

## Some Areas Of Study And Research In Computer Science

•Human-Computer Interaction

-http://grouplab.cpsc.ucalgary.ca/

- http://pages.cpsc.ucalgary.ca/~ehud/Research.html
- Computer Graphics
  - http://jungle.cpsc.ucalgary.ca/
- •Information Visualization
  - -http://innovis.cpsc.ucalgary.ca/
- •Databases

-http://www.adsa.cpsc.ucalgary.ca/

- •Computer theory
  - http://pages.cpsc.ucalgary.ca/~higham/Research/research.php
  - http://www.cpsc.ucalgary.ca/Research/qcc.php/

This list provides only a brief introduction to the different areas of Computer Science and is far from comprehensive: For a more updated list: <u>http://www.cpsc.ucalgary.ca/Research/</u>

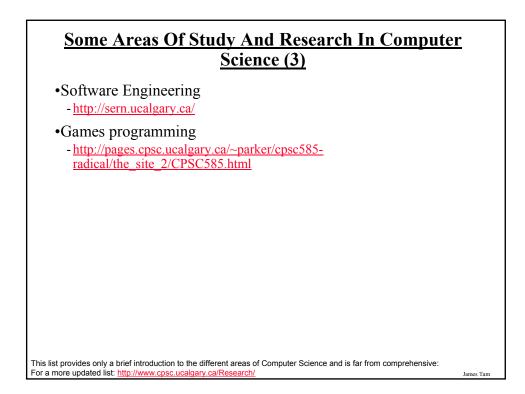
#### James Tam

#### Some Areas Of Study And Research In Computer Science (2)

•Computer networking and distributed systems

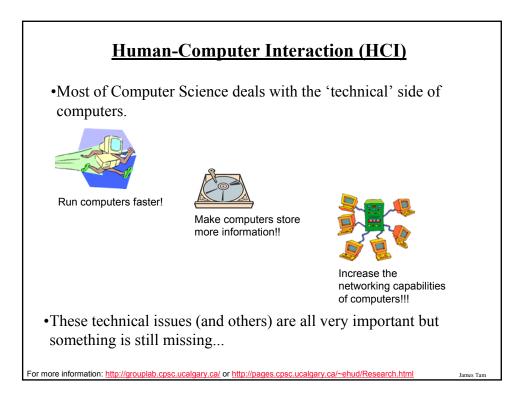
- -http://grid.ucalgary.ca/
- -http://www.westgrid.ca
- http://pages.cpsc.ucalgary.ca/~mahanti
- •Simulations
  - -http://warp.cpsc.ucalgary.ca/
- •Artificial Intelligence
  - http://pages.cpsc.ucalgary.ca/~jacob/AI/
  - http://pages.cpsc.ucalgary.ca/~denzinge/
  - http://pages.cpsc.ucalgary.ca/~kremer/
- Computer Vision
  - http://pages.cpsc.ucalgary.ca/~parker/DML/welcome.html
  - http://vma.cpsc.ucalgary.ca/

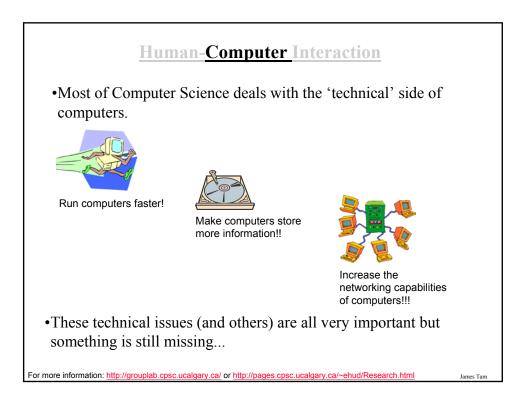
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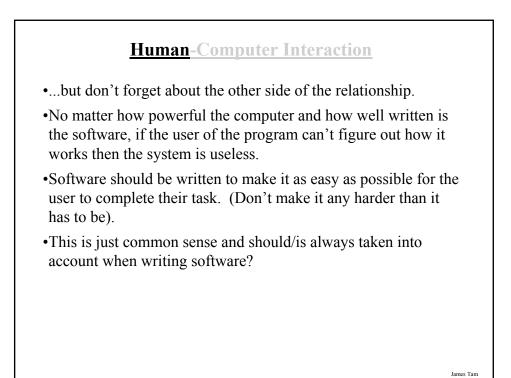


