_**final**project

Project:
One of the most productive ways to pursue a coding project/methodology is to define a specific design problem/inquiry that it can be applied to. I am open to the development / demonstration of your expertise in coding by applying it to either a current or past studio problem/subject/fragment that would warrant further exploration through a coding method. Alternatively you could begin by delving deeper into one of the methods or related methods that were covered in the exercise portion of the course:

Complex Generative Systems: Agents, Flocking, Recursion, or Cellular Automata…
Complex Geometric Systems: Tetrahedral Based, Vornoi Tiling, Meshes, Point Grid Matrices, or Branching…

Projects should result in the production of three components: a series of images, an animation, and a physical artifact (i.e. 3D printing, zund or laser cut and assembled material, etc…)

Weekly Meetings:
As the projects develop you should make every effort to meet with me at least once a week to discuss your progress. Those meetings can occur either during class time or office hours. Use the following sign-ups to select a slot:

Class Time sign-up
Office Hours sign-up

Reading/Reference:
Gary William Flake, *The Computational Beauty of Nature*. (Complete book on Canvas.)
Daniel Shiffman, *The Nature of Code*. (Book available online: thenatureofcode.com)
Joy Ko and Kyle Steinfeld, *Geometric Computation: Foundations for Design*

Project Proposal Pin-up Critique:
On Mar 17 I would like everyone to post and be prepared to present a proposal (more developed and organized than the WIP) for their final project to the Gallery on Canvas. This can be any combination of things: PDF of sketches, rhino models in progress diagrams, and snippets of working code in RTF format with sufficient comments to point out what you are trying to do. In the description section write a complete explanation of your project proposal. Also write at least 2 questions for reviewers. These proposals will be presented and discussed by the class during the Mar 17 session. Prepare a presentation to be done through screen sharing using whatever technology you're comfortable with: PowerPoint, Miro, PDF, animations, Rhino – running code, etc… (I can set-up a Miro board for the class if we decide we all want to use that.) We may decide to do this in two sessions.

Mid-Review:
On Mar 31 – same format of presentation as project proposal. We will have outside critics. We may decide to do this in two sessions also.

Final Deliverables:
Three primary requirements; PDF slide presentation, must contain a pseudo code diagram explicating the operation of the code (Examples and explication of Psuedo code diagrams will be given), an animation of at least 30 seconds in length of the final code in operation, and the final code. Exact format for displaying the final work will be developed as the projects progress, but will most likely involve some combination of Miro Board and screen sharing. Suggestions of alternative methods are welcome.

Schedule:

W Mar 3	7.	**Final Project** / WIP discussion / CA wrap-up Upload Working Code
M Mar 8	8.	WIP discussion / Final Project Development Meetings
W Mar 10		Final Project Development Meetings / Upload Working Code
M Mar 15	9.	WIP discussion / Final Project Development Meetings
W Mar 17		**Proposal Pin-up**
M Mar 22	10.	**Proposal Pin-up**? / Final Project Development Meetings
W Mar 24		Final Project Development Meetings / Upload Working Code
M Mar 29	11.	WIP discussion / Final Project Development Meetings
W Mar 31		**Mid-Review**
M Apr 5	12.	**Mid-Review**? / Final Project Development Meetings
W Apr 7		Final Project Development Meetings / Upload Working Code
M Apr 12	13.	WIP discussion / Final Project Development Meetings
W Apr 14		Final Project Development Meetings / Upload Working Code
M Apr 19	14.	WIP discussion / Final Project Development Meetings
W Apr 21		**Final Review**

(Schedule is subject to change @ instructor's discretion)