

After the break...

Java & Game Development

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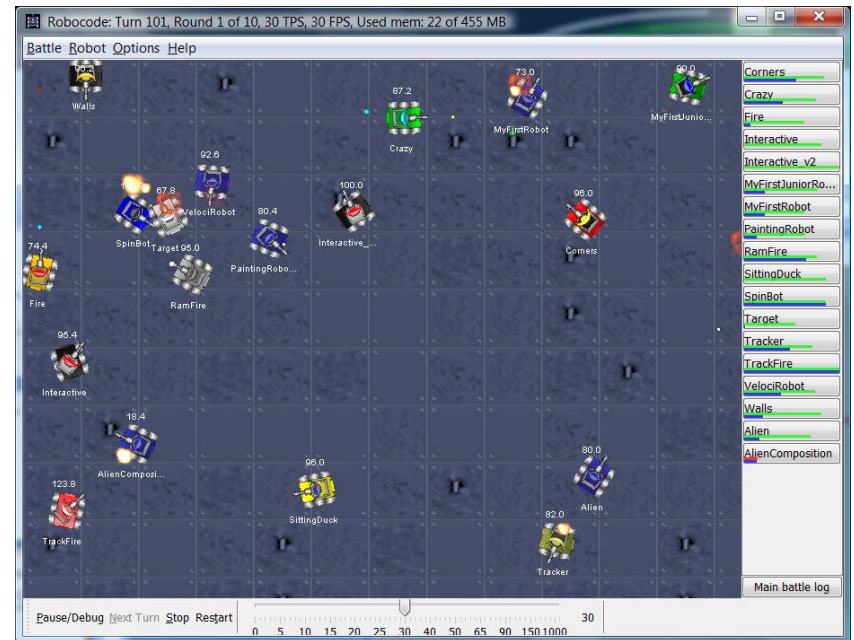
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Java & Games

- Examples:
 - Robocode
 - Minecraft
- Resources

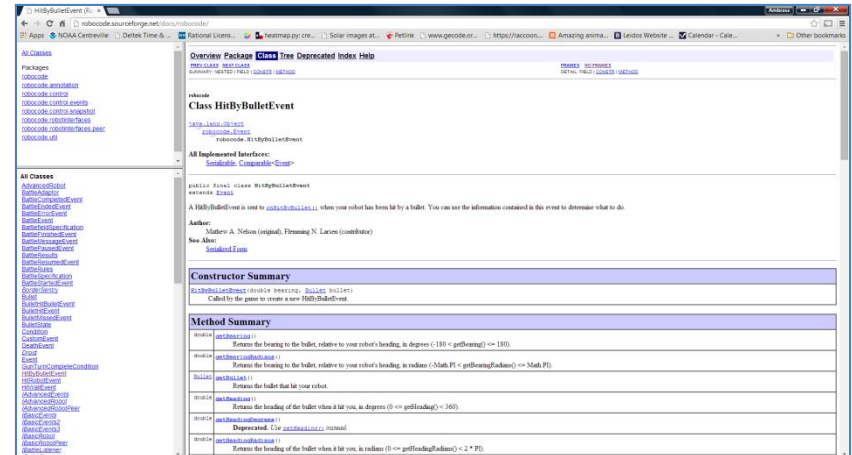
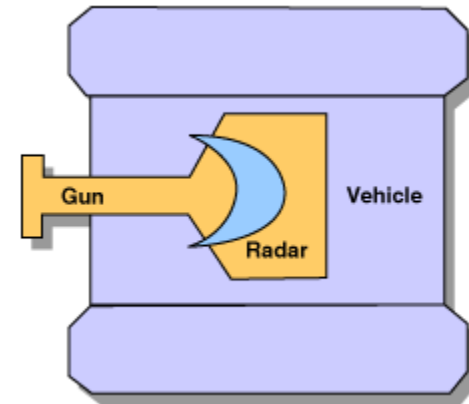
Java & Games: Robocode

- Robocode is a programming game, where the goal is to develop a robot battle tank to battle against other tanks in Java or .NET.
- There is an API to program the behavior of your robot (how it senses the environment, moves, attacks, defends)
- The robot battles are running in real-time on-screen
- <http://robocode.sourceforge.net/>
- To install, download the latest version (robocode-1.9.2.6-setup) and double click it



Java & Games: Robocode

- Great documentation...
 - Tutorial on creating your own robot:
http://robowiki.net/wiki/Robocode/My_First_Robot
 - Page on the game physics:
http://robowiki.net/wiki/Robocode/Game_Physics
 - JavaDoc:
<http://robocode.sourceforge.net/docs/robocode/>



Java & Games: Minecraft

- Minecraft:
 - Created by Swedish programmer Markus "Notch" Persson
 - developed and published by Mojang since 2009
 - Mojang purchased by Microsoft in 2014 for \$2,500,000,000
 - How popular?
https://motherboard.vice.com/en_us/article/8q85xk/we-finally-know-exactly-how-popular-minecraft-is
- Minecraft is written in Java
 - 3D “block” world that is procedurally generated based on seed from the system clock
 - Interact with world objects (build, dig, etc.) aka collision detection
- Modifications of the *Minecraft* code, called mods, add a variety of gameplay changes, ranging from new blocks, new items, new mobs to entire arrays of mechanisms to craft.

The Minecraft logo, featuring the word "MINECRAFT" in a stylized, blocky, 3D font with a dark grey and light grey color scheme.

searched-keywords-youtube-2017	
Most Searched keywords on youtube 2017	
▪ Music	(789 Million)
▪ Songs	(453 Million)
▪ Minecraft	(84.3 Million)
▪ Movies	34 Million)
▪ Kids video	(22.2 Million)
▪ funny scary pranks!	(23 Million)
▪ Funny Prank Videos	(11.7 Million)
▪ Happy	(58.7 Million)

<https://www.surjeetthakur.com/searched-keywords-youtube-2017>

Java & Games: Minecraft

- Real-world data in Minecraft from the UK Ordnance Survey:
 - <http://www.ordnancesurvey.co.uk/innovate/developers/minecraft-map-britain.html>
- How to make mods:
 - http://minecraft.gamepedia.com/Mods/Creating_mods

To learn a little more...

- Gamedev Stack Exchange:
<http://gamedev.stackexchange.com/>
- Gamedev.Net:
<http://www.gamedev.net/page/index.html>
- Gamesutra:
 - <http://www.gamasutra.com/>