CORE GAME USER EXPERIENCE PROTOTYPE

CORE Security and WPI Joint Project

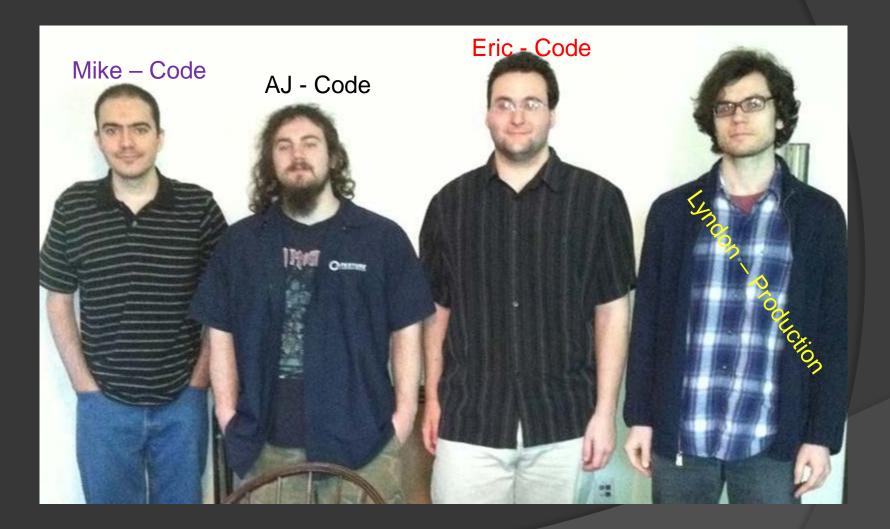




Project Goal

Take the techniques that make games easy to use and apply them to professional security software.

The Team



The Team



Professor Moriarty

IMGD



Professor Shue

CS



Beth Hankel - Art



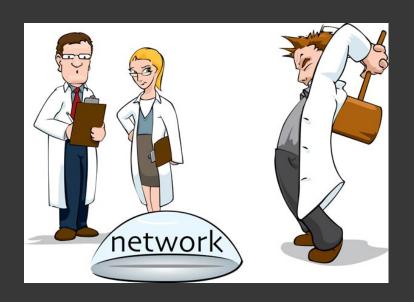
Professor Claypool

CS, IMGD

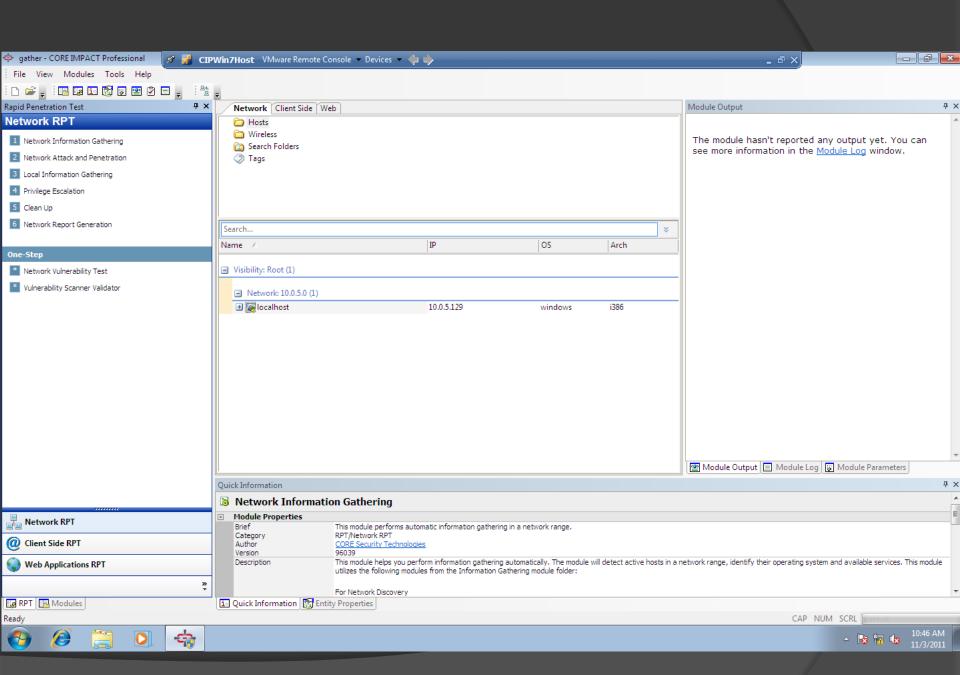
Core Impact Professional

Network Security
Penetration testing:





