

Sr Lecturer SOE Dan Garcia

The Beauty and Joy of Computing

Lecture #3: Creativity & **Abstraction**



LEARN LANGUAGE FREE!

Luis von Ahn's recent project is Duolingo, which is simultaneously allowing its users to learn a second language free, while also providing a cost-effective way to get documents translated on the web.

PREVENTING ADDICTION!

Researchers in the UK said that some gamers play up to 90 hrs a session, developing a "pathological" addiction. They say game makers need to do more, to get "sensible gaming"

www.duolingo.com www.bbc.co.uk/news/uk-wales-south-east-wales-23576035



- "Creativity and computing are prominent forces in innovation; the innovations enabled by computing have had and will continue to have far-reaching impact.
- At the same time, computing facilitates exploration and the creation of knowledge.
- This course will emphasize these creative aspects of computing.



<u>@0</u>90





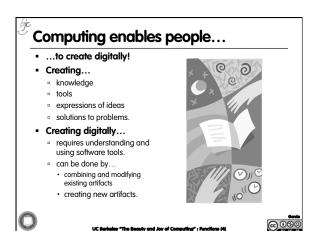
- ...to translate intention into computational artifacts.
- A computational artifact is created by human conception using software tools.
- Examples of computational artifacts include
 - digital music, videos, images
 - documents
 - combinations of these. E.g.,
 - infographics
 - presentations
 - web pages





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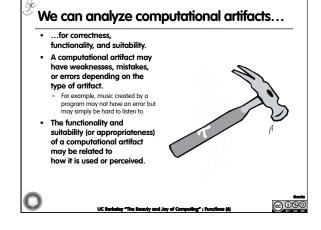


Collaboration is an essential part...

- ...of creating computational artifacts.
- Collaboration facilitates multiple perspectives in developing computational artifacts.
- A computational artifact can reflect collaborative intent.









- Creating digital effects, images, and animations has impacted and transformed the movie industry.
- Computing enables creative exploration of real and synthetic phenomena.



UC Berkeley "The Beauty and Joy of Computing" : Functions (7)



