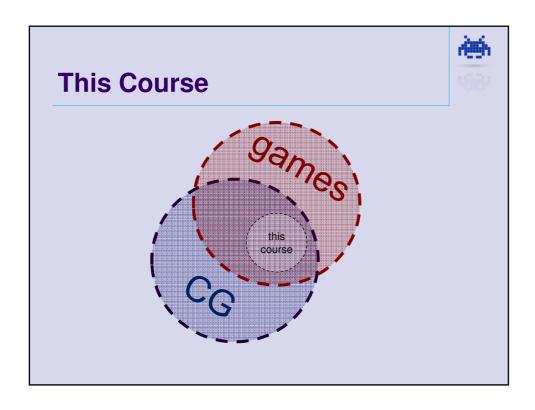


# **General info**



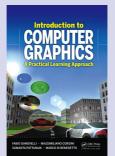
- Marco Tarini
  - Google for "marco tarini", 1st link
  - Follow "teaching" (bottom)
    - Follow "Master Computer game dev 2015": pagina del corso: materiale, lucidi, links.
  - Follow "contact" (bottom)
    - Mail, tel, etc...





# Possibili testi di rifemento (2/3)





## Introduction to Computer Graphics

a practical Learning Approach

Ganovelli, Corsini, Pattanaik, Di Benedetto Tutto sulla CG, cenni di CV. Javascrpit + WebGL (+ GLSL). Pratico. Accento sui games!

# Possibili testi di rifemento (3/3)





### Game Coding Complete (4ta ed)

Mike McShaffry, David Graham

Visione pratica (attenzione a osolescenza) Accento su coding, software eng (es memory managment).



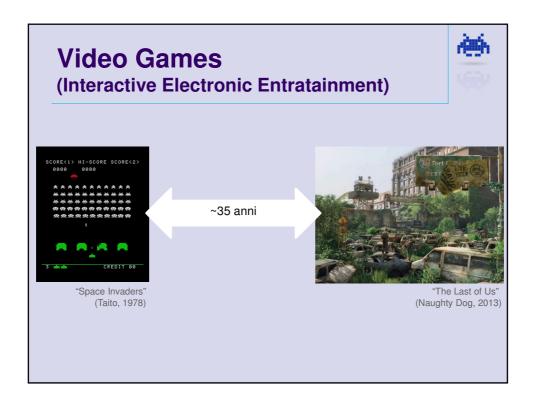
Introduction to

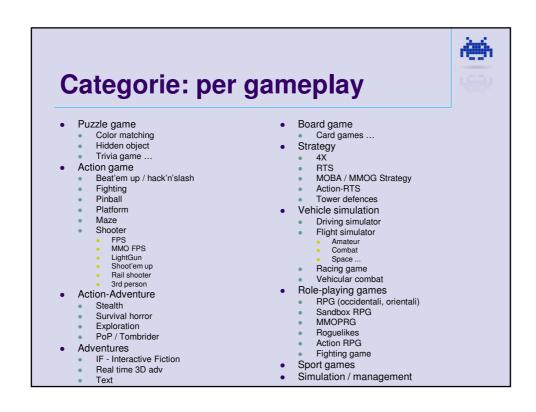
### **3D** Game Programming

with DirectX 11

Frank Luna

Rendering / GPU (in pratica, copre il corso di CG)







# Categorie: per piattaforma



- Arcade
- PC stand-alones
  - Aka "desktop app"
  - ("computer game" propriamente detto)
  - Win, Mac, Linux...
- Console
  - Wii, PS, XBox ...
- Browser
  - html5, webGL, unity, flash...
- Mobile devices
  - · Android, iDevices, PSP ...





#### Categorie: per sviluppatore **Independent games** Mainstream games No/small publisher Big publisher Low starting \$ • Big \$ per project • (spesso, mega-\$'s) Team piccoli High quality: imperativa + libertà +innovazione · Dev-teams grandi (spesso) Strade alternative per: Funding per es: Crowd funding come indiegogo.com, kickstarters.com, ... Distributing • es: steam, popcap, apple store...



# Categorie: per tecnologie video usate



#### 2D games

- Sprites + Tilemap / Tilesets
- Tecnologie:
  - «Blitting»
  - Tilemap rendering
    - e 2D scrolling
  - Funzionalità sprite
    - sprite collision detection («pixel perfect»)
    - 2D transforms
    - Transparency, z-ordering...
  - 2D physical engines (a volte)

#### 3D games

- Modelli + Scene 3D
- · Tecnologie:
  - 3D Modelling
    - Scenegraph, models
  - 3D Real time rendering
    - trasformazione 3D
    - Illuminazione,
  - 3D animations
    - Cinematica, motion capture, model animations...
  - 3D phyisical simulations
  - (3D sound localization)

# Categorie: per tecnologie video usate 2D games 3D games

- Sprites + Tilemap
- Tecnologie:











. . .

- Modelli + Scene 3D
- Tecnologie:











Urho3D



