

#### Class Summary

Games and applications, especially those on continually evolving mobile devices, now occupy an increasing percentage of a student's day. At the same time, performance in math and engineering for that same demographic is dwindling at an alarming rate. To compete in the future and secure promising opportunities, the latter (but not necessarily the former) must change. This class will offer ways to increase class engagement while buildingthe types of games and applications almost certainly found in nearly every student's pocket.

#### Learning Objectives

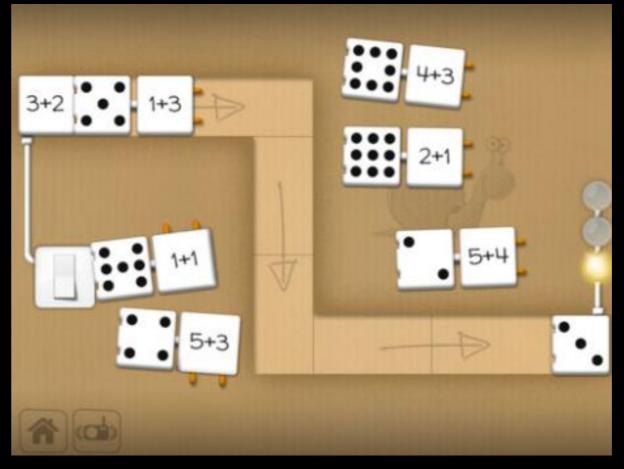
At the end of this class, you will be able to:

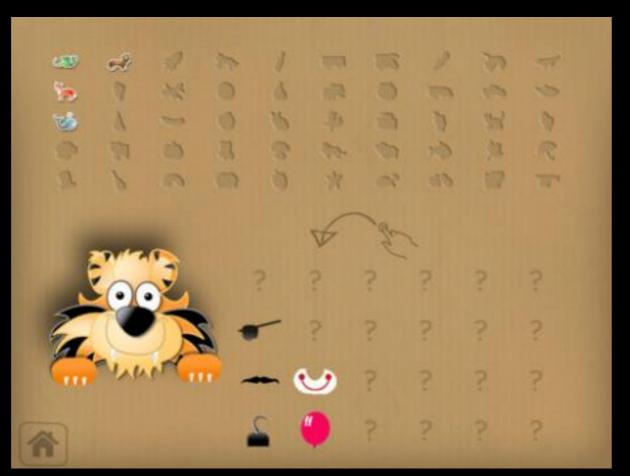
- Explain the content game development process for in STE(A)M curriculum
- List the step to create interactive content for STEAM curriculum
- Recall examples of successful STEAM students projects
- Identify the power of each Autodesk and Unity tool to use in STE(AM) curriculum

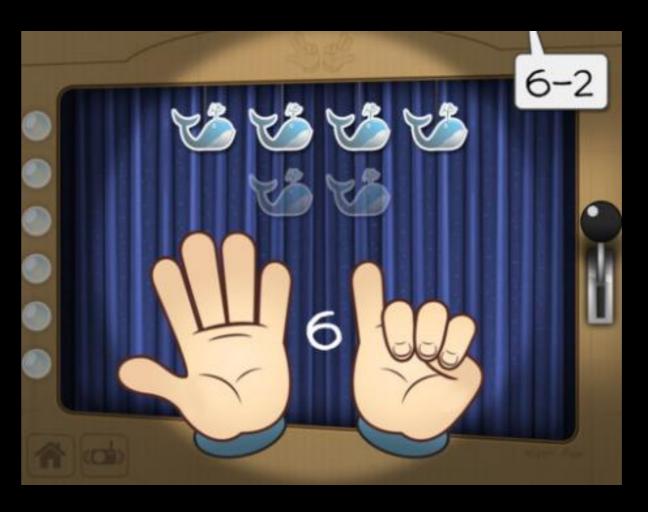
# **Examples of Teaching Core Disciplines Through Game Development**