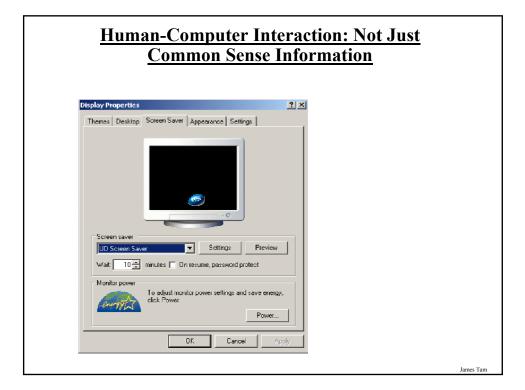
## <u>Areas Of Computer Science That I Will Talk About</u> <u>Today</u>

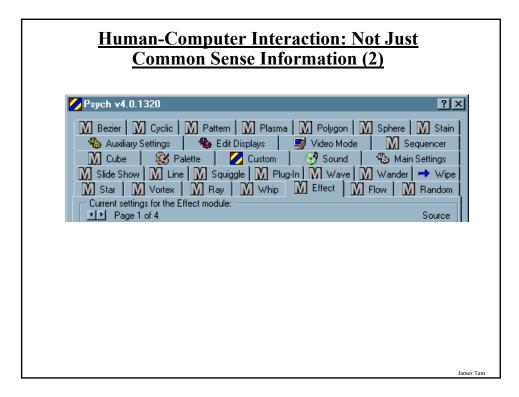
- •Human-Computer Interaction
- •Artificial Intelligence
- •Computer Vision
- •(Extra bonus area?)

