

Course: 1030 – Modeling 1

# Homework #4

Homework Assignment #4 – Floating Islands

Due: Week 12 - 24 hours after the start of class

Worth: 15%

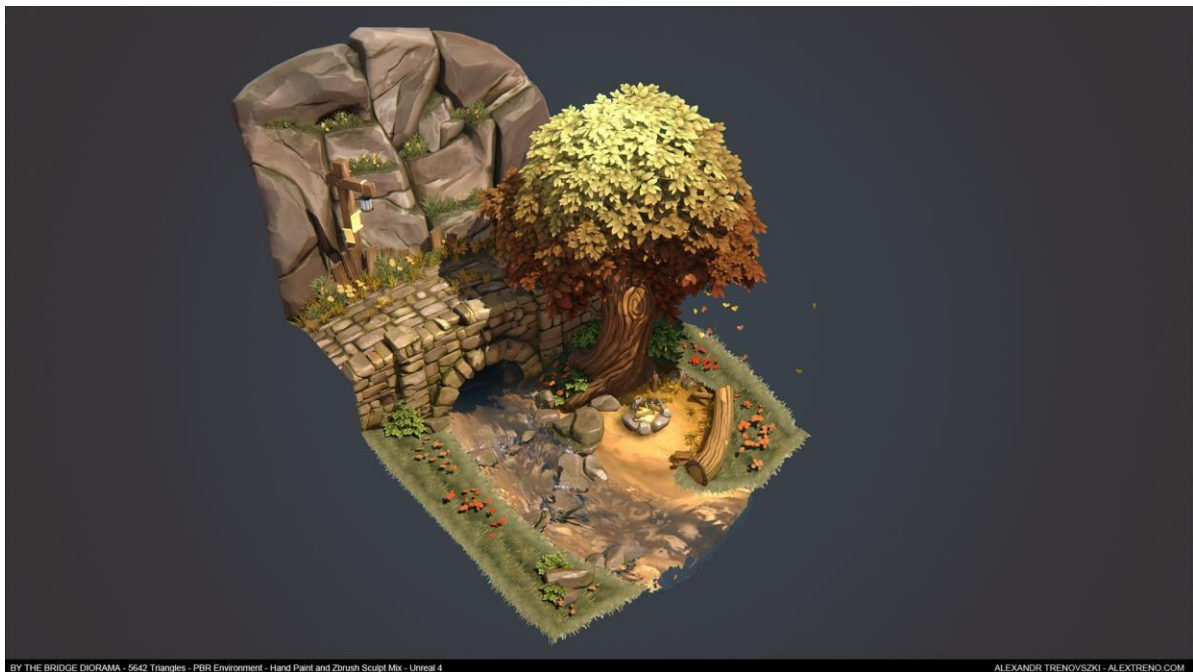
## Assignment Description:

From either your own original material or an existing source, choose at least one reference image in order to model out a simple exterior environment. This environment must have organic components that you will need to model and texture in, **however you need only apply an opacity map and base colors as needed and they are the only maps required for the scene.** You will use Zbrush to adjust/create two components of the scene: The tree(s) and the island that it is floating on. Finally, add in a basic lighting setup as we did in our previous class to provide overall scene illumination and remove full black shadows.

## Submission Components:

- **Dynameshed tree – Starting with geometry generated in 'Max, use Zbrush's Dynamesh function to combine all the mesh from the trunk and branches into a single object, and bring it back into Max**
- **Ground Cover – Two (2) different types of ground cover such as a combination of two of the following; bush, grass, vines, or flowers with accompanying original alpha and diffuse textures**  
**[Max resolution of 512x512]**

- Floating Island - The ground level of your scene sculpted and imported from Zbrush
  - 2 Versions:
    - The original high poly/full res version of the island
    - A Z-remesher version that has had its polycount reduced to under 25k polys
- A camera setup to take a “beauty shot” render of your scene
- Basic lighting – minimize full black shadows,



## Assignment Requirements:

### Elements

- Polygon placement – No floating or disconnected portions of your model when viewed from camera
- Technical – Tree trunk and branches are a single continuous mesh. Floating “island” has two resolutions, the original full res and a Zremeshed version that sits under 25,000 polys
- Ground Cover – Distributed throughout the scene with variations to structure, rotation and size

- Overall Appeal

## Submission:

**WARNING:** Students who upload late and miss the dropbox will be marked as a 0%

- Make a folder named = **LastName\_FirstName\_Homework4**
- **ZIP** the above folder **NOT RAR** (make sure it shares the same naming convention) = **LastName\_FirstName\_Homework4.zip**

### Folder Contents:

- LastName\_FirstName\_scene.max – Your 3DS Max scene with all your 3D assets
  - Your tree trunk and branches, Dynameshed into a single object
  - Your leaf domes/planes
  - Your islands, one at the original resolution, one at less than 25k polys
  - Your ground cover objects
- \*.png – your textures for your grass/bush/leaves
- LastName\_FirstName\_render.png – A beauty shot of your scene
- LastName\_FirstName\_reference.png – one key reference image

**PLEASE NOTE:** That your project will not be graded unless you adhere to what has been outlined for you in this document. Individual practices that were given to you during the semester are applicable here as well.

