the gamedesigninitiative at cornell university

#### Lecture 28

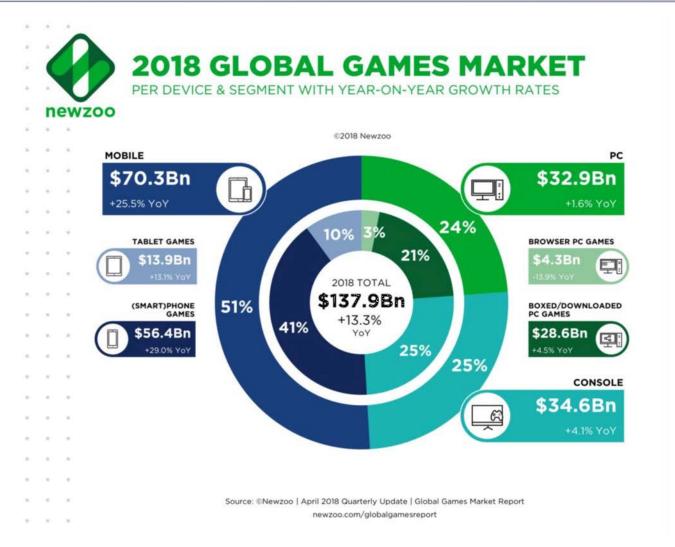
# The Industry

# A Changing Industry

- The game industry is rapidly changing
  - AAA studios are contracting/cutting back
  - MOBA and mobile studios have plateaued
  - Live services are failing more often
- It is harder for Indie Games to break out
  - Indie sales peaked around 2014 or so
  - Now supply has far out-stripped demand
- Focus: Understanding the trade-offs here