## Examples









# Examples

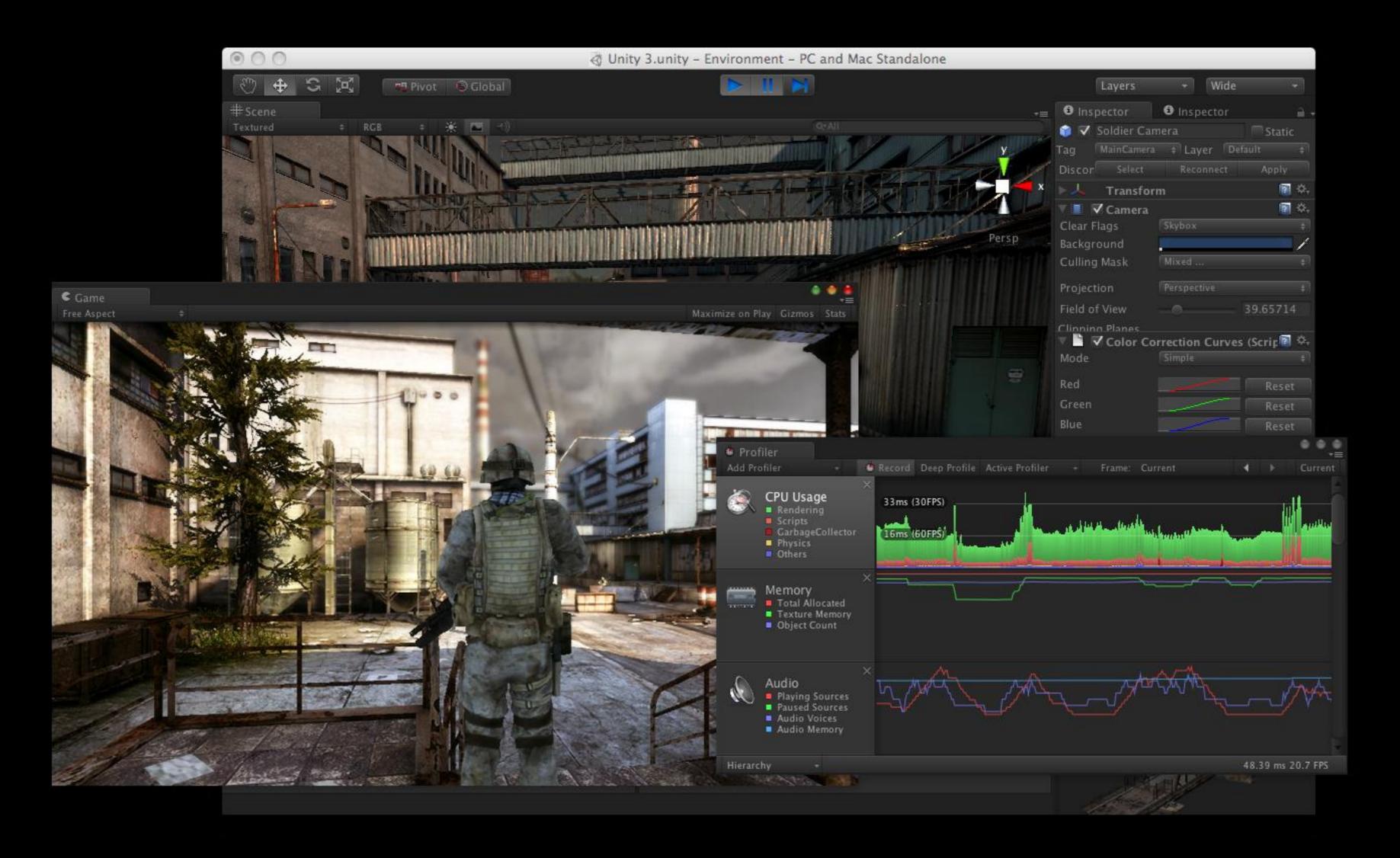
#### Band Together – Backflip Studios

























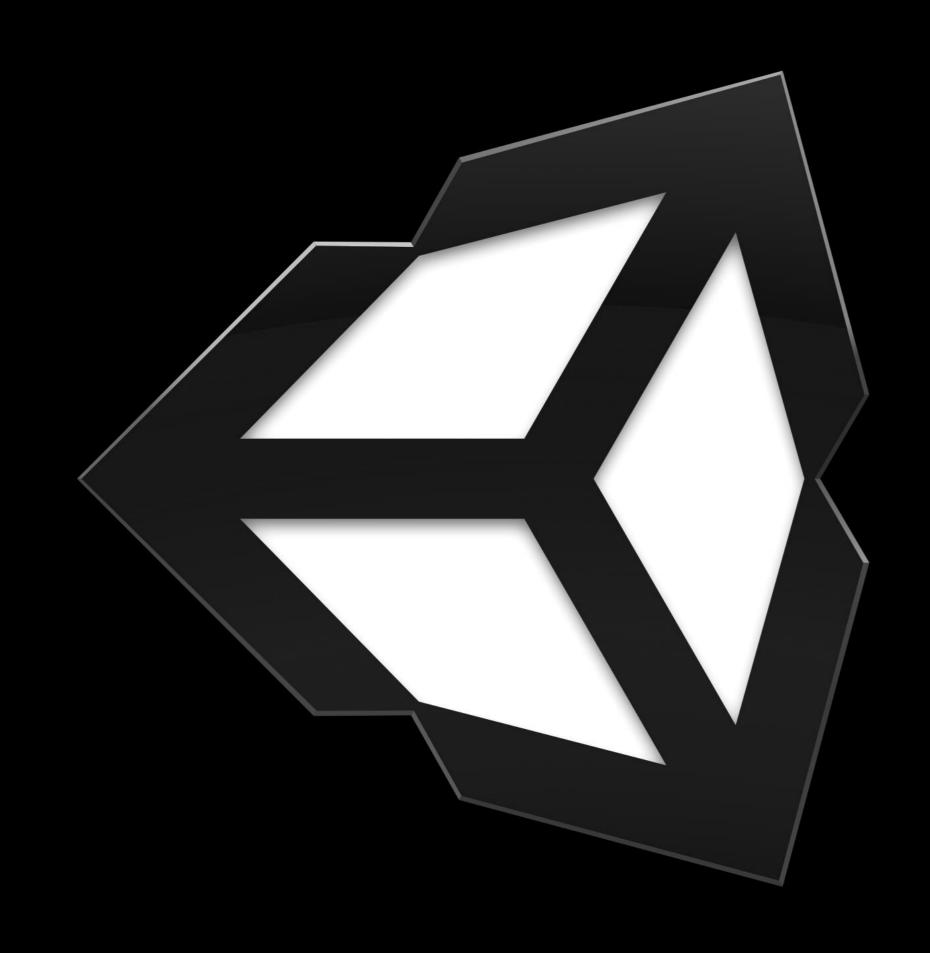












# Developers!!

1,200,000 developers 300,000 monthly active 53% of mobile game developers 2% of developers of any kind

