

University of the Cordilleras
College of Information Technology and Computer Science

Thesis Writing 2
Report for the Conducted Webinar

Name of Students: 1. Clemente, Tyra P.
2. Sabino, Tyraxl D.
3. Chantioco, Charles

Title of the Webinar: "The Key Arsenal for Efficient 3D Creation: Unlock the Power of Procedural Modeling"

Date and Time of the Webinar: April 12, 2024, at 10 AM.

Webinar Link/Details:

Meeting ID: 845 7423 5872

Passcode: procgen

<https://us06web.zoom.us/j/84574235872?pwd=OjQiQq5zilPJ0scbW1p5gTyqHgVzEJ.1>

Outline of the Topics Covered:

- I. Traditional 3D modeling and Procedural Modelling
 - a. Definitions of 3D Modelling
 - i. Research about 3D Modelling
 - b. Techniques of 3D Modelling
 - i. Polygonal Modelling
 - ii. Nurbs Modelling
 - iii. Sculpting
 - c. Application of 3D Modelling
 - i. Entertainment
 - ii. Design and Engineering
 - iii. Education
 - d. Challenges of 3D Modelling
 - i. Precision and Detail
 - ii. Technical Skills
 - iii. Time-Consuming

- e. Definition of Procedural Modelling
 - i. Research about Procedural Modelling
 - ii. Key Feature of Procedural Modelling
 - iii. Application of Procedural Modelling
- II. Procedural Modeling Techniques
 - a. Cellular Automata
 - i. The ruleset for grid map generation
 - b. L-system
 - i. Founder Astrid Lindenmayer
 - ii. Algorithm and ruleset
 - iii. Discussion of the Dragon Curve generation
 - c. Particle System
 - d. Voronoi
 - i. United States of Voronoi
 - ii. Try voronoi link
 - e. Perlin Noise
 - i. Minecraft using Perlin noise
 - f. Fractal Algorithms
 - g. Disney Animation Studio Zootopia and Procedural Modeling
 - i. Animation studio problem with the character rigging
 - ii. Houdini
- III. The Key Arsenal for Efficient 3D Creation
 - a. L-system
 - i. Base Study by Isabella Antoniuk
 - ii. Nodes and Parameters in Houdini
 - iii. Demo
 - iv. Sample Floor Layout
 - b. Voronoi
 - i. Base Study by Shenrun Pan
 - ii. Demo
 - c. Thesis Presentation
 - i. Procedural Techniques used
 - ii. Model Showcase
 - d. Benefits of Procedural Modeling
 - i. Efficiency and speed
 - ii. High degree of control and flexibility
 - iii. Realism and Detail
 - iv. Reusability and Consistency
 - v. Cost-effectiveness

List of Participants:

