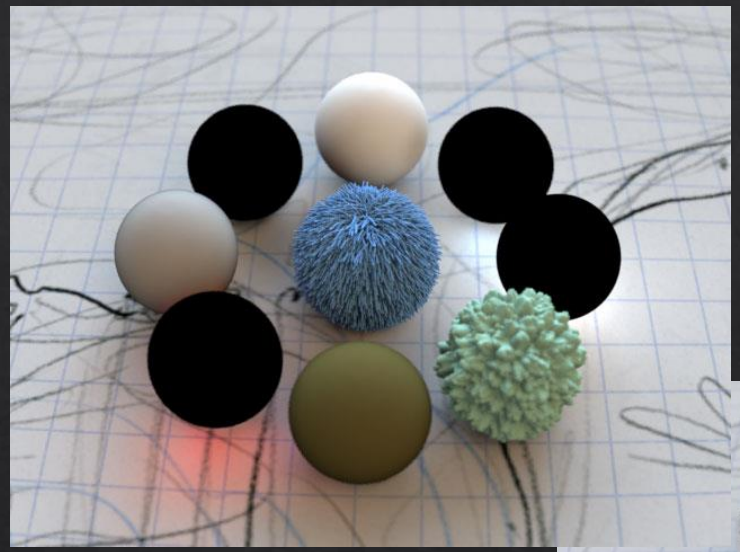
Pedro Campos

computer generated

Physically based simulation, at its core!

Projective geometry





Energy
(light transport)

Advertising

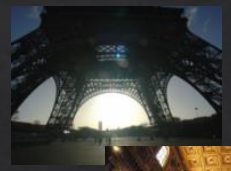
Engineering

Medicine

Defense

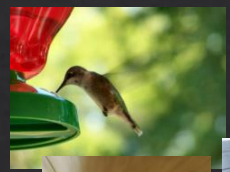
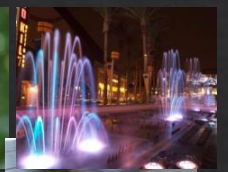
Entertainment

Simulate the physics of light



lenses

defocus

exposure time

materials

light, media

About the course …

http://www.inf.ed.ac.uk/teaching/courses/cg/index2019.html

Exam time!

https://prezi.com/view/fgJVmBlMT9RVpE7JzKZz/