CS515: Computer Graphics

Semester I, 2020 – 2021

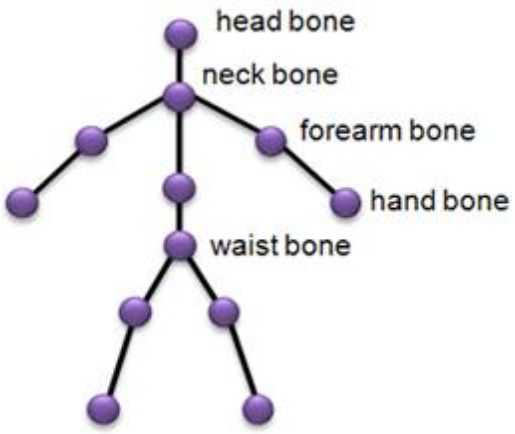
Skeletal Animation

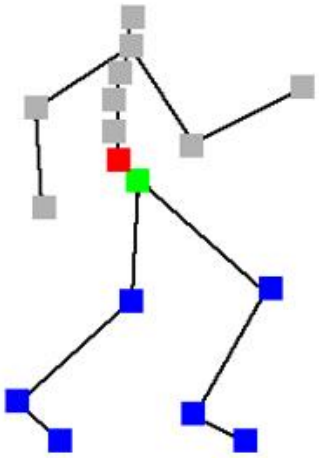
- **Aim**:
  - To create a short skeletal animation!

- **Introduction**
  - This is an open ended project and no specific instructions. So, have fun working on this and show off your creative skills!

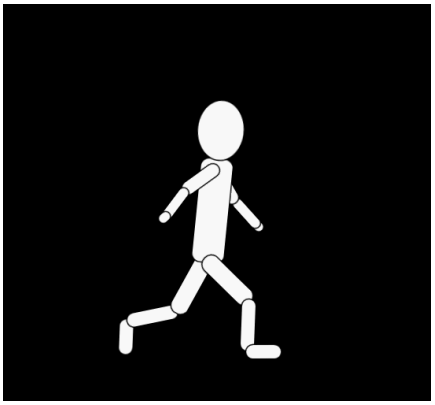
- **Task:**
  - You already have the required skills to create a basic animation (remember the teapot modelling?)
  - We also discussed basic animation techniques in class on that focus on making SMOOTH and REASLISTIC animations!
  - Goal of this project is to create a simple skeleton using lines /circles / cylinders (or something more fancy if you like…) and give it some smooth motion…

Examples:





You can find more examples by searching for Skeletal Animation in Google. Browse around to get some ideas!



- Once you have the basic skeleton structure ready, give it some motion! Try to make it **walk**, **dance**, etc.
  - Basically, have your skeleton do something that looks cool!
  - Animation should be at least 30 seconds long, preferably closer to 1 minute.

- Some other things to try:
  - Watch some videos on youTube to get some ideas …
    - Example: https://www.youtube.com/watch?v=47AK4mUIv7I
  - Use key board input to move the skeleton in a particular pattern
  - Use texture patterns to create background and/or a more interesting path
  - Add background music to make the animation more entertaining

- **Submitting your work:**
  - All source files and make files as one tar-gzipped archive.
    - When unzipped, it should create a directory with your ID. Example: **2008CS1001–L9** (NO OTHER FORMAT IS ACCEPTABLE!!! Case sensitive!!!)
    - ***Negative marks if the TA has to manually change this to run his/her scripts!!***
  - Source files should include the following: (Case-Sensitive file names!!)
    - README (Should describe clearly what your skeleton does, how to run the program, etc.)
    - `Skeleton.exe` should be name of the executable
    - `Skeleton.py should contain the main program`
    - Any additional files you need to create
  - ***Negative marks for any problems/errors in running your programs***
  - Submit/Upload your project to Google Classroom