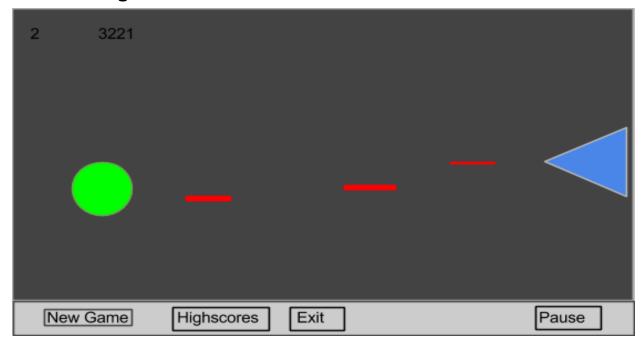
The Making Of 37bec-amvios



Real Men Wing It:

The basic layout of the game is above. The user is the triangle and can move up and down with the arrow keys. They will shoot by clicking the mouse and aim by pointing it. The aim of the user is to shoot and destroy the ball (probably won't be a ball in the end) before they overtake the player. If one of the ball hits the player then the ball is destroyed, the player is unable to move for a second and flashes to show this.

The user will control the non-game elements of the game from the menu along the bottom, they will click the button that will do stuff. The stuff that happens upon them clicking the button depends on the button. It will generally be pretty self explanatory from the label on the button. It may not though. Depend on what I feel like at the time of creating said button. I can say that they will be definitely be able to create a new game and pause. They may also be able to pause with a key (space or p, can't decide if it's necessary and which would be better if I did). This will result in game play stopping and a message saying "Paused' to display across the window. When the new game button is pressed a new game will be started, first some text will show, telling them how to play, or not. Watching people flounder would be rather funny. Then the game will start. The game will become progressively harder with more circles attacking the player the longer they last. When they die they will either be shown the high scores or be asked for their name then be taken to the highscores menu.

Who Needs Code When There's Pseudocode:

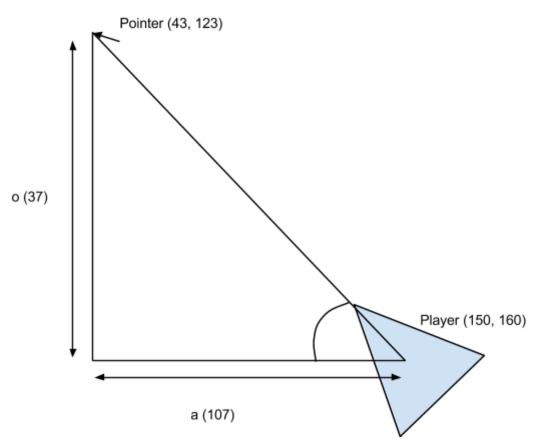
Pseudocode is false code that does not work and we do it for the fun, just to annoy people, computer scientists are like that. I chose to create my own language as you can see. It shows you the complexity and un-understandability of the code.

```
ljkfadsjlljk;ads jkl;l;;jlasdf ;ll;l; asdl;kl ;kadsf kl;l; l;adsf ;ll;l;lk;j
sadf
kl;jads jl;l;kl;kd asl;kl;kadsfl;kl;k;lkasd l;kl;;l adsl;l;kl;jkds af;lk l;k
lk; fds
kjfod
fds
fsdjkjads ;lkl;l;kl;k dskl;l;kl; sdkl;l;ksad lk;l;klk;ads lkl;jkl;jksad f
k;sadf l;lk;l;ads lk;l;asd ;l;ll;ads l;;ll;ds l;lk;lk;sad jkl;ljk;dsa
fjkdsjkjkfdasljklk k dasfljkljkl dsfljk jlj
fadsjkl
jfdjkl;kldf
jadfs ll;kdsa kl;l;k;lkds al;k l;kl;k dfs
l;sadf lllk;dsl;kl;kl;k adfsl jljkl; adfsl;dfqsldf sjkl;l;jk adfs
fsadhjk fasdkl
jlkdfsal;lk;l;dslk;;lkl;akds l;l;k dsaf kl;l;k l;ksad l;klk;l;k lk; dslk; l;k
dfs
l;adsl;adsf l;l;l;'ads l ;kl;'s ;adl;';';'ds a;';;'dsa ;';'l ;'dfsa
dsall; lk; fdas
jfdjsaklf
fjkdls;a;dlkfjs
ajfdksa;fdasf
ljk;fads ;jl lk;dfsljk; jlk;adfsljk;jkp adfs ;dkl ; ;
adfs
fsd a
dfadfs jkl dfl
;adfadfg adfg lk ;
```

Done. That is the how I will code my game. The actual code will be in java compiled with the openjdk build on linux using vim as the text editor for the code.

Only A Psychopath Would Want To Shoot Things:

The player controls the triangle with the mouse and keys, the keys move it up and down. The mouse controls the direction they are facing and when they shoot. To work out the direction of the player I used some basic trigonometry to work out the angle from the mouse.



Using trigonometry we can see that

$$\theta = ata \frac{Yplayer - Ypointer}{Xplayer - Xpointer}$$

With this we can rotate the player to that angle, this does not quite work though as it starts shooting the opposite direction if aim to the right of the player, fuck you though, deal with it, too much effort to fix that fantastic equation to please you. I'll just move the player so you can't do that.

With this we can give the bullets an angle and speed then we can get the x and y displacement for each frame with this.

$$xv = -SPEED * cos \theta$$

 $yv = -SPEED * sin \theta$

The speed is negative because we want the bullet to move to the left, decreasing its x value rather than the right. And negative for the vertical because it just is and that works and I have no idea it just works, stop asking questions, it isn't good for you.

THIS IS ALL YOU ARE GETTING, REAL WORK AWAITS.

OKAY, I'LL DO SOME MORE.

Specially for you.

And All Wrapped Up In A Tasty Jar File:

For simplicity of distribution and user friendliness I am going to distribute this wonderful game as a jar file. A jar file is just a zip file that the java runtime treats specially because it starts with a 'j'. It contains the classes and any resources that they may need in one simple file so that things don't get lost. To create one we go through the horrible process of something like this.

jar cvef Game Shooter.jar *.class images

What this does is creates a jar file (hence the c in that vomit of char's at the start), set Game as the class to be executed when the jar is run (the e in the mess), name it Shooter.jar (for lack of a better name) and include all the .class files (that's a bash thing but I'll assume you know a bit of that. If not, look it up, install linux, play with that for a while, then come back) and the images file that contains some pretty triangles at the time of writing.

This all assumes that the files have already been compiled with something like:

javac *.java

Else you could get some interesting results.

Then to run it on linux we'd use something like this:

java -jar Shooter.jar

And walla, you have you fantastic game ready and waiting. If you use one of those BDSM operating systems like Microsoft Windows or Mac OS X then you can probably just double click it and hope it works. Of course if you were to use a spoon feeder you could probably do all this with a couple hours of tutorials on youtube to find the right buttons then click them and have someone else do this for you.