Interactive Graphics

Homework

Deadline: May 31st, 2016

Download the file Homework.zip from the course homepage in Piazza https://piazza.com/uniroma1.it/spring2016/1044398/home

There are 4 files:

basic-objects.js: contains the definition of the primitives used in the example
gl-matrix.js contains the utility functions on matrices and vectors

3. HW.html Main File

4. simple-rotator.js contains the code for the rotator

You only need to modify the HW.html file. You need to complete/modify the file with the code needed to:

- 1. Create a fully assembled bicycle
- 2. Create a tree
- 3. Create a scene with two bicycles and 4 trees
- 4. Modify the vertex and fragment shaders to implement Phong shading with 1 directional light (moving so to simulate the sun) and 2 positional lights positioned on the front of the bicycles
- 5. (optional) Add textures on the objects (trees, disc, etc...)