

BustABobble

A Puzzle Game for Android

Andrew Cleland

CS 561 Open Source Project

Summer 2016

Project Goals:

- Wanted to experiment with Android environment
- Wanted to learn about game development.
 - How do game engines work,
 - How are games designed?
- This project seemed like a good opportunity to explore both of these things, while also learning about how to do open source development.

Project Inspiration:



<http://www.albinoblacksheep.com/games/bustamove>

My strategy

- Plan was to work through this book by Jonathan Harbour
 - Hopefully incrementally adding pieces to my game as I learned new things.
 - Possibly use book to build my own primitive engine from scratch.
- In practice, I found the learning process to be too slow.
- About 4-5 weeks in, I realized I needed to give up on writing my own engine, and just import the one developed in the book.

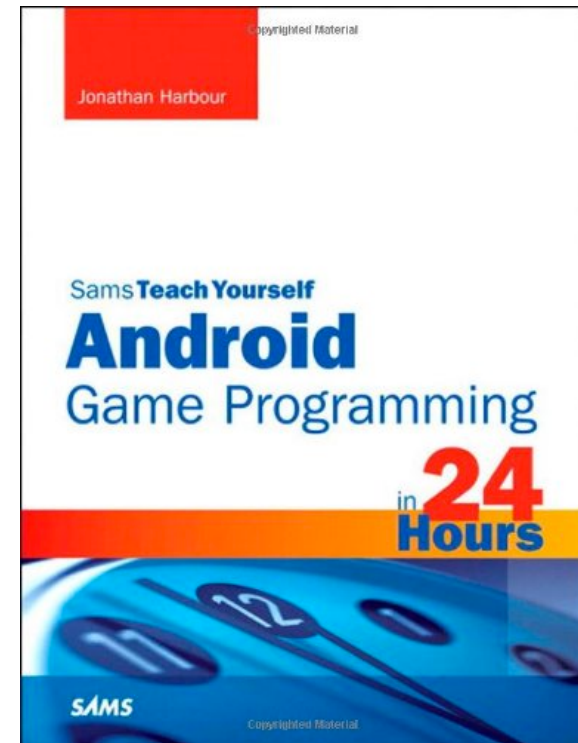


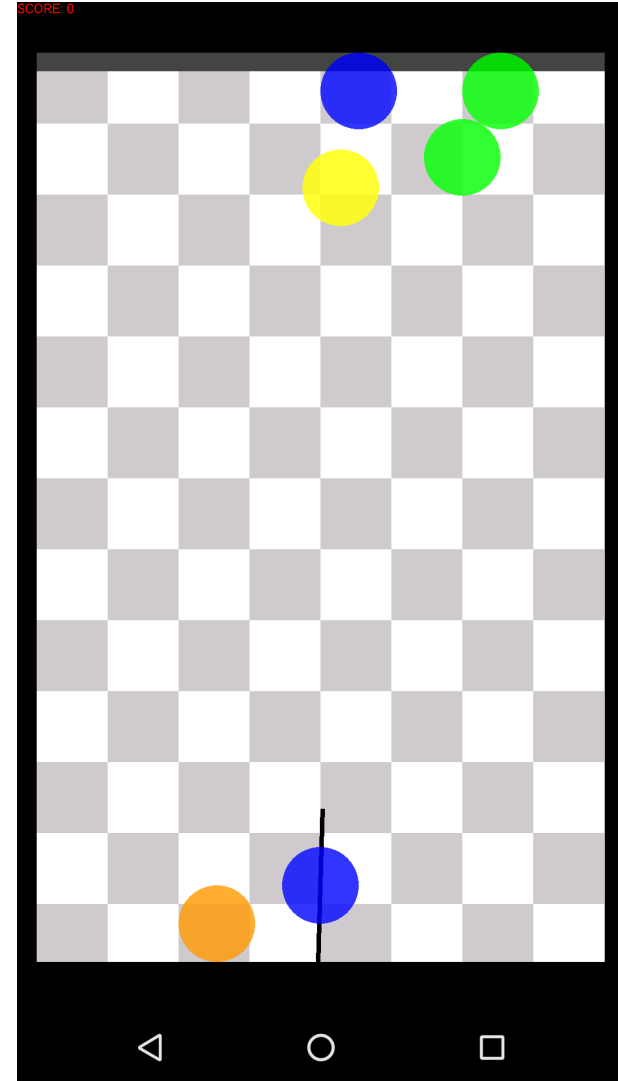
Image source: [Amazon](https://www.amazon.com/dp/1430224444)

Licenses and Permissions

- I chose the MIT License because it was simple.
- It wasn't clear what license applied to the source code in the book.
 - Asked author for permission, which he gave freely.
 - He said "No licensing required for any software created using the code from the book. The copyright only applies to re-publishing the information in another book or blog or other format without permission."

Challenges and Successes

- Got most game mechanics working
 - Bobbles shoot and stick in the right places
- I did graphics myself using android drawing tools.
 - Helped me to learn about how to use android graphics
 - Didn't have to look for open source game art.
 - But it looks pretty basic. Opportunity for growth later on.
- Learning experience working with someone else's code
 - Didn't always see logic in the engine I was using.
 - Sometimes had to make minor changes to the engine.
 - This led me to learn more about how engines work, and about how to build on existing code.
- Still need to implement game logic for when bobbles cancel each other, levels, scoring, etc.



Demo Video

- <https://youtu.be/b2j3L30qUNY>