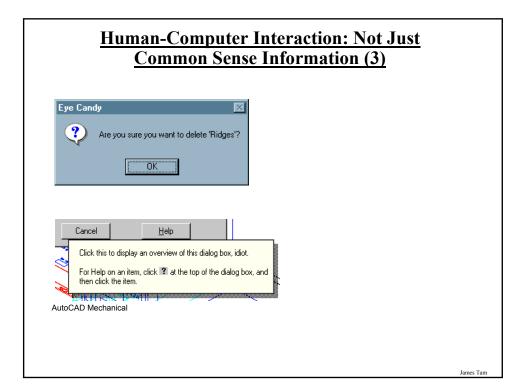




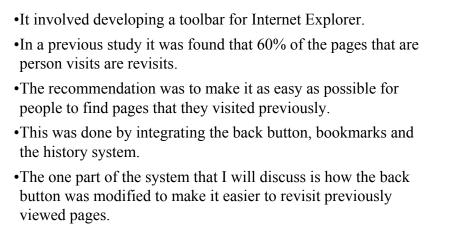




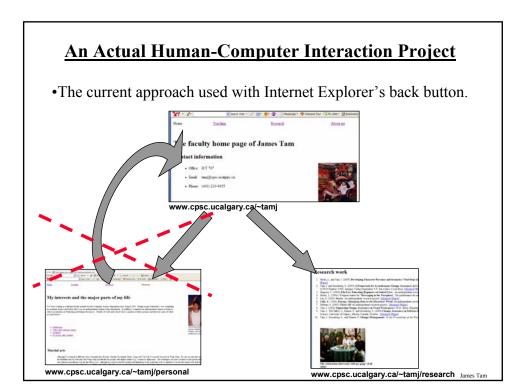


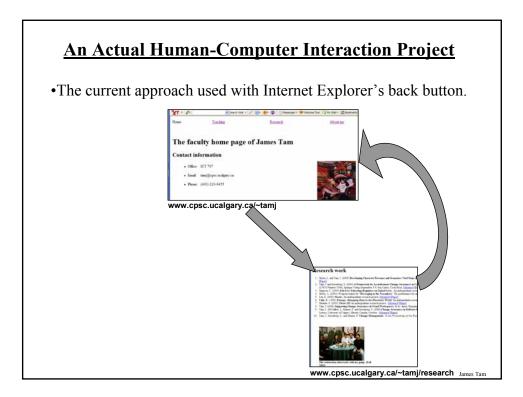


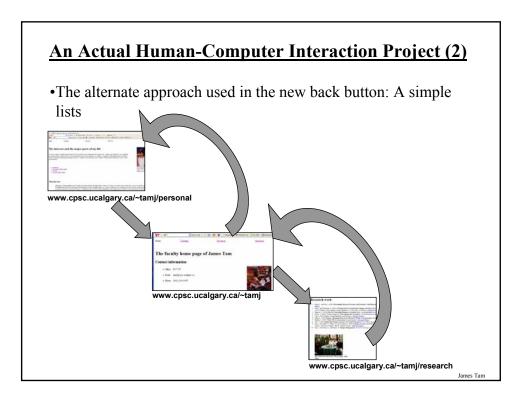
## Human-Computer Interaction: An Actual Research <u>Project</u>

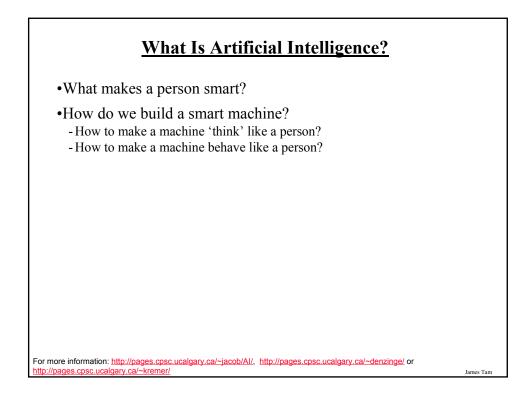


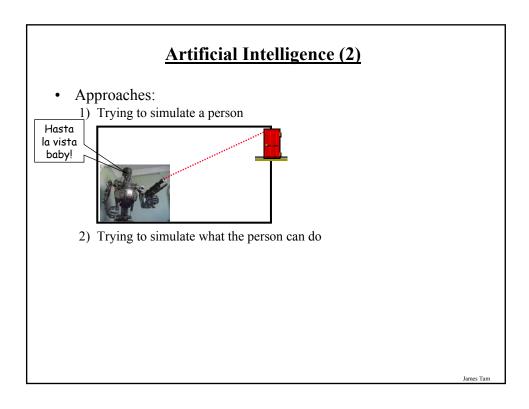
For more information: http://grouplab.cpsc.ucalgary.ca/papers/2001/01-Kaasten.MSc/kaasten-msc-01.pdf

