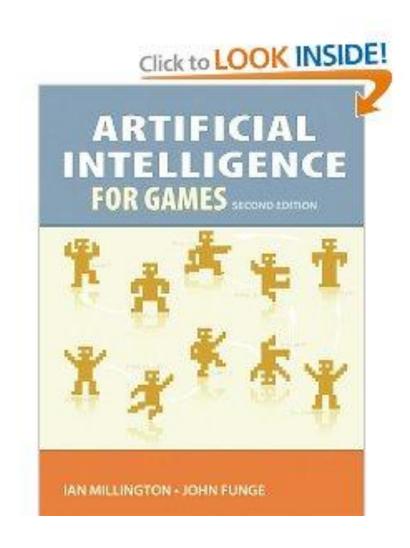
Framework pre multiplayer 3D RPG hry s podporou umelej inteligenice postáv

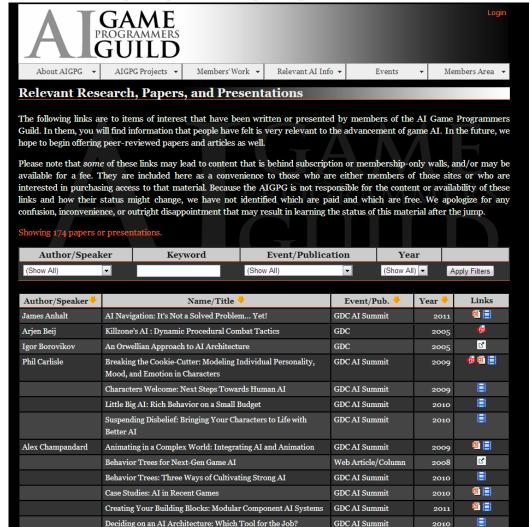
Prezentácia zdrojov

Artificial Intelligence for Games



Al Game programmers guild

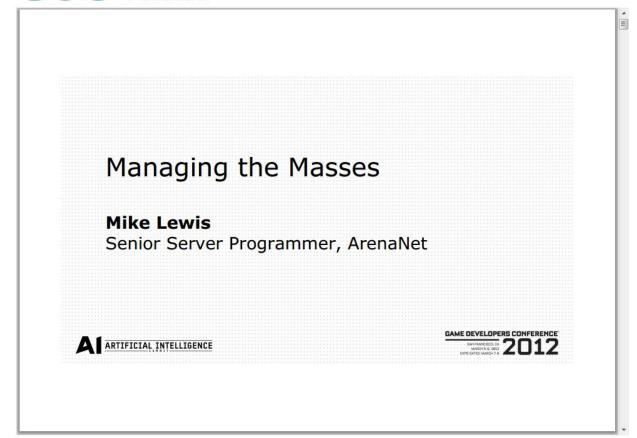
http://gameai.com/papers.php



Al in MMOs

http://gdcvault.com/play/1015872/Managing-the-Masses-Crafting-Al

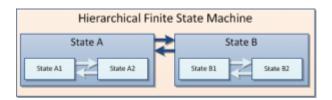
GOC Vault

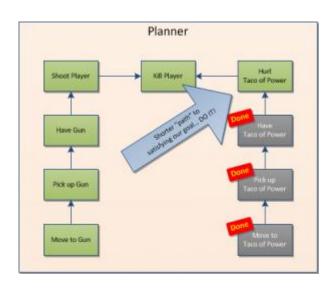


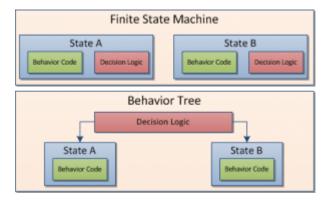
Al Architectures

http://intrinsicalgorithm.com/IAonAI/2012/11/aiarchitectures-a-culinary-guide-gdmag-article/ (<u>Game Developer Magazine</u> August, 2012)

Al Architectures Pros and Cons		
Architecture	Pros	Cons
Ad-hoc Rules	Minimal set-up	 Gets unwelldy past the most basic behaviors
Finite State Machine (FSM)	Easy to understand, build	Transitions between states get hard to manage with more behaviors
Hierarchical FSM	Hierarchy helps cluster behaviors Easy to understand, build	Transitions still can get difficult to manage
Behavior Tree (BT)	Separates decision logic from state code Easy to understand, build, edit	Hard-coded priorities of behaviors
Planner	Al "discovers" solutions on the fly Handles unique situations better Easy accommodates new actions	Some loss of designer control "Replanning" can be processor-intensive
Utility-based System	Al constantly weighs all actions Handles unique situations gracefully Allows for variation in behavior	Some loss of designer control Harder to design, edit, and tune
Neural Network	Able to "learn" how to play Can be set up relatively quickly	Complete loss of designer control Nearly impossible to edit or tune