## Grading Rubric – worth 15%

<b><u>Essential Elements</u></b>	<b>No Submission</b>	<b>Needs Improvement</b>	<b>Basic</b>	<b>Proficient</b>	<b>Advanced</b>
<b>Polygon Placement</b>	No or incorrect submission	Tree has readily visible bare spots or leaves are not properly aligned, pieces appear to be floating, textures are larger than 512x512	Shows a general understanding of the concept of creating low poly geometry but is unable to apply it beyond the minimum requirements	Shows a firm understanding of the concept of creating low poly geometry, with no issues in terms of the structure of the tree and placement of the ground plane and vegetation	Trees and groundcover are complex or striking in overall form and silhouette
<b>Ground Cover</b>	No or incorrect submission	White “halos” around grass/leaf images, UV tiling issues,	Ground cover shows one or more of the previously mentioned issues, or is overly simplistic (un-tapered brush with no color variation), planes with no rotation or scale variation	Ground cover objects are well populated in the scene, and show a fair amount of variation	Groundcover is easily identified and resembles actual foliage in terms of: curvature, placement and formation, variety in terms of color and shape
<b>High Poly Sculpted Ground Plane</b>	No or incorrect submission	Low/no contrast or accuracy to the source image	Sculpting appears to be “melted” or with very little definition		Accurately emulates the reference image
<b>Overall Appeal</b>	No or incorrect submission	Does not meet expectations	Satisfactory	Meets expectations	Overall an appealing setup, potentially making use of additional geometry after the other criteria are met
<b>File Submission</b>	No or incorrect Submission – missing files, elements, naming conventions etc.	Missing many elements for submission ie. Naming convention, proper formats, etc.	Followed some directions – file name is correct, missing some elements in formatting	Followed most directions – file may be missing some details within submission	Followed all directions – Submission contains all elements and named correctly in correct formats
<b>Followed Directions</b>	Did not follow any directions	Followed a few directions	Followed some directions	Followed most directions	Followed all directions

## Grading continued...

Detailed specifications will be given on a per-class basis. You are encouraged and expected to ask questions. If you are absent it is your responsibility to check with other students, the instructor and course content on FOL.

### Additional Information:

Missed tests/exams will not be rescheduled without some valid evidence of some important event over which the student has no control (e.g., Court appearance, death in the family). Missed tests or exams, therefore, can receive a zero. The students are advised to notify the professor prior to missing the test.

Students are expected to hand in all assignments to the course instructor on the due date, and all assignments must be submitted in the format specified by the instructor (e.g., on FOL, in printed form, on a specific lab computer, etc.); assignments will not be accepted in any format other than that specified.

Late assignments will not be accepted, nor will make up test or assignments be permitted, without some valid evidence of some important event over which the student has no control (e.g., documented illness, death in the family). Missed tests or assignments, therefore, will receive a mark of zero. Late assignments and make-up tests will only be permitted following the submission of adequate documentation acceptable to the instructor (e.g., a doctor's note). Students are advised to notify the instructor prior to missing an assignment due date or a scheduled test.

Immediately upon return from an illness/absence in which a test or assignment has been missed, the student is responsible for contacting the course instructor to discuss the problem. The instructor will make arrangements for any student deemed eligible. The alternative test/assignment will be of equal value to the one missed with no grade penalty. The timeline and due dates will be determined by the course instructor.

At mid-term, any unsatisfactory results will be reported to the student.

This course may be revised by the professor with suitable notification to the students. Students are responsible for making arrangements to pick up missed handouts, assignments and course announcements from classmates.

Plagiarism (e.g., failure to acknowledge sources used, submitting another student's work under your name, or producing work for another student to submit) is a serious academic offence that shall result in appropriate penalties, to be determined at the discretion of the course professor in consultation with the chairperson of the Communication Arts division. The penalties shall range from failure of an assignment to possible failure of the course. Students shall not make the assumption that any provision will be made by the professor to permit the student to rewrite or redo failed assignments.