Develop Award: Best Engine



Shadowgun



Dead Trigger



CSR Racing



Kingdoms of Camelot



Ski Safari



Triple Town



Beat Sneak Bandit



Road Warrior Racing



Captain Antarctica



Jelly Defense



Temple Run



Heroes Call



Frontline Commando



Subway Surfers



Blood & Glory

















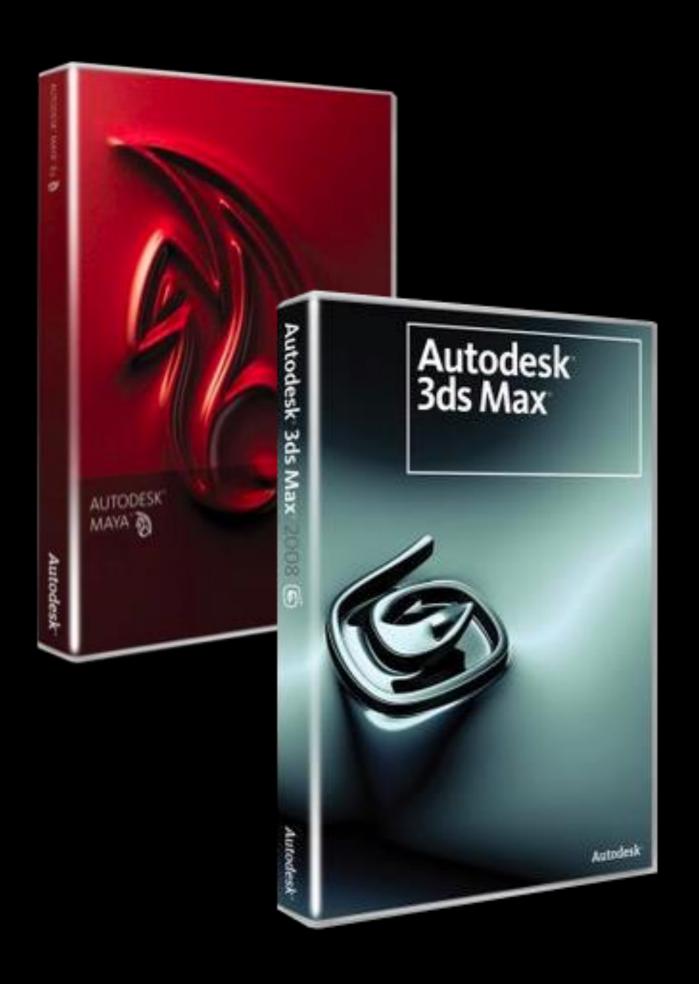