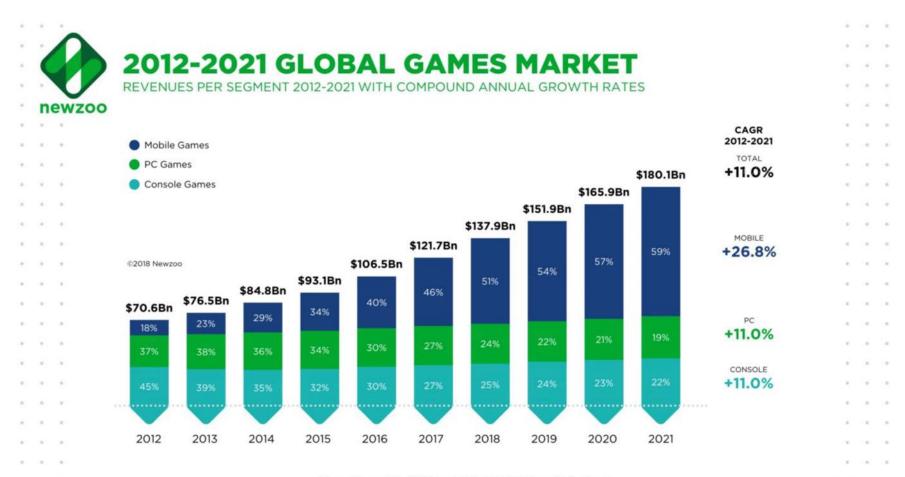
#### Market by Platform





Industry

#### Market by Platform

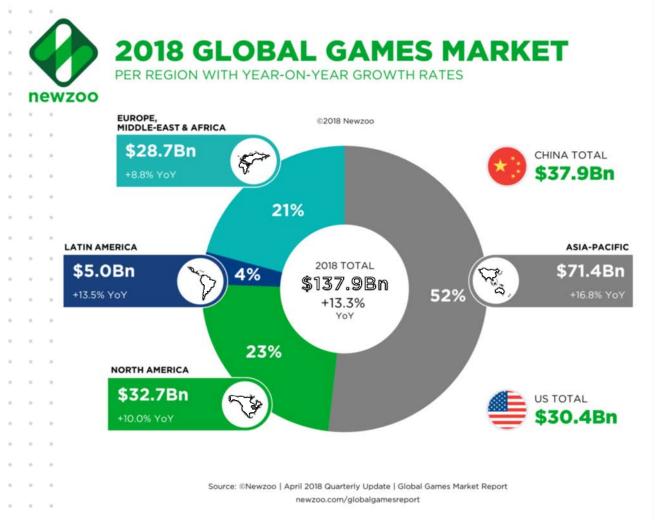


Source: ©Newzoo | April 2018 Quarterly Update | Global Games Market Report newzoo.com/globalgamesreport

newzoo



#### Market by Region





Industry

### **Classic Industry Roles**

- **Developers** make the games
  - Core studio of salaried people
  - Hire freelancers as deadlines approach
- **Publishers** distribute the games
  - Get the games into the retail chain
  - Advertise the game to customers
  - Give developers advances to pay salaries
- **Console Developers** make game platforms
  - Publishers license to publish games for platform
  - In AAA space, limits profit on a \$60 game to \$30



## **Talk Outline**

#### • Types of Developers

- How they publish; how they are funded
- Limited to North America

#### Breaking in to the Industry

- Some sobering facts
- How to prepare yourself

#### Going it Alone

- The modern start-up culture
- Important indie resources



### **First Party Developers**



- Make hardware platforms
  - In-house studio for platform
  - Help drive the platform
- Often make "launch" titles







### **First Party Developers**



- Nintendo: Mario
- Sony: God of War
- Microsoft: Halo
  - Microsoft strategy changes







# **3rd Party Developer-Publishers**



- Large public corporations
  - Many development studios
  - Multiplatform development
  - Many concurrent projects
- Advantage: deep pockets
  - Constantly shipping titles
  - Current titles bring revenue
  - Use to fund new projects
  - Can support *large* teams



# **3rd Party Developer-Publishers**



#### Activision-Blizzard

• Modern Warfare, WoW

#### • EA

• Madden, Battlefield

#### • Ubisoft

- Assassin's Creed
- Take-Two
  - Grand Theft Auto



# **3rd Party Developer-Publishers**



#### Activision-Blizzard

Bought by Microsoft!

#### • EA

• Madden, Battlefield

#### • Ubisoft

- Assassin's Creed
- Take-Two
  - Grand Theft Auto



#### **Independent Developers**





- Mainly work on other IP
  - Lots of ports/some licenses
  - "Developers-for-Hire"
  - Building cash for own IP
- Often work in parallel
  - X days/week on contract
  - Y days/week on own IP
  - But keep finances *separate*!
- Some financed startups
  - But not really anymore



#### **Independent Developers**





#### • Moon Studios

• Ori and the Blind Forest

#### Playdead

- Limbo, Inside
- Capybara Games
  - Below, Super Brothers
- Finji
  - Night in the Woods



#### **Established Independent Developers**





- Work with major publishers
  - Both first and third party
  - Often get acquired by them
- Or publish non-traditionally
  - Digital Distribution (Steam)
  - Or served online (MOBAs)
- Few concurrent projects
  - Publishers control money
  - A game away from closing
- Hardcore credibility



### **Established Independent Developers**





#### Bethesda

- Fallout 3, Skyrim
- Bungie
  - Halo, Destiny
- Respawn
  - Titanfall
- Riot
  - League of Legends



### **Established Independent Developers**





#### • Bethesda

• Bought by Microsoft!