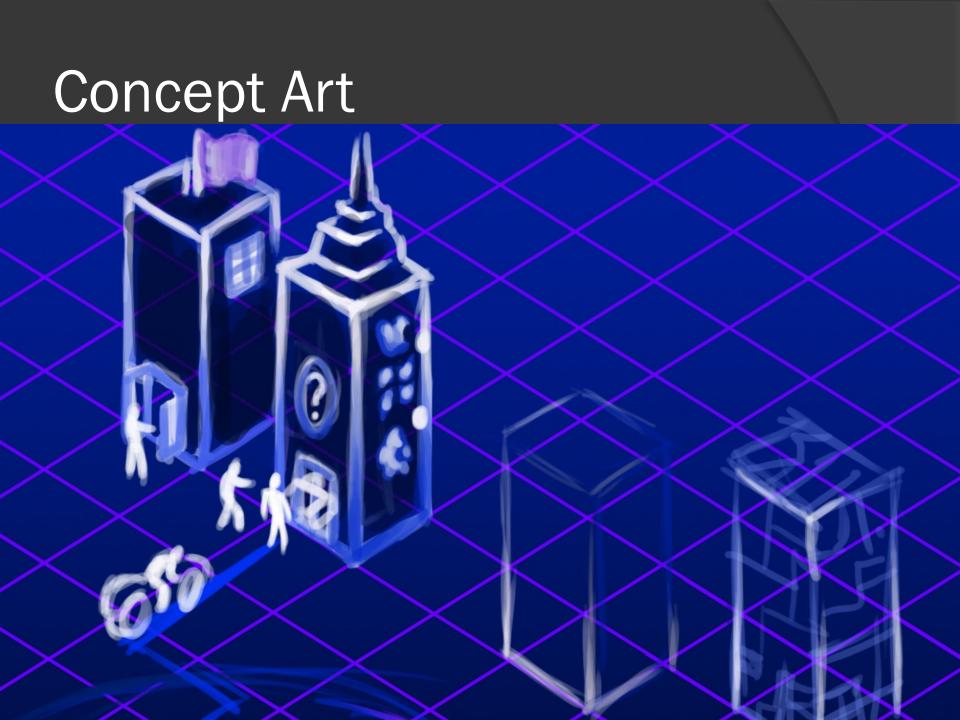
- Scan and attack a computer network to discover vulnerabilities
- By Experts for Experts...



How Do Games Do Complex Information?