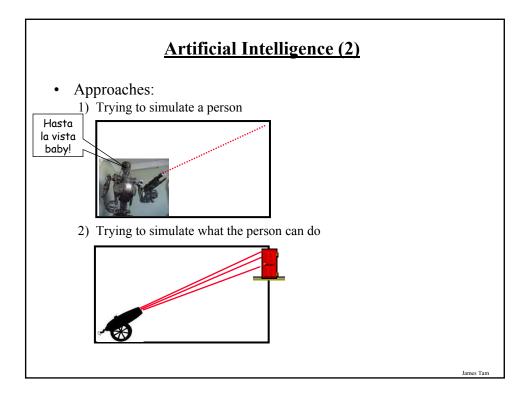


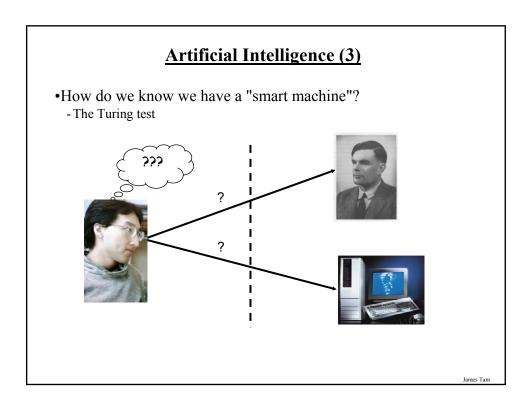








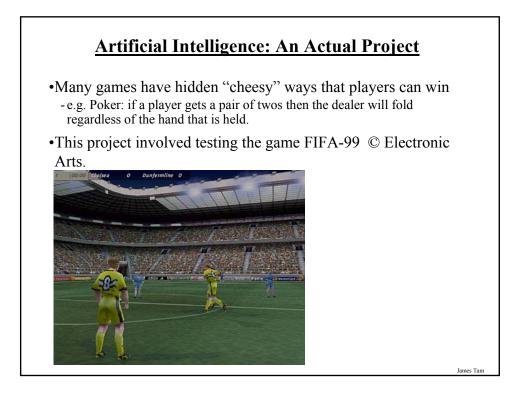




# Artificial Intelligence (4)

•Much work still needs to be done



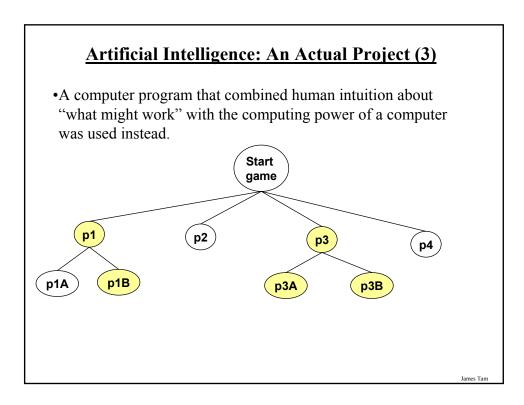


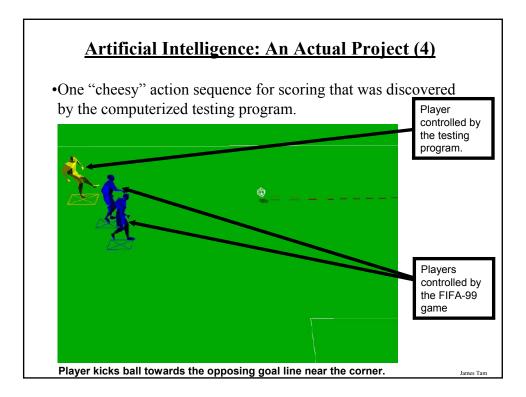
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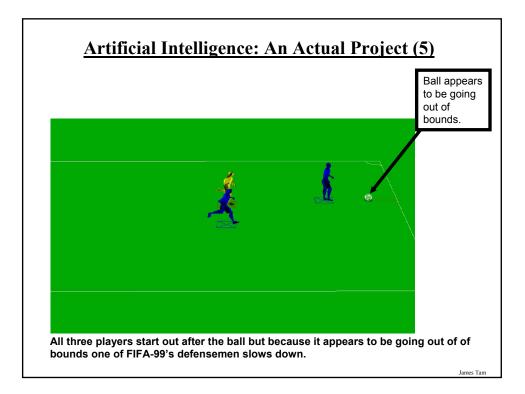
# Artificial Intelligence: An Actual Project (2)

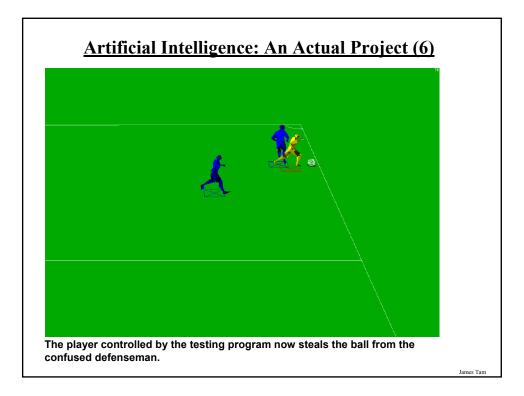
•With this game a lucky series of combinations by the human player may allow him or to her to easily and repeatedly score goals on the team controlled by the computer controlled team.