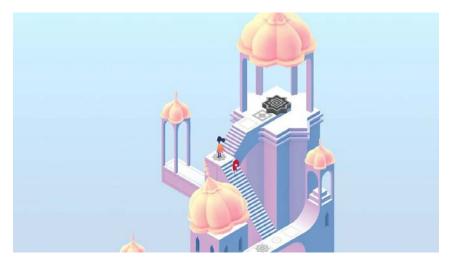
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# Mobile Developer/Publishers



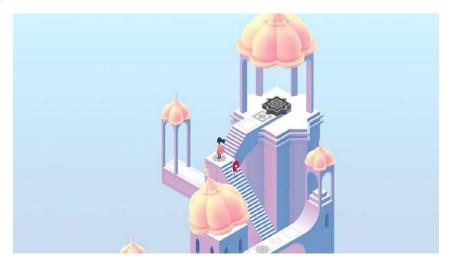


- Make games very rapidly
  - Smaller games
  - Smaller teams (<10)
  - Short development cycles
- But sometimes take longer
  - Identify IP as a major hit
  - Use other titles to fund it
- Apple Arcade is a big deal
  - Helps with revenue model
  - Helps game get discovered



# Mobile Developer/Publishers





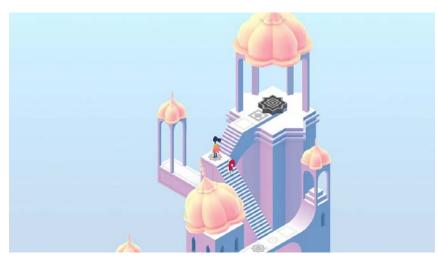
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  - Identify IP as a major hit
  - Use other titles to fund it
- Apple Arcade is a big deal

But often requires a real publisher



# Mobile Developer/Publishers





#### Supercell

- Clash of Clans
- Pocket Gems
  - War Dragons, Episode
- Niantic Labs
  - Pokemon GO
- Fireproof Games
  - The Room Series
- And some **EA**, **Ubisoft**



#### "Indie" Developers & Peeps at Computers





- Original Properties
  - Everything is your own IP
  - Often unusual gameplay
  - Similar to this course
- Very informal cultures
  - Entirely digital distribution
  - Get credibility at online
- Paycheck not guaranteed
  - Don't quit your day job
  - Kickstarter?



#### "Indie" Developers & Peeps at Computers





#### • Jonathon Blow

- Braid, Witness
- Spiderweb Software
  - Avernum, Geneforge
- Zachtronics
  - Opus Magnus, Exapunks

#### Pontoco

- Last Clockwinder
- Many iOS Developers



#### "Indie" Developers & Peeps at Computers





### **Hybrid Game Developers**





- Mixes traditional and digital
  - Digital board game
  - Digital add-ons
  - Sometimes AR features
- Extension of mobile market
  - Typically mobile/tablet
  - Needs to be in obtrusive
- Overlooked but growing!
  - Often not part of job search
  - Need mobile experience



#### Hybrid Game Developers





#### Asmodee

- Mansions of Madness
- XCOM: The Board Game
- KeyForged
- Wizards of the Coast
  - D&D Beyond
  - Magic Arena
- JackBox Games
  - Quiplash
  - Fibbage



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# Some Reality Checks

- Do you *really* want to get into the industry?
  - Salaries are **MUCH** lower than industrial average
  - Crunch time = lots of unpaid overtime
  - AAA space is still shrinking (because of costs)
- Average "life span" of developer is 5 years
  - After that, promoted up or out
  - Says something about stress in industry
- Might be happier at Google, Microsoft, etc.



# **Some Reality Checks**

- Do you *really* want to get into the industry?
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### On the Other Hand

- Some people love all this
  - Creative process > money
  - Would work hard anyway
- Top developers do well
  - Build up lots of experience
  - Leave to found own studio
  - High profile kickstarters
- But you must have **passion** 
  - Too much competition now







### On the Other Hand

• Some people love all this

Until you get middle aged

- Top developers do well
  - Build up lots of experience
  - Leave to found own studio
  - High profile kickstarters
- But you must have **passion** 
  - Too much competition now