Bachelor's thesis in computer science spring 2008

Al-controlled life in Role-playing games

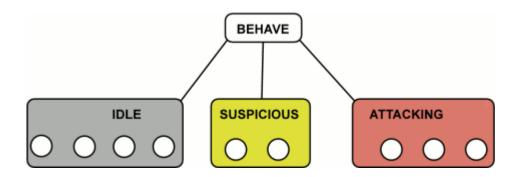
by Bertil Jeppsson DV1303

supervised by Johan Hagelbäck

http://www.bth.se/fou/cuppsats.nsf/all/91f4ce512fb90b71c12574650047f273/\$file/bachelor_thesis_revised_bertil_jeppsson.pdf

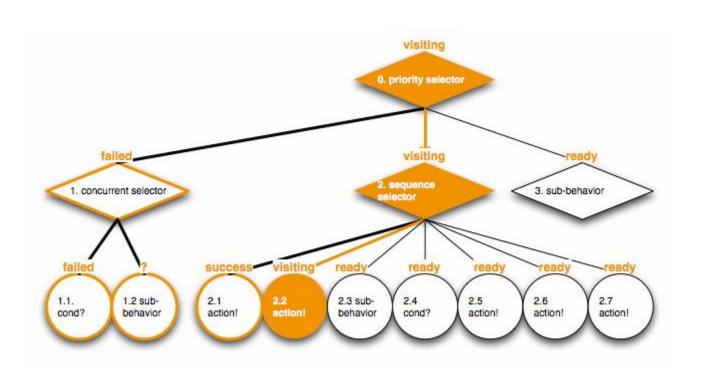
Understanding Behavior Trees Alex J. Champandard on September 6, 2007

http://aigamedev.com/open/article
/bt-overview/



Introduction to Behavior Trees

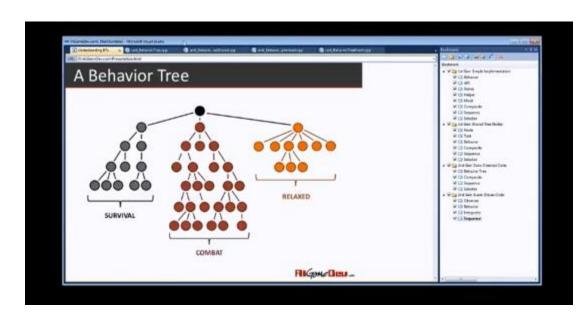
http://bjoernknafla.com/introduction-to-behavior-trees



Understanding the Second Generation of Behavior Trees and Preparing for Challenges Beyond

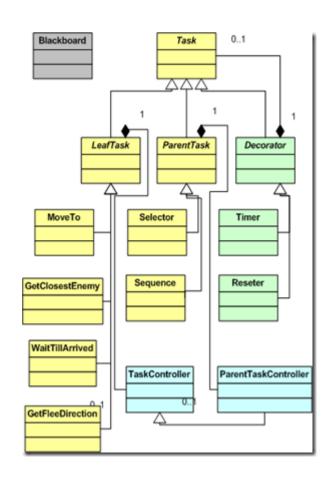
http://www.youtube.com/watch?v=n4aREFb3

<u>SsU</u>



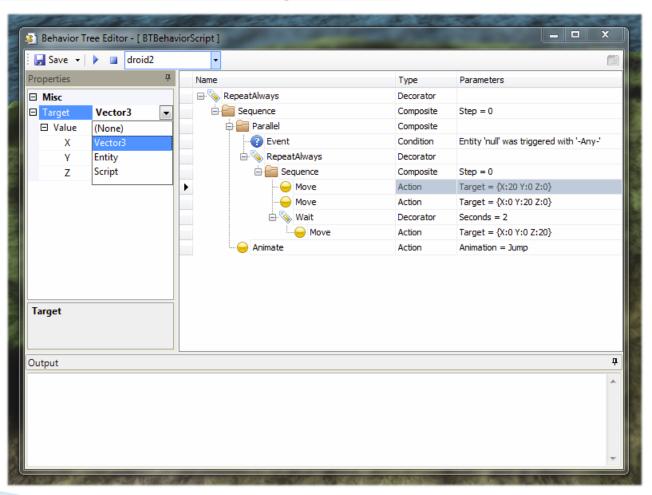
BT Implementation

http://magicscrollsofcode.blogspot.sk/2010/12/behavior-trees-by-example-ai-in-android.html



Visual3D

http://game-engine.visual3d.net/wiki/behavior-tree-editor-state-machines-and-sequences



Neural network http://lbms03.cityu.edu.hk/studproj/ee/2007eecyk362.pdf

FINAL YEAR PROJECT REPORT



Department of Electronic Engineering

BEngCE-2006/07-SYY-31-BECE

AI Role Playing Game Development

Student Name: Chow Ying Kit Ricky

Student ID:

Supervisor: Dr. S.Y. Yuen Assessor: Dr. H.C. So