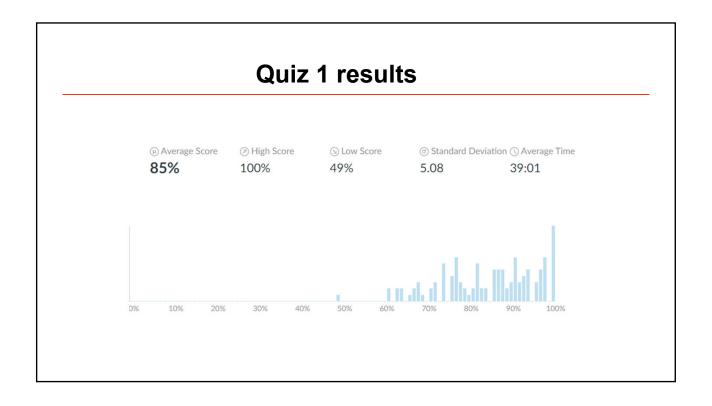
## **CPSC 314 Computer Graphics**

Dinesh K. Pai Lecture 9: Hierarchies, Rotations

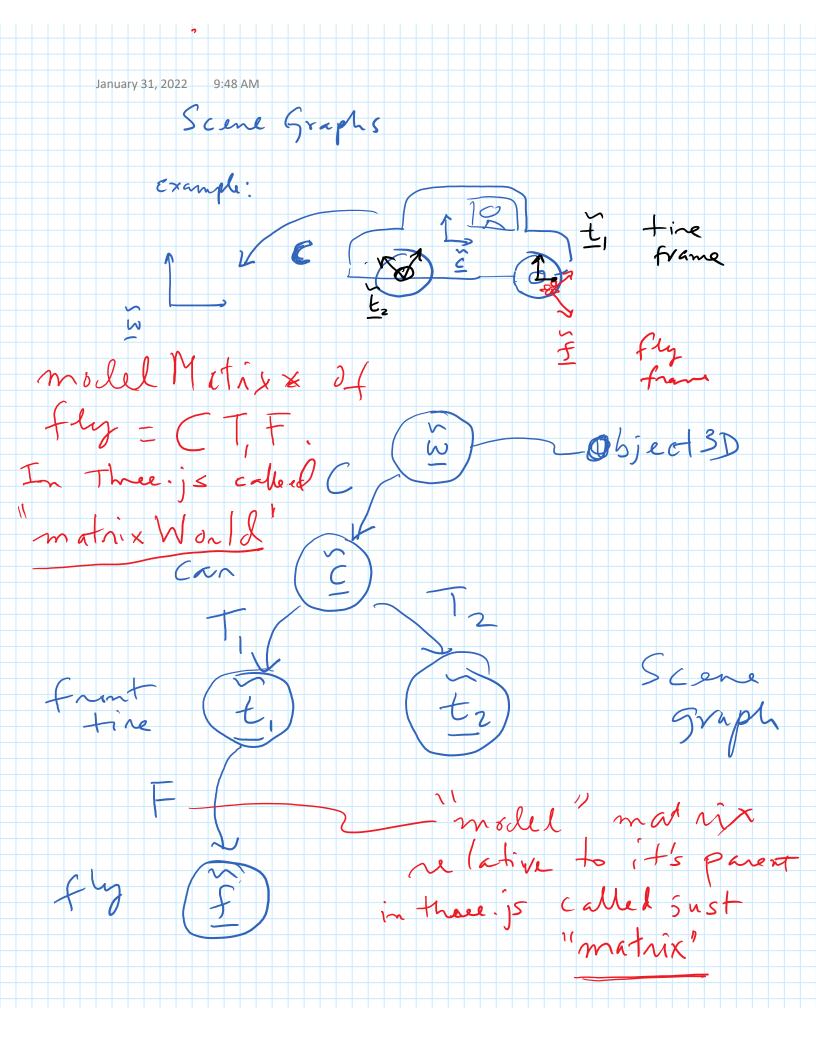
## **Preliminaries**

- Announcements
  - A1 face to face grading starts today.
  - A2 was released on Friday, on schedule.
- Today: wrapping up transformations
  - Quiz 1 summary. Save any questions to end of class or Piazza
  - A2 preview
  - Scene Graphs and Object3D
  - Mathematics of Rotation (Textbook Chapter 2.5)



## **Next Class**

 Rotation, Normals, Cameras and Projection Read Chapter 10



January 31, 2022 10:34 AM In Three.js "Scene" = world Object3D" = node in Scene graph. Add an edge of the graph Object SD. all Mesh is a subclass of Object 3D

January 31, 2022 & Specifying the transformation matrix A standard way (in Three. is to) is to Specify, Cepanduly, T translation (position) R notation S scale The local matrix assumes a fixed ordu M = TRS (1) Translation