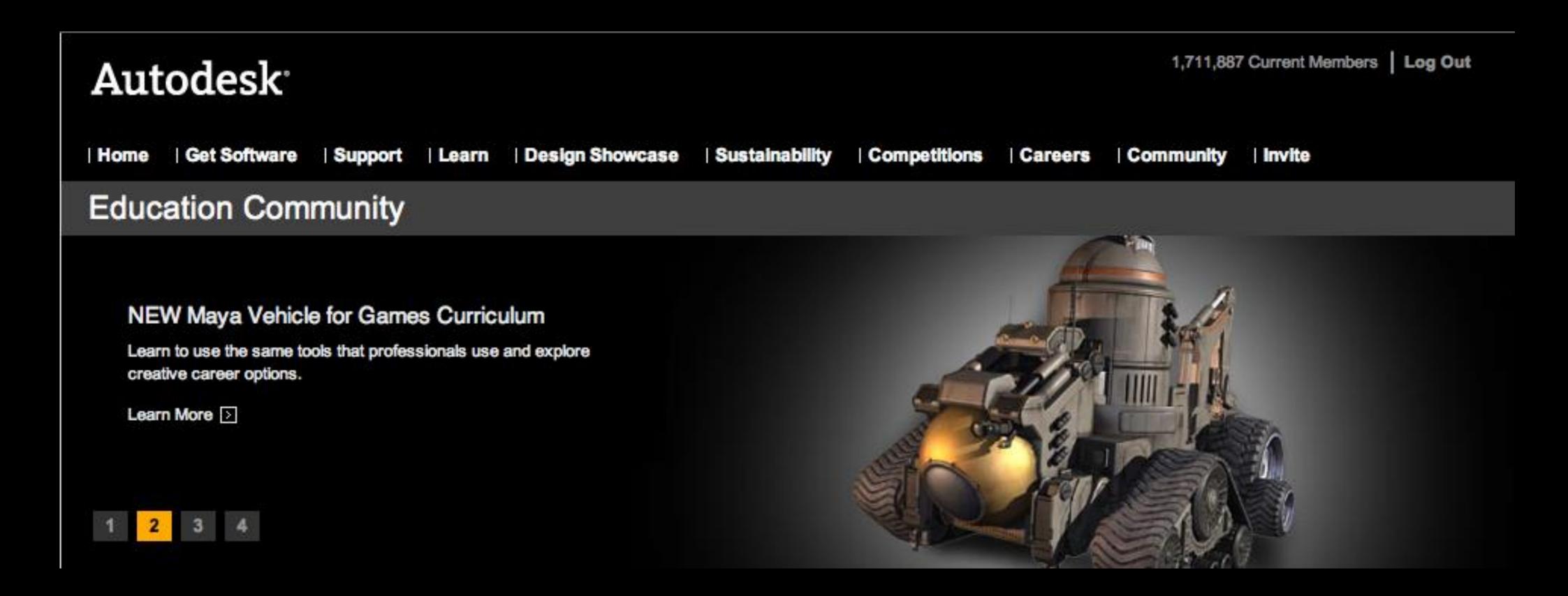




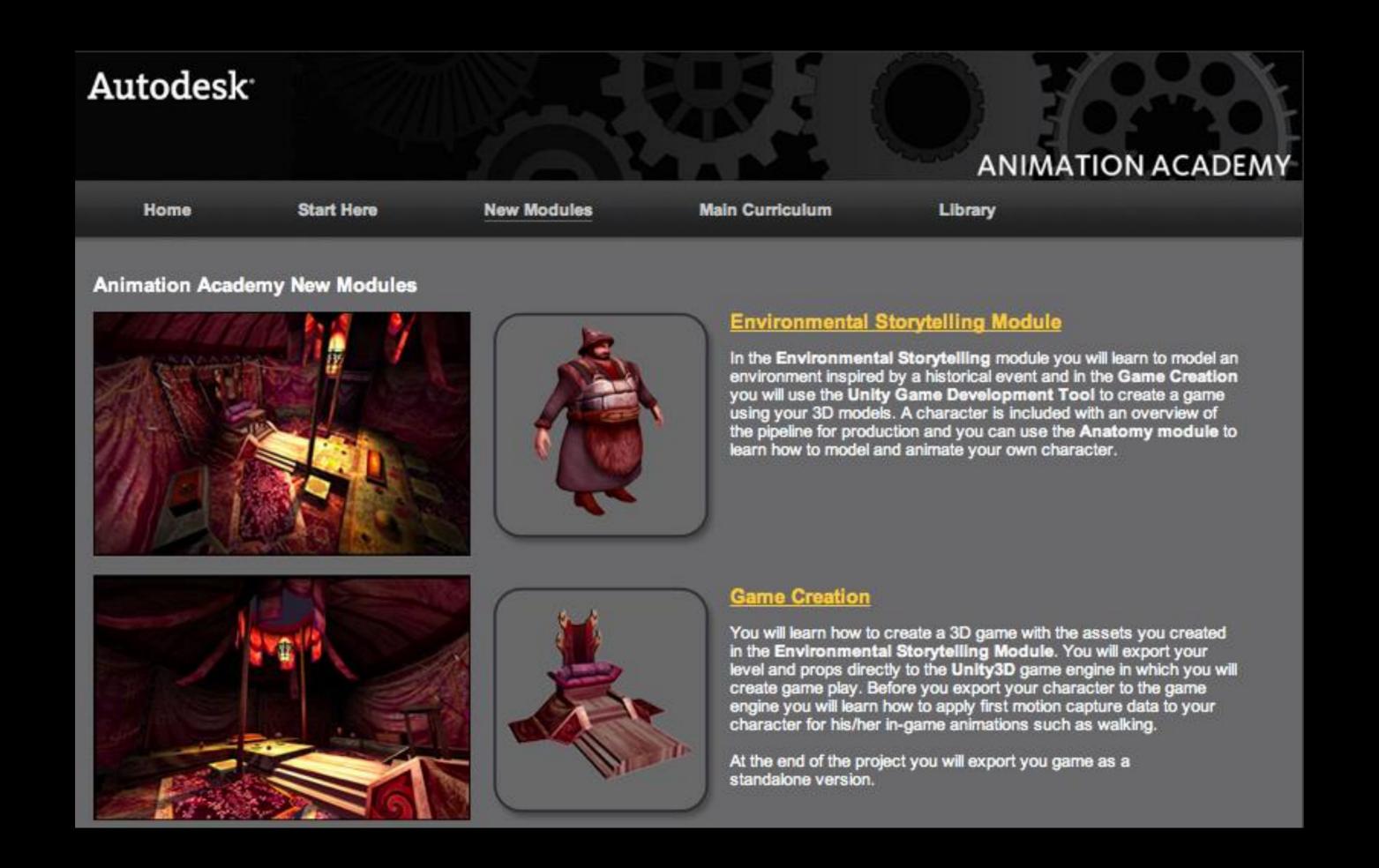


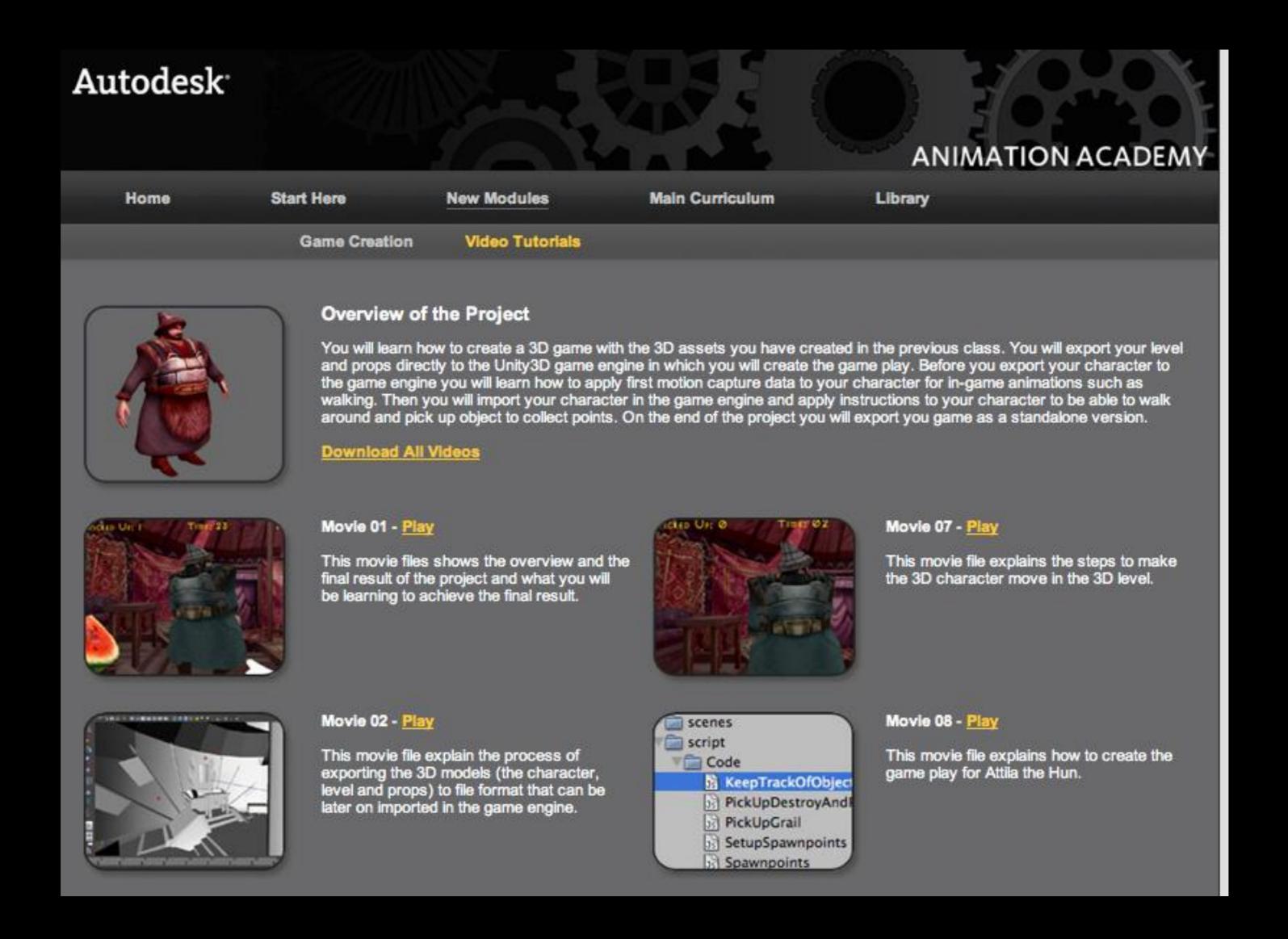
- Streamed lined Asset Pipeline
- Drag and drop Pipeline with Revit, 3dsMax and Maya
- Live-link to content tools (auto updates)
- Support of animation, riggings, mesh,...
- Assets Server gives teams the ability to
  - collaborate on project while maintaining
  - Version control and asset history





http://students.autodesk.com







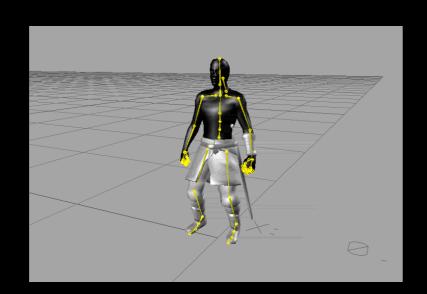
Dinner with Attila Student Example

#### Dinner with Attila: Dev Stats

- 3 students
- ·Maya, 3ds Max, Mudbox, MotionBuilder
- •Unity
- -1 month
- No programming background
- Mocap by Mixamo & Measurand

