

Games Development



Lecture 0

- About this module

Module Overview



What's the big idea?

- Learn (and demonstrate knowledge of) the PROCESS of developing games in teams

Why is this important?

- Working in teams is part of the real world
- Core skills in computing:
 - Meetings
 - Project planning
 - Testing
 - Documentations
 - COMMUNICATION
 - Deadlines – and delivering SOMETHING WORKING for deadline

Games

Development



This doesn't matter too much!



This is the important bit

Good process will lead to good product

Assessment: 100% CA



- 25% weekly teamworking
 - (participate at Friday meetings & online via BaseCamp)
- 25% week 6 open book lab test
 - (sample test will be available in week 4 – hassle me for this)
- 10% game design and test plan
- 10% alpha release
- 10% beta release
- 10% final release
- 10% demo and defense
- Deadlines will be as in the schedule from Markus for year 4
 - Late work gets zero unless there is a medical cert
 - Deadlines are 13:00 Friday that week unless otherwise states

1 team project



- Create an interesting and technically challenging game
 - Can be entertainment
 - Can be serious game – eLearning
 - Could even be a productivity app using game technologies
 - Week 1 is to brainstorm and make a decision on WHAT
- EVERY student must demonstrate:
 - Demonstrate use of Git DVCS (Github or Bitbucket)
 - Teamworking (Friday meetings & online with Basecamp)
 - Code documentation skills (e.g. Doxygen)
 - SIGNIFICANT contribution of code to project (e.g. 1 level per student)
- PLUS each student will take on at least 1 team 'role'

Each team **MUST** have the following 4 roles



- (1) Rapporteur (+ needs a second role)
 - Ensure every meeting has minutes and team members have weekly todo lists with deadlines
 - Chase team members if meetings or deadlines missed
 - Create drafts of team presentation materials
- (2) Guardian of the code (+ needs a second role)
 - Accept 'pull' requests into MASTER branch
 - Be the team 'Git' expert – drive the Git flow the team adopts
- (3) Tester
 - Unit test writer + integration tests
 - Ideally investigate Travis CI and Unity Cloud
- (4) web API developer
 - User profiles/trade goods etc.

Additional team roles



- () level design tool creator
 - Could be data-driven and/or interactive
- () networker
 - Multiplayer modes (note – you need access to 2 machines for this)
- () App developer
 - publish to Android and iOS apps
- () software architect
 - esp. use of design patterns
 - Refactoring recommendations to team members etc.
- And / or others – you can negotiate with me in week 1/2

Basecamp – team weekly minimums



- weekly meeting minutes
- weekly member todo lists
- draft documents for discussion
 - (e.g. test plan / game design)
- Updated
 - Game Design Document
 - Software road map

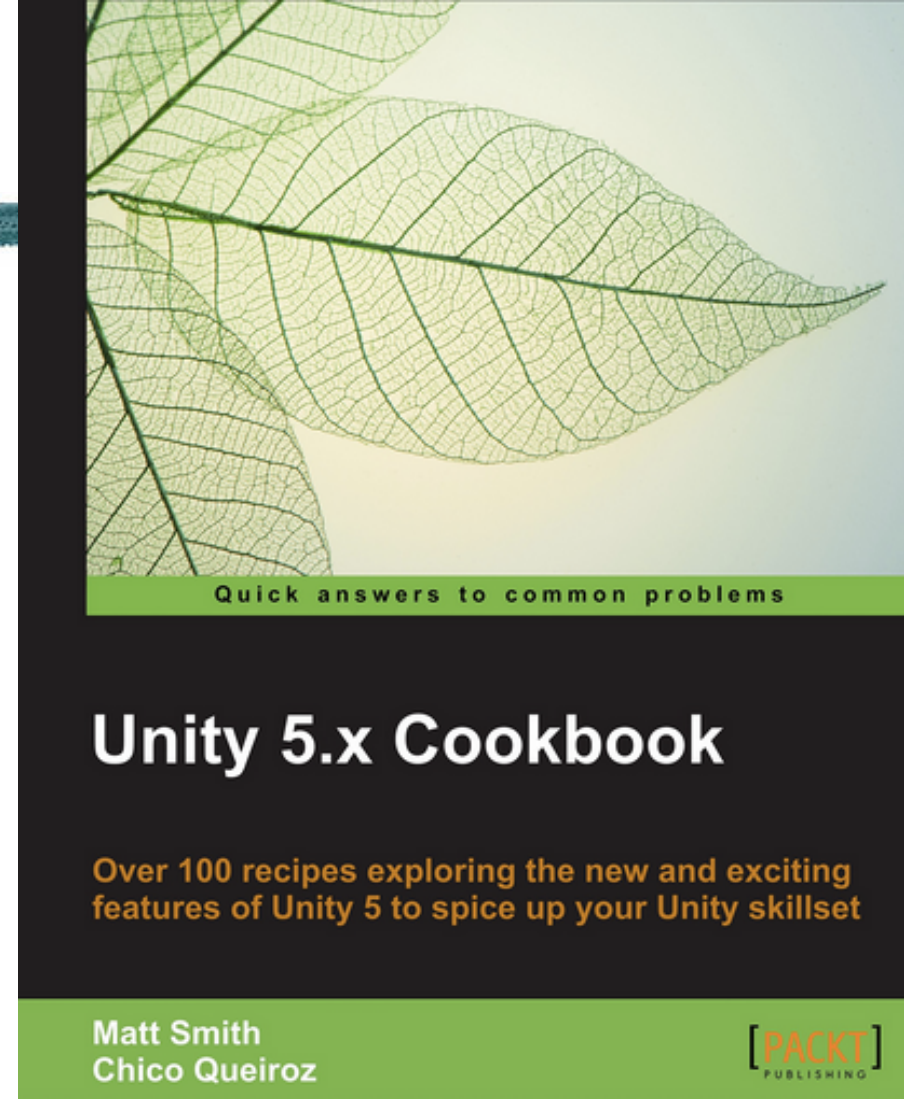
Deliverables



- (1) game design + test plan + feature list + software roadmap
- (2) alpha release - roadmap should state contents and features of each release
- (3) beta release - roadmap should state contents and features of each release
- (4) final release - roadmap should state contents and features of each release
- NOTE: Releases include unit/integration tests + code doc
- (5) demo - PPTs for 10 minute presentation by team

Required Textbook

- **Unity 5.x Cookbook (Sep 2015)**
 - Matt Smith & Chico Queiroz
 - Published by: Packt
 - ISBN: 978-1784391362



- Since publisher/editors are rubbish I will post up PDFs of book onto Moodle – so you get it for free
- Just don't talk to me about editors