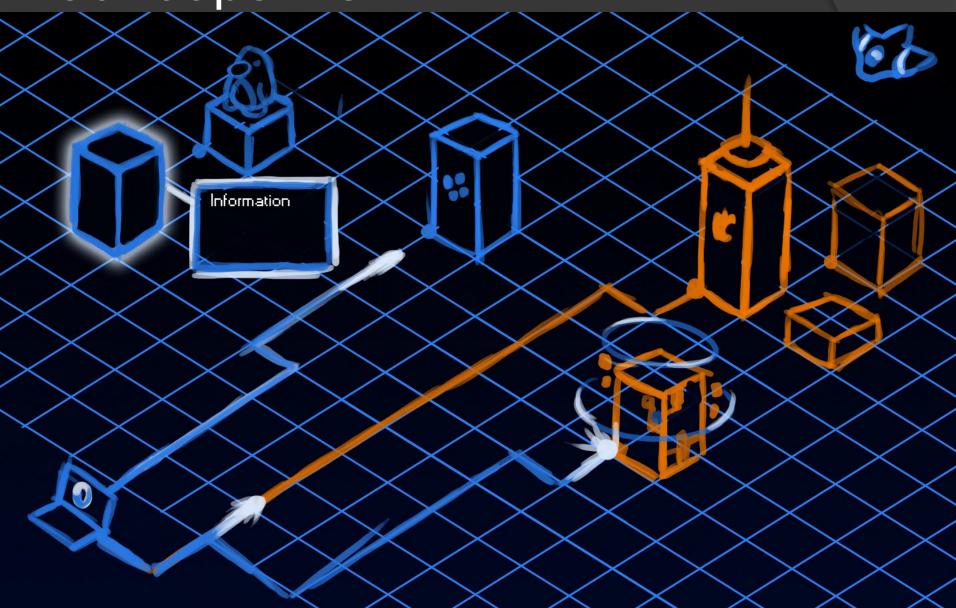
Concept Art



Concept Art



Concept Art



Software Storyboard



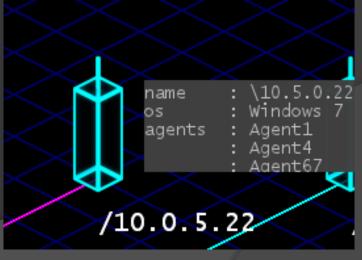
Game UX Techniques

Direct manipulation

Sound and animation

Context-relative information

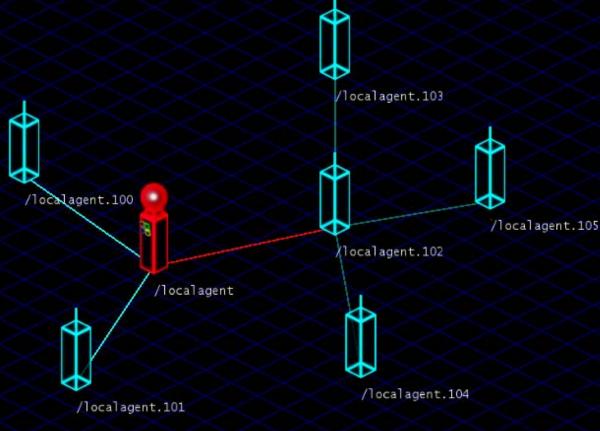




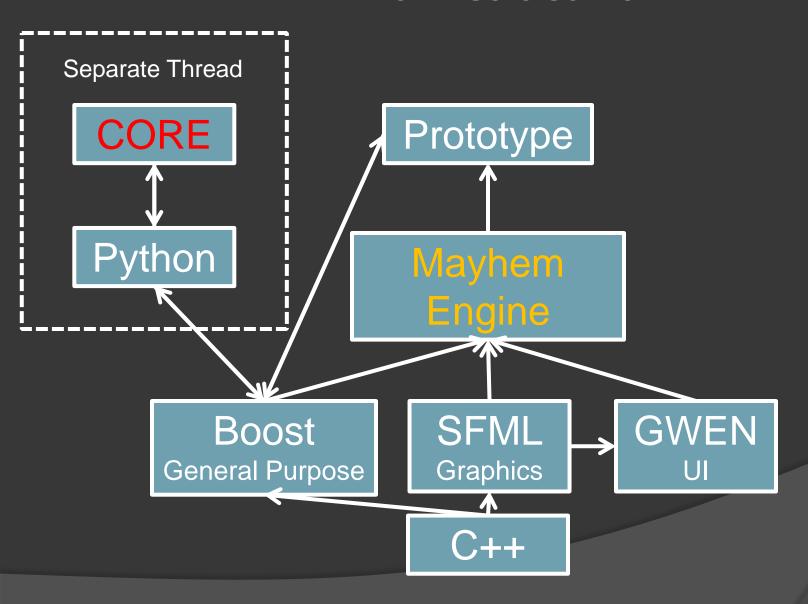
local agent. / cts legent, 120 rloxylogent, 222 local agent 121 /local agent, 104 Aloca age 100

Game UX Techniques

Spatial network layout



Architecture



Usability Study

Does our prototype perform better than the existing interface?

- Control group: Core Impact Pro
- Test group: Prototype
- Network security task
 - Scan a network
 - Attack a machine
 - Discover a new network
- 2) Subjective survey questions
 - What did they think about the interface

Usability Study

Interface	Test Score	N	Standard Error
CORE Impact Pro	9.07	15	0.702
Mayhem Prototype	11.19	13	0.477

Independent t-test (2-tailed):

P = 0.0225

Interface	Subjective Survey	N	Standard Error
CORE Impact Pro	12.5	15	2.465
Mayhem Prototype	16.8	12	1.011

Independent t-test (2-tailed):

P < 0.0001

DEVELOPMENT BUILD DEMO

