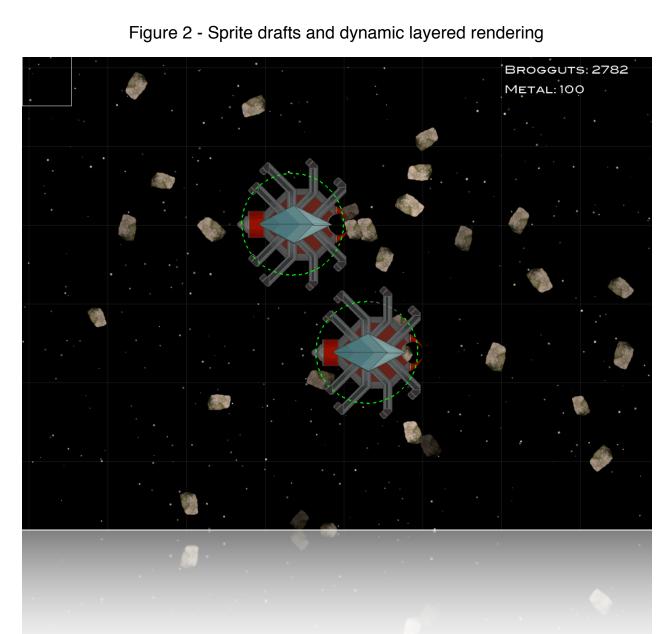
# DEVELOPING AN IPAD GAME: BROGGUTS

## Rendering (OpenGL) and Graphics

- Objective-C vs. C (Quartz vs. OpenGL)
- Layered particle engine rendering stars, sparks, specks, etc.
- Matrix operations drastically improve "dirty" image speeds

# Figure 1 - Proxy sprites filling in before the artist was hired BROGGUTS. 39031 METAL: 70 SPID SNIP ER HONE NOW SPID ER



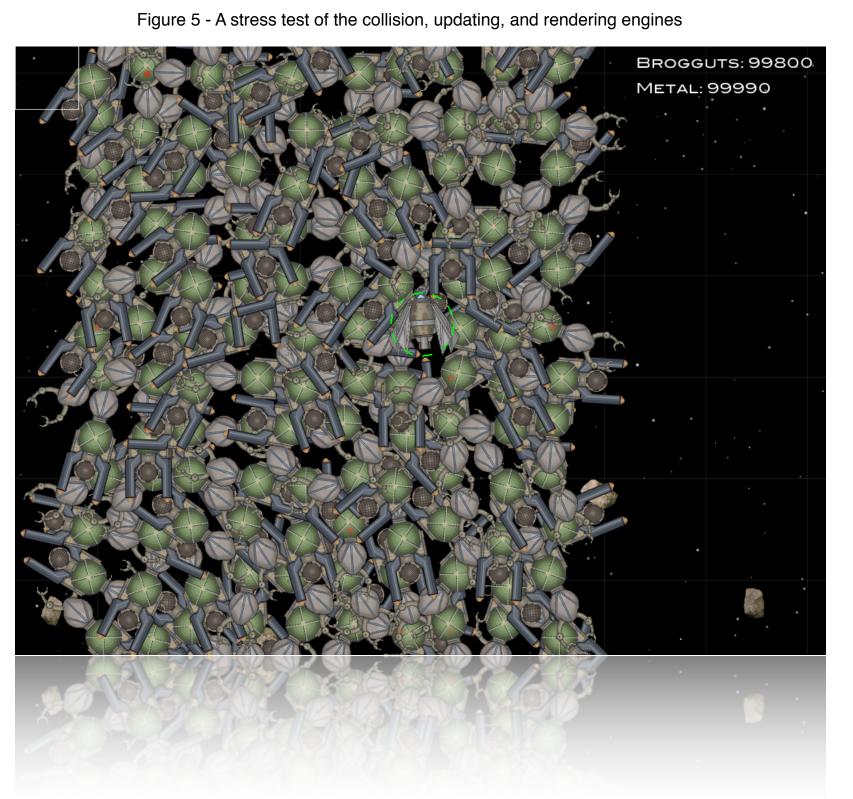
### **An Introduction**

Brogguts is the main focus of an independent study for COMP 194 at Tufts. It is required to see the project through the entire development process, from design to distribution. Given my history (and hopeful future) with game design, this project has been invaluable to understanding the complexity of the development process.

