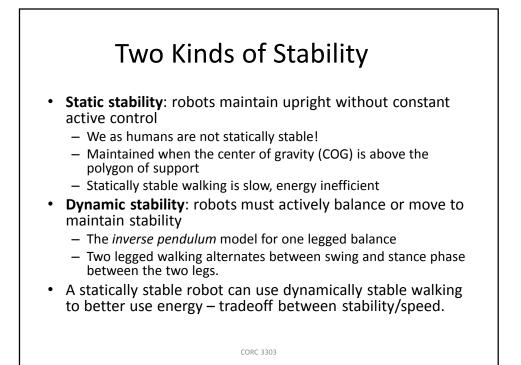
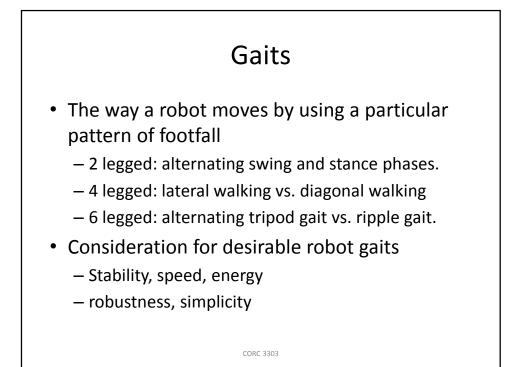


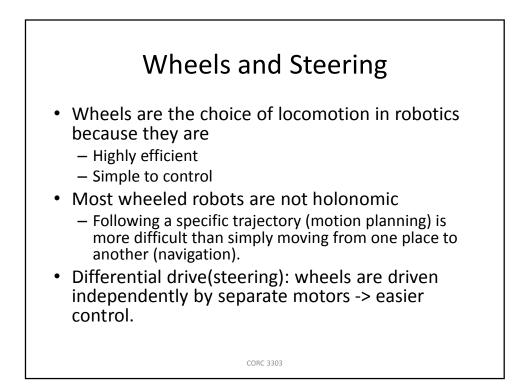
Modes of Locomotion

- Legs: walking, crawling, climbing, jumping, hopping etc
- Wheels: rolling
- Arms: swinging, crawling, climbing
- Wings: flying
- Flippers: swimming
- Most common, legged vs. Wheeled
 - Wheeled: most efficient use of power, low DOFs.
 - Legged: large DOFs, challenge of stability.

CORC 3303

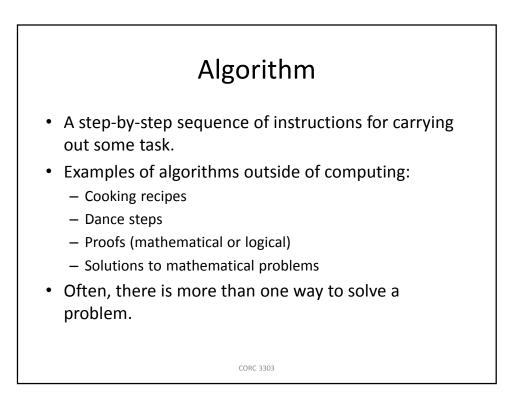




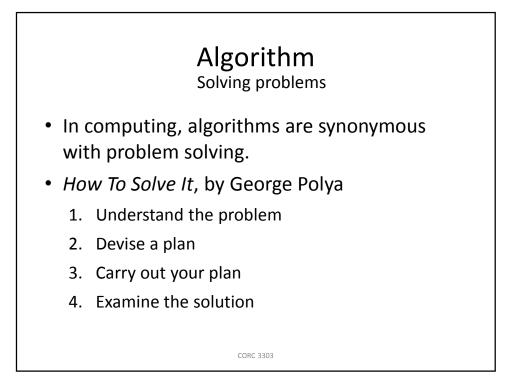


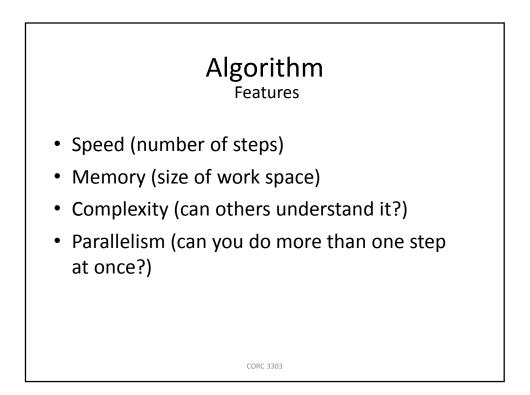
Go Beyond Locomotion - Dancing Automaton

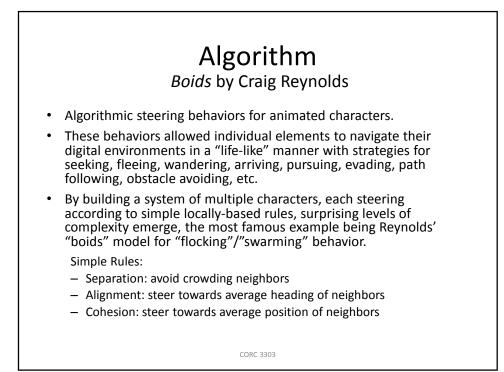
- One or more robots come together with music, dressed in costume and moving in creative harmony.
- Need to develop an **algorithm**.
- Robot will be **multitasking**.

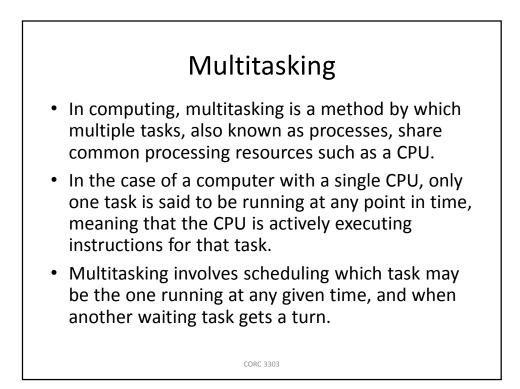


CORC 3303









Multitasking

The RCX using RoboLab

- Each program can have up to 10 tasks, from which one is the main task.
- The execution of the program jumps from one active task to another.
- The act of reassigning a CPU from one task to another one is called a **context switch**. When context switches occur frequently enough the illusion of parallelism is achieved.

CORC 3303