# **More Reality Checks**

- As with many jobs, intern experience is key
  - Work on a title between junior & senior year
- But internships are cutting back
  - EA used to be great at training ... and collapsed in 2008
  - Zynga hired their recruiting staff ... and then collapsed
  - Riot picked up the internship slack ... and then over-hired
- It is an incredibly **competitive landscape** 
  - Lots of game programs with cheap talent
  - Application has to have a hook to get noticed



# **More Reality Checks**

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- It is an incredibly **competitive landscape** 
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# Internships: Established Studios

- Search early in year with recruiting team
  - Application process is usually very competitive
  - Check the company website regularly
  - Starts online with later site interview
- The goal is to teach and train students
  - Structured learning environment to ease you in
  - Hopes you come on for full-time after graduation
  - In the past, would offer job at end of internship



# Internships: Indep. AAA Studios

- Searches later in year with one, two recruiters
  - Positions are not advertised outside their site
  - Application process is usually much easier
- Goal is to get cheap labor to push a title to ship
  - You will get thrown into the mix immediately
  - Will be treated exactly like a full-time
  - Hands-on experience and credit for a shipped title
  - Future job and other factors depends on the studio



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# **Preparing Yourself**

- Build professional skills
  - **Programmers**: C++, Unreal, Unity 3D
  - **Designers**: Maya, 3D Studio Max, Unity 3D
- Build a **portfolio** 
  - Make lots of games (even outside of class)
  - Distribute them or take them to festivals
- Become an **expert** in related area
  - **Programmers**: graphics, AI, networking
  - **Designers**: UI design, animation, concept art

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# **Becoming an Indie Developer**

- You need a (somewhat) finished **game** 
  - CS 4152 project (or an independent study)
  - Much more polished than just one semester
- You need a **publishing platform** 
  - App Store: Acceptance is easy; marketing is hard
  - **Steam**: No longer different from App Store
- You need to **market** your game
  - Showcase your game at festivals
  - Reach out to the gaming press

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- You need to **market** your game

You cannot ignore this!



### **Game Festivals**

- Similar to a film festival
  - Submit game for judging
  - A jury plays your game
  - Selects games for event
- Goal: Pre-launch hype
  - Get press to see your game
  - Release early builds to press
- Used to be really important
  - Key element of marketing
  - But less than social media
  - Still a way to get noticed

#### Examples

- Independent Game Festival
  - Extremely competitive
  - But has a student track
- Boston Indie Game Festival
  - Easier for east coast schools
  - Accepts more games
- IndieCade
  - Focuses on "arty" games
- Other lesser festivals



### **Game Festivals**





## **Alternative: Kessler Fellows**

- Internal Cornell award to help entreprenuership
  - Funds your work at a start-up company
  - So you are a (legal) unpaid intern for company
  - But they have to agree to take you on
- The fellowship is very competitive
  - Have to prove that you are an entrepreneur
  - Start with indie route; leverage for fellowship
- **Example**: John Austin from *Gathering Sky*



#### What About Kickstarter?

- Not for new developers!
  - Team with established record
  - Media with existing platform (e.g. webcomics)
  - Everyone else usually fails
- Failure has consequences
  - Known as the "Failed Kickstarter"
  - Kickstarter does not remove pages
  - Can recover, but need new project
- New developers need a "day job"







# Support Beyond CS/INFO 3152

#### • CS/INFO 4152

- Capstone course: take more advanced courses
- Requires game to be more advanced in some way

#### • CS 4999

- Often sponsor two projects a semester
- Take competitive proposals at semester start

#### • Digital Gaming Alliance

• Student club to support game designers



# **Useful CS and Info Courses**

- For programmers
  - CS 4620: Introduction to Computer Graphics
  - CS 5625: Interactive Computer Graphics
  - CS 4700: Foundations of Artificial Intelligence
  - CS 4758: Robot Learning
  - CS 5414: Distributed Computing
- For designers
  - Info 3450: Human Computer Interaction Design
  - Info 4400: Advanced HCI Design
  - And many more