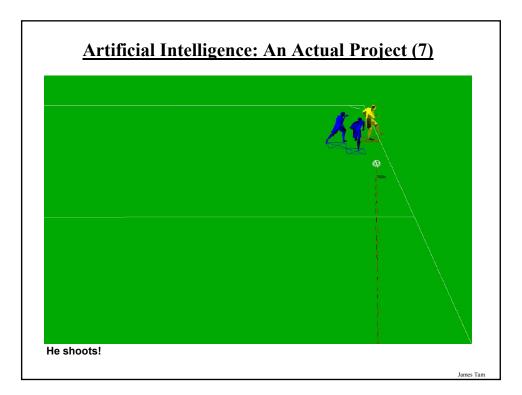
- •Using a person to attempt the entire possible set of combinations that may be attempted in the game isn't feasible.
- •Even using a computer to try all the combinations will take too long.

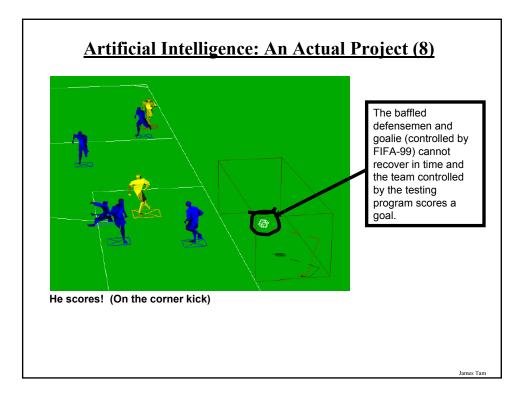


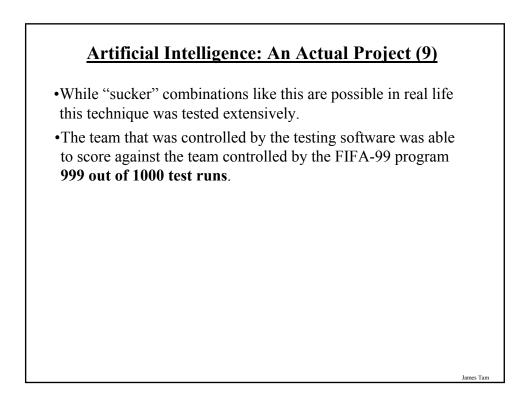


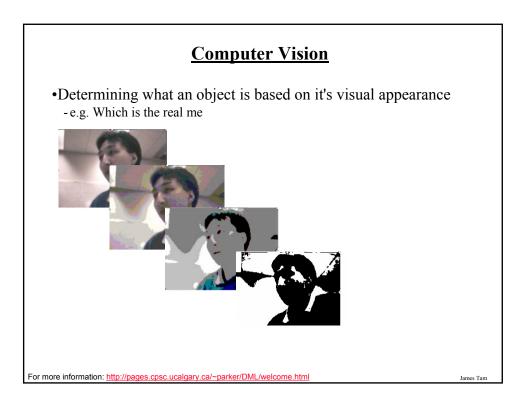


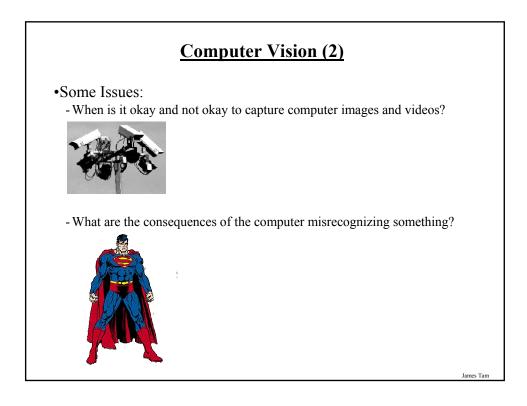




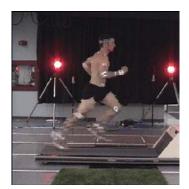




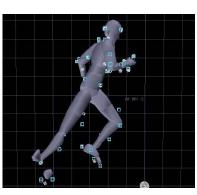




# <u>A Computer Vision Project: Video Analysis Of</u> <u>Runners</u>



Collecting the raw data



Computerized version of the raw data

James Tam