- · 3ds Max
- Maya
- MotionBuilder





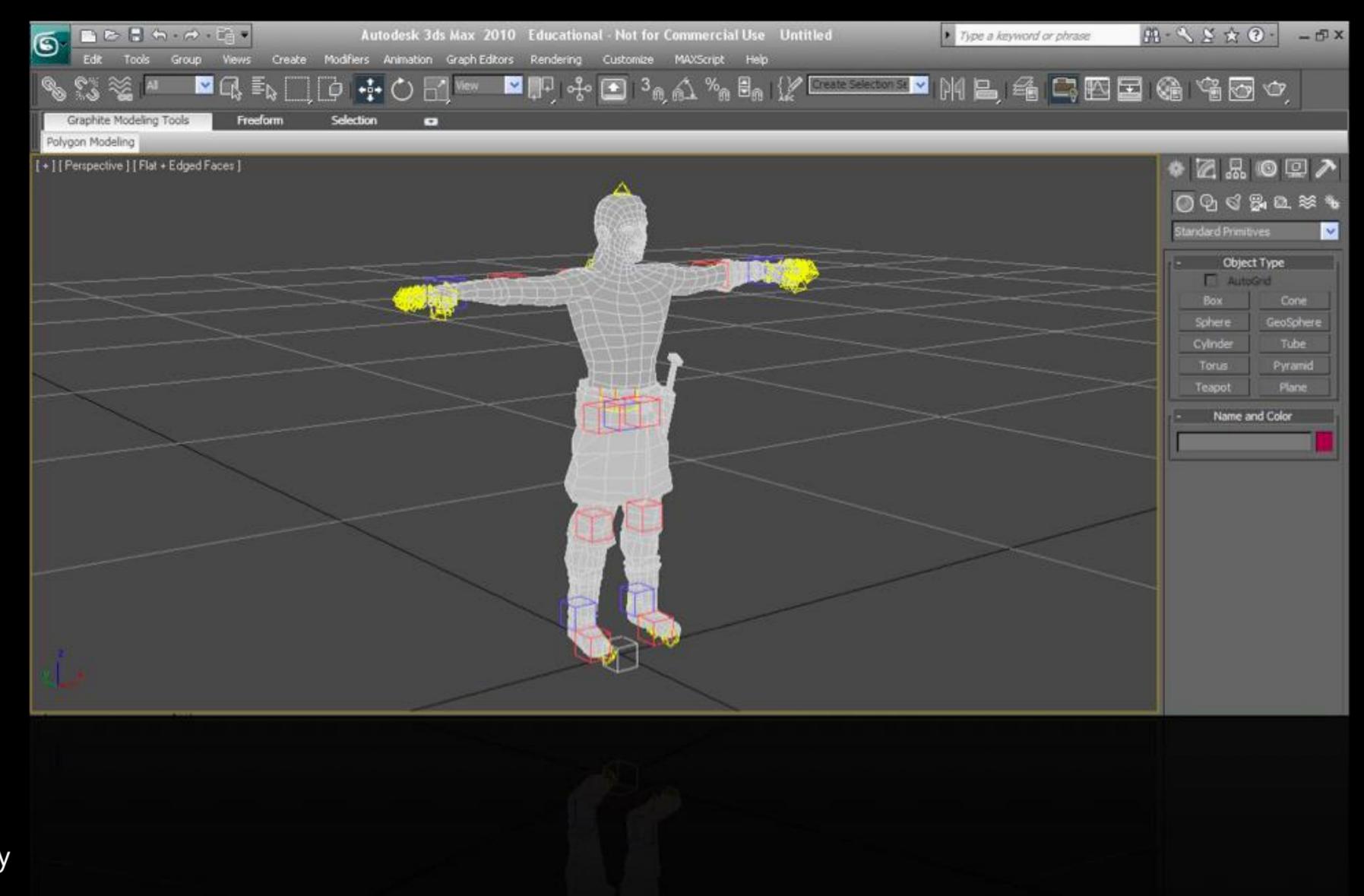


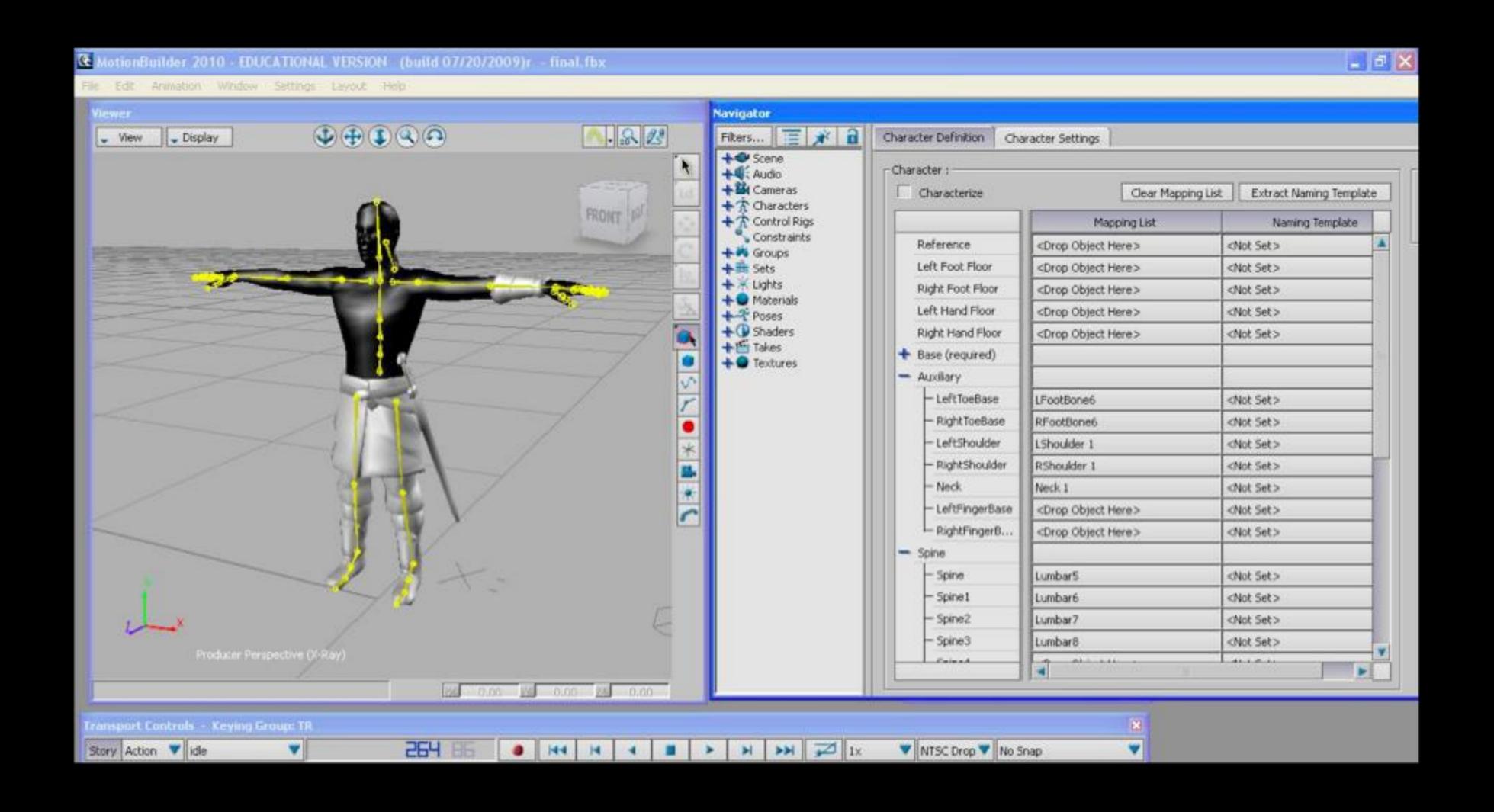


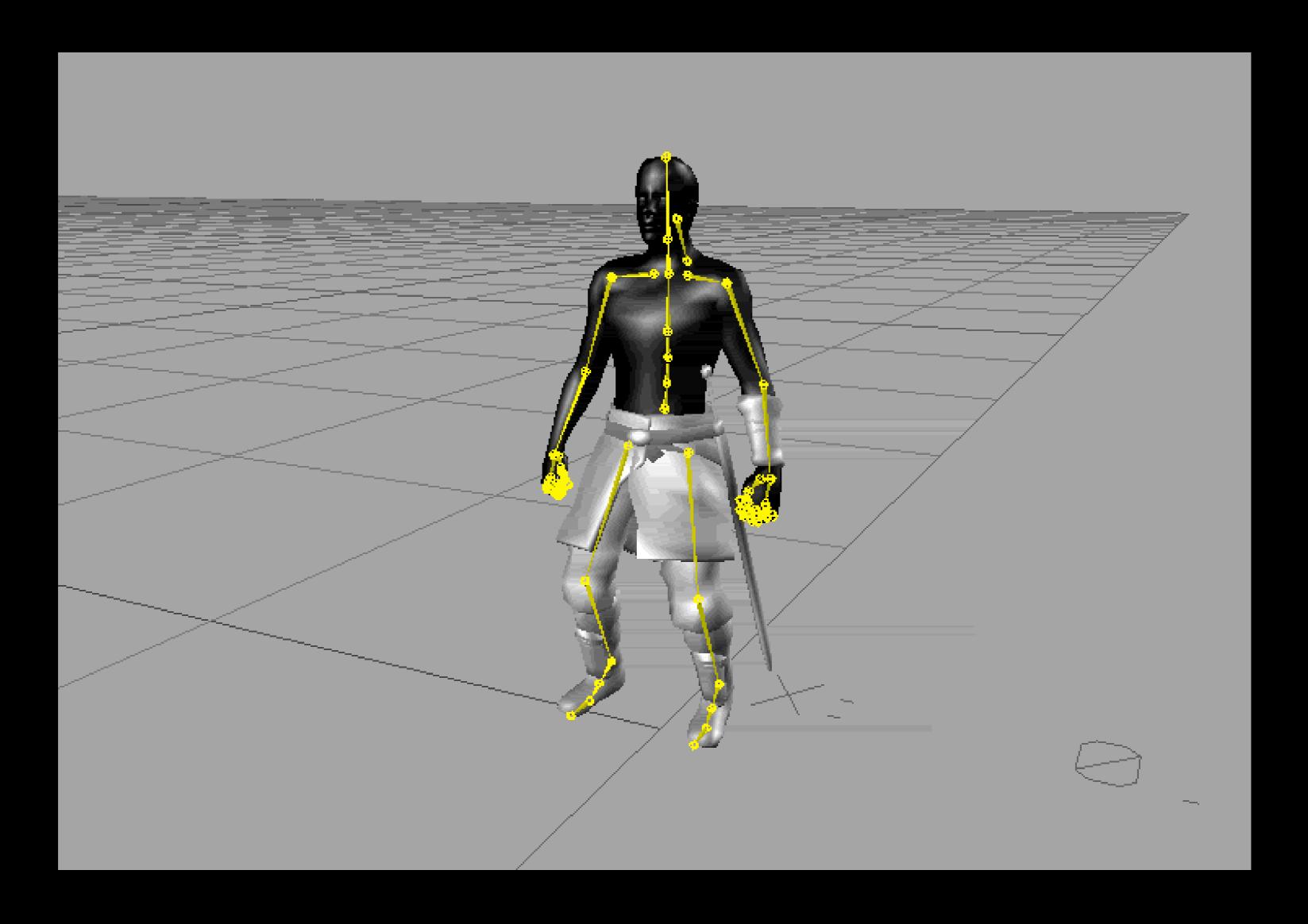




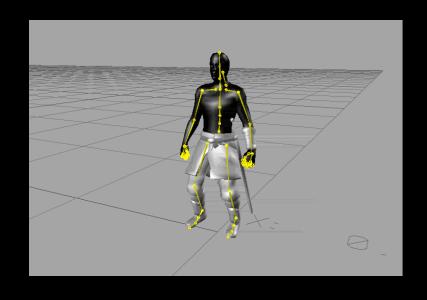


