Advanced Graphics

Lab 8 - Loading models and using shaders

Maximum points: 10

Due: Demo before the end of the lab. No submissions

Objective for this lab:

One mark for esthetics

• To be able to read and understand code

½ mark for coding styling



- To load external models
- To create a skybox
- To use Threejs™ built-in shaders
- Able to turn on/off shader via dat.gui
- The models you need and the shaders is specified by the table at the end of this document
- Do all the assigned problems on your own.

You will obtain the images for the skybox and models from the appropriate url (Threejs.org)

You will see sample code for the shaders from the textbook code \\icet1vm\1vm\npershad\COMP392

https://threejs.org/examples/

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Student Name	Model	Skybox	Shader
Afong, Jonathan	/loader/amf (rook)	/loader/ctm/material	Sepia, FilmPass
Alexandre, Frederico B.	/loader/collada (girl)	/loader/gltf	Bloom, GammaCorrection
Bindhray, Jobandeep S.	/loader/ctm (face)	/materials/cubemap	Colorify, HueSaturation
Cai, Zhaoning	/loader/gltf (machine)	/material/cubemap/balls/refraction	BrightnessContrast, vignette
Campbell, Kristian N.	/loader/gltf/extensions (boombox)	/material/cubemap/dynamic	rbgShift, LuminosityHighPass
Chavda, Purvi D.	/loader/mmd/pose (girl)	/materials/envmap	sobelOperator, vignette
Cheang, Heng	/loader/ply (angle + dolphin)	/materials/shaders/fresnel	FilmPass, rgbShift
da Silva, Rodrigo J.	/loader/vrm (girl)	/loader/gltf/extensions	BloomPass, Colorify
Desai, Jalpen D.	/materials/bumpmap (face)	/shaders/ocean	GammaCorrection, DotScreenPass
Fernandez, Aldrin B.	/materials/nodes (teapot)	/water	Sepia, sobelOperator
Gururaja, Megha	/loader/amf (rook)	/loader/ctm/material	Sepia, FilmPass
Heraldo, Winston T.	/loader/collada (girl)	/loader/gltf	Bloom, GammaCorrection
Hunte, Gabriele C.	/loader/ctm (face)	/materials/cubemap	Colorify, HueSaturation
Koczkodaj, Winston	/loader/gltf (machine)	/material/cubemap/balls/refraction	BrightnessContrast, vignette
Koo, Brandon C.	/loader/gltf/extensions (boombox)	/material/cubemap/dynamic	rbgShift, LuminosityHighPass
Li, James	/loader/mmd/pose (girl)	/materials/envmap	sobelOperator, vignette
Lindner, Morgan W.	/loader/ply (angle + dolphin)	/materials/shaders/fresnel	FilmPass, rgbShift
Lovell, Jayce W.	/loader/vrm (girl)	/loader/gltf/extensions	BloomPass, Colorify
Ly, Aron	/materials/bumpmap (face)	/shaders/ocean	GammaCorrection, DotScreenPass
Mohsin, Mohammed	/materials/nodes (teapot)	/water	Sepia, sobelOperator
Nahapetyan, Sargis	/loader/amf (rook)	/loader/ctm/material	Sepia, FilmPass
Ngo, Trung Kien	/loader/collada (girl)	/loader/gltf	Bloom, GammaCorrection
Panchal, Shyam Aniruddha	/loader/ctm (face)	/materials/cubemap	Colorify, HueSaturation
Patel, Abhi P.	/loader/gltf (machine)	/material/cubemap/balls/refraction	BrightnessContrast, vignette
Patel, Raj J.	/loader/gltf/extensions (boombox)	/material/cubemap/dynamic	rbgShift, LuminosityHighPass
Popowski, Andrzej	/loader/mmd/pose (girl)	/materials/envmap	sobelOperator, vignette
Punia, Rekha	/loader/ply (angle + dolphin)	/materials/shaders/fresnel	FilmPass, rgbShift
Rao, Kashish	/loader/vrm (girl)	/loader/gltf/extensions	BloomPass, Colorify
Santiago, Lance Angelo A.	/materials/bumpmap (face)	/shaders/ocean	GammaCorrection, DotScreenPass
Sharma, Bhaskar	/materials/nodes (teapot)	/water	Sepia, sobelOperator
Singh, Sandeep	/loader/amf (rook)	/loader/ctm/material	Sepia, FilmPass
Sodha, Pruthvisinh J.	/loader/collada (girl)	/loader/gltf	Bloom, GammaCorrection
Stokes, Daniel	/loader/ctm (face)	/materials/cubemap	Colorify, HueSaturation

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Student Name	Model	Skybox	Shader
Sun, Yueyang	/loader/gltf (machine)	/material/cubemap/balls/refraction	BrightnessContrast, vignette
Tang, Jia Bin	/loader/gltf/extensions (boombox)	/material/cubemap/dynamic	rbgShift, LuminosityHighPass
Tripathi, Gaurav	/loader/mmd/pose (girl)	/materials/envmap	sobelOperator, vignette
Vargas, Marvin Jupiter R.	/loader/ply (angle + dolphin)	/materials/shaders/fresnel	FilmPass, rgbShift
Wright, Vincent	/loader/vrm (girl)	/loader/gltf/extensions	BloomPass, Colorify
Yoon, Sun Mi	/materials/bumpmap (face)	/shaders/ocean	GammaCorrection, DotScreenPass
Zhang, Yu Yi	/materials/nodes (teapot)	/water	Sepia, sobelOperator

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