

# Learning to Program WITH Alice

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# The Alice Software

- A 3D interactive animation environment
- A tool for teaching fundamental programming concepts
  - object oriented
- Developed at Carnegie Mellon University over a decade ago



# The Alice Software



# Programming with Alice

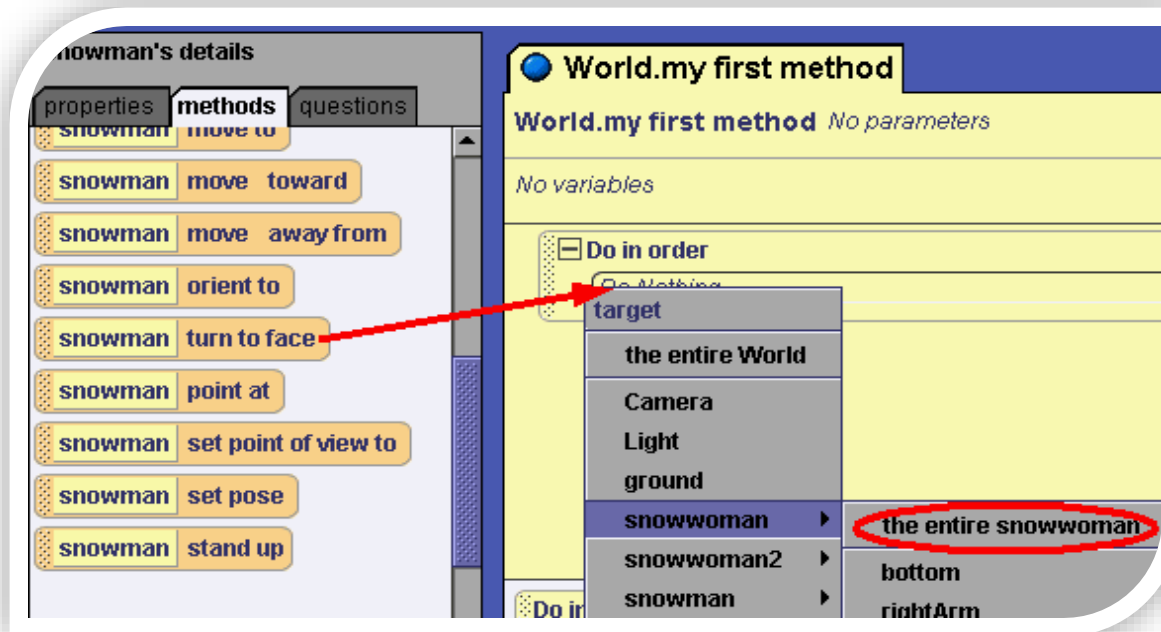
**Alice is a “free” public service  
with many free resources.  
It is sponsored by companies like:**





# Learn Programming Using The Alice Approach

- Alice uses **3D graphics** to engage students
- It has as a “**smart**” **drag-and-drop editor** that prevents common syntax errors
- Alice Appeals to a **wide audience**



# Key Alice Features

- Makes **objects** something students can see and relate to



- Has a **java syntax mode** to ease the transition to C++/Java/VB.net



# **Learn Programming Using The Alice Approach**

## **Students Learn To Program Storytelling Animations & Create Interactive Computer Games**

This Course is NOT threatening; Alice builds confidence in learning the basic fundamentals of computer science!!

- With Alice, The sky is the limit!



# Some Schools Using Alice Since 2003

- Bucknell University
- California Lutheran University
- California State University at Humboldt
- Camden County College
- Carnegie Mellon University
- Clemson University
- Colorado School of Mines
- Community College of Philadelphia
- Cornell University
- Duke University
- Georgetown College
- Haverford College
- Ithaca College
- Manor College
- Mississippi Valley State University
- Plymouth State University
- Saint Edward's University
- Saint Joseph's University
- Saint Lawrence College
- San Diego State University
- Sierra Nevada College
- Southwestern University
- Tompkins Cortland Community College
- University of Colorado
- University of Illinois
- University of Mississippi
- Virginia Tech
- And several high schools





# Website & Program Overview

- **Lets take a look at the resources available on the web!**

– <http://www.alice.org>



# An Alice Software Demonstration

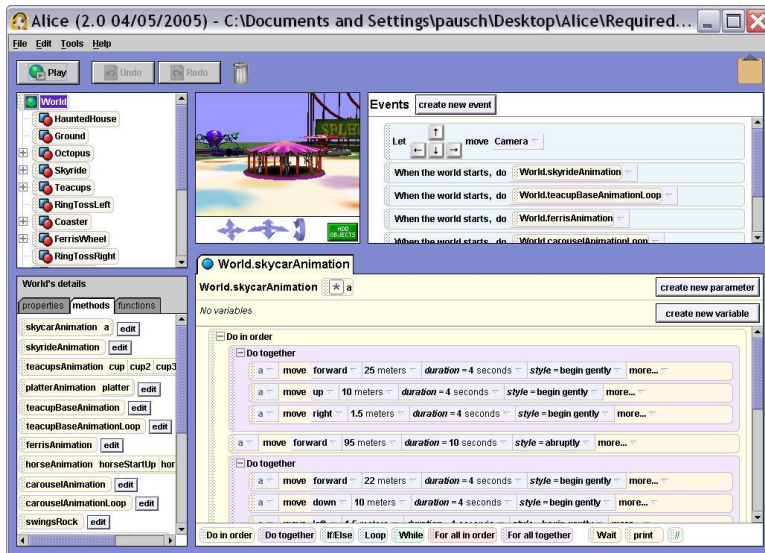


# Some Sample Projects

- **Storytelling - “The Tortoise & The Hare”**
- **Storytelling - “Jesse’s Girl”**
- **Videogame – Ringboat Rally**
- **Videogame – Flying in Space**
- **If time: Storytelling Video Game - Zombie**



# Questions?



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Portions of this presentation provided by Carnegie Melon University