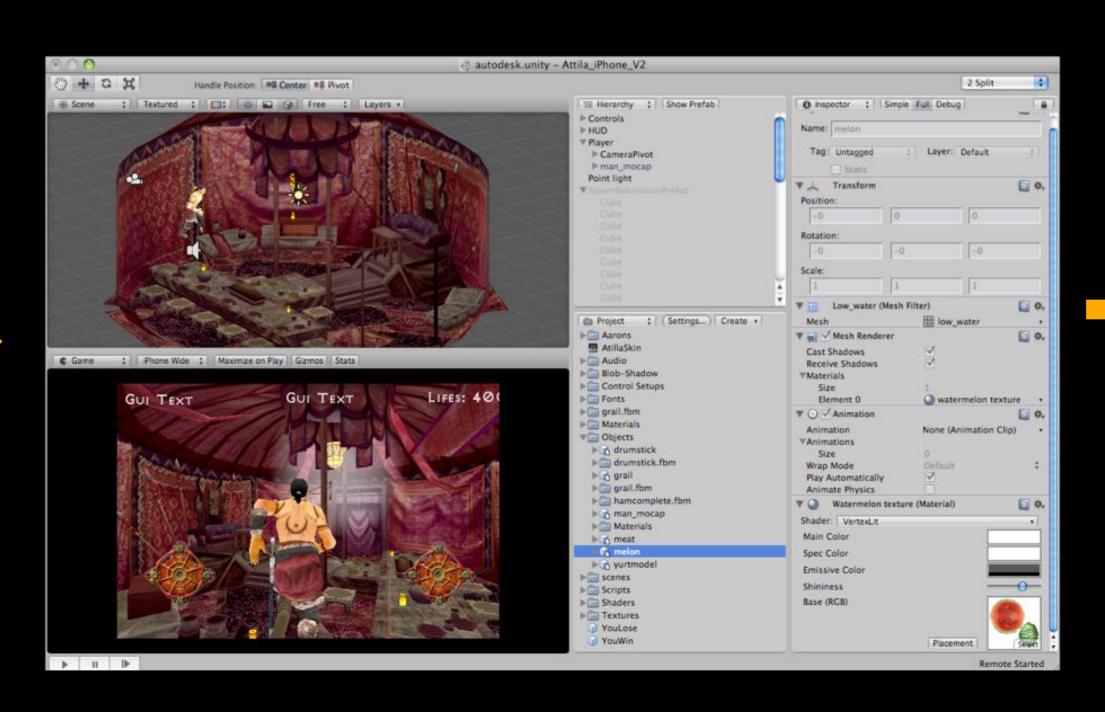














```
var h : float= Input.GetAxis("Horizontal");
var v : float= Input.GetAxis("Vertical");
animator.SetFloat("Speed", h*h+v*v);
animator.SetFloat("Direction", h, DirectionDampTime, Time.deltaTime);
```

#### Hand's on example: teaching STE(A)M

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# Q&A



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