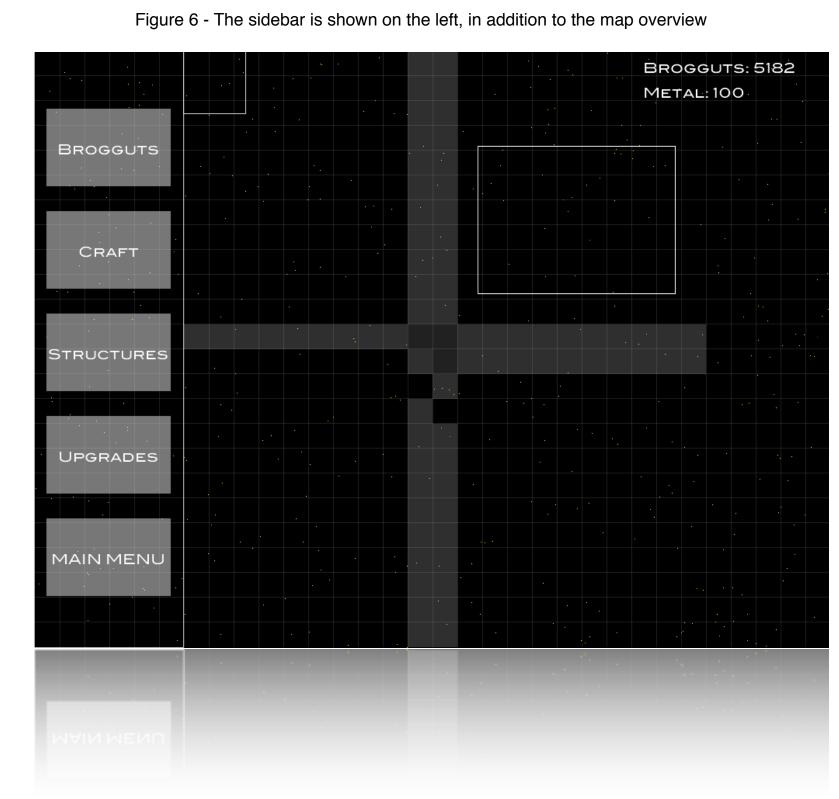


# Object Collision and Updates UI and Menu Interface

- Spacial collision detection
- Radial effect collision detection
- A\* (A star) pathfinding
- Offscreen objects are only updated if necessary



- Essentially rebuilt the Apple UlKit framework using OpenGL and C.
- "Tap and Drag" seemed to be the most natural gesture to create units
- Overview map similar to popular RTS games

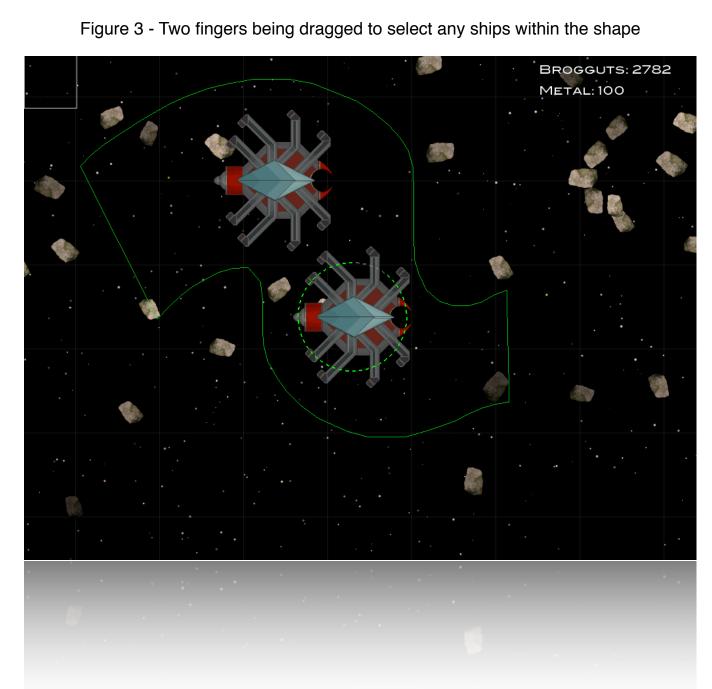


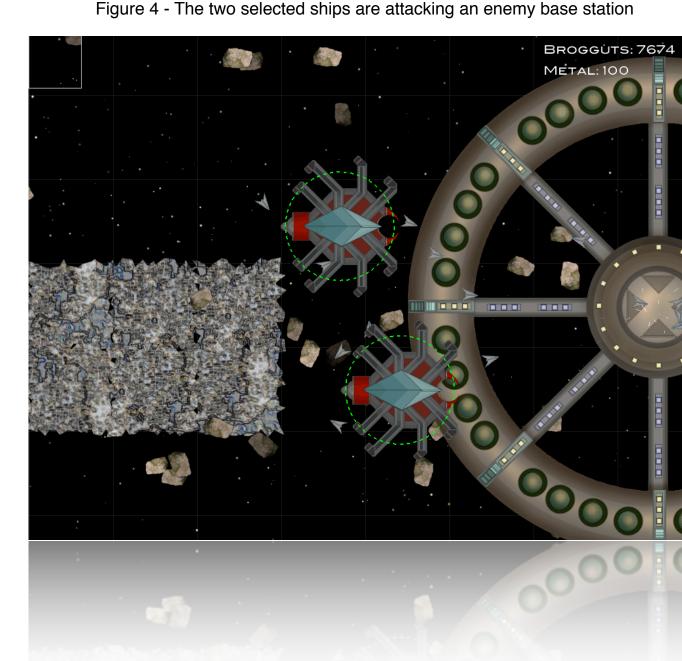
### What is it?

Brogguts is a real time strategy game being developed for the Apple iPad by Foster Lockwood.

### **Touch Interface and Unit Selection**

- Touch screen ≠ mouse and keyboard
- Finding natural control mechanisms
- Choosing which actions to make automatic (attacking, chasing, etc.)





# Work-in-Progress and Coming Spring 2011

- Beta testing has already begun (please ask if you are interested, and have access to an iPad)
- No iPhone support, too little screen real estate.
- Full multiplayer support (through Apple's Game Center)
- Map creator and editor (Both Mac and iPad versions)
- Campaign/BaseCamp challenge levels
- Brogguts will be on the iPad App Store by the end of May 2011
- More games after this one!

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