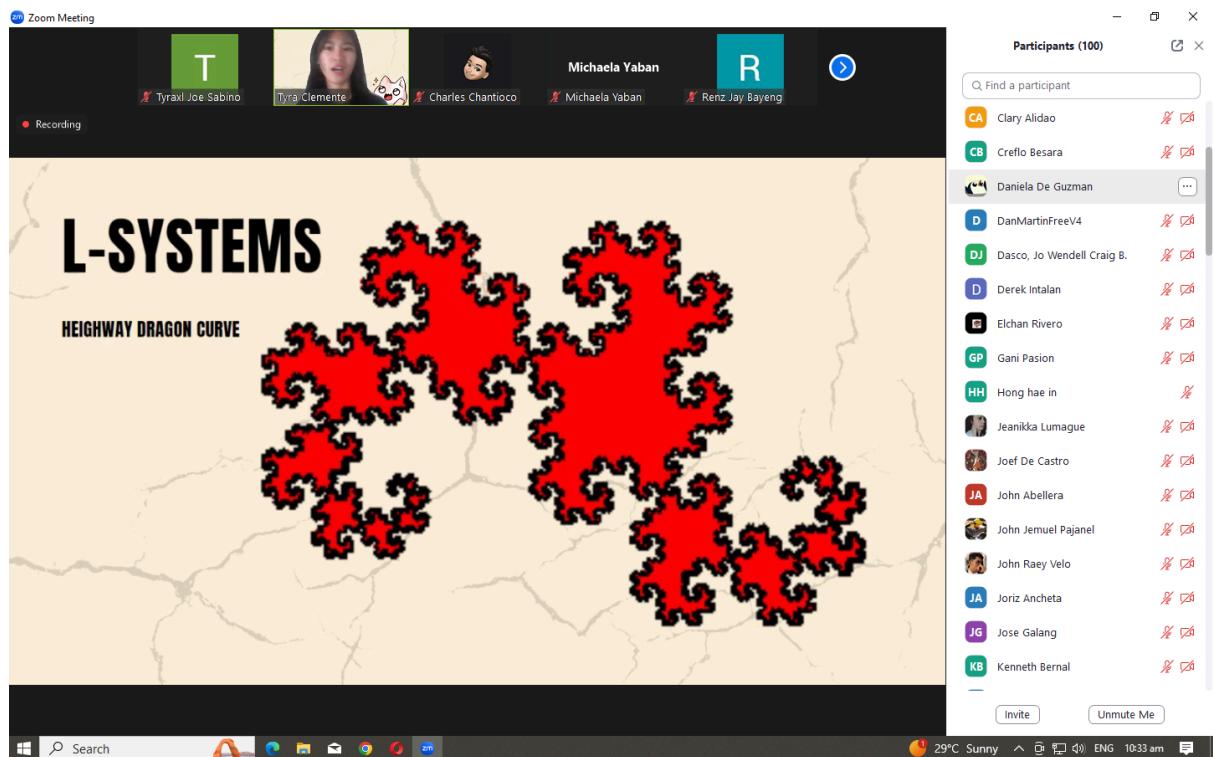
1. Carl Justin Masedman
2. Thelma Palaoag
3. Yohann Mar C. Gayao
4. Shania B. Baday
5. De Castro, Joef Pierson M.
6. Renz Jay P. Bayeng
7. Rebekah Jasmin A. Arcinas
8. Jeanikka Merjoy Lumague
9. Ryzel Erin G. Felizco
10. Rhowella Cy Appi Lagasi
11. Neil Mark Vinuya Saludez
12. Audrey Kyle B. Villar
13. Pearly Joy D. Aduana
14. Lourielle O. Egan
15. Ray Shine Derek Balaswit
16. Peter Ray Aguindang
17. Daniela De Guzman
18. Tj B. Cariño
19. Michaela P. Yaban
20. Elchan Rivero
21. Clary Anne B. Alidao
22. Zoe Kylie Matias
23. Tyra Clemente
24. Eleigh Langgoyan
25. John Jemuel Pajanel
26. Michaela Pineda Yaban
27. Athea Dang-il
28. America Eloise P. Slay
29. Aleeyah Noelle M. Depalog
30. Cris Angelo Bernales
31. John Emmanuel A.
Difuntorum
32. Velo John Raey G
33. Jericho N. Baday
34. Erin Fernandez
35. Clary Anne Alidao
36. Lorraine Bellong
37. Levan S. Tagubar
38. Genesis Hope L. Bucasan
39. Salcedo, Trischa May V.
40. Khyle Kent Alviz
41. Aldith Mirador
42. John Trevanian Abellera
43. Yssabelle Ermitanio
44. Jo Wendell Dasco
45. Aldrin Joshua T. Bobita
46. Pearly Joy D. Aduana
47. Tyraxl Sabino
48. Charles Chantioco
49. Audrey Villar
50. Yssabeller Ermitanio
51. Creflo Basera
52. Francheska Romero
53. Lurimar Atonen
54. Bill Malitao
55. Avila, Jensen Harold
56. Meynard Baucas
57. Bod-oy Colston
58. Estrada, Sherwin
59. Montalban, Lloyd
60. Ocampo, Christella Marie
61. Aldith Mirador
62. Ryzel Felizco
63. Carl Justin Masedman
64. Jach Hardin
65. Kenneth Bernal
66. Rosa Navaro
67. Mark Sakobird
68. Kobe Bayad
69. Rhowella Lagasi
70. Mathias Von Erev
71. Arvin Vargas
72. Gani Pasion
73. Joriz Ancheta
74. Jose Galang
75. Hong Hae In

76. Clyde Pizzarro
77. Beau Yujeco Tortal
78. Jd Cabigas Quema
79. Trace Keon Carandang
80. Kevin Noe Matapang
81. Arlo Galang
82. Tyree Eron Lakandula
83. Landon Pérez
84. Leo Capongga
85. Brycen Kenyon Mariano
86. Dominic Dylon Cruz
87. Zumac Xiomarys Mañalac
88. Maia Singson
89. Engracia Yoshida Matias
90. Diana Alupay
91. Shaniya Elefante
92. Chelsea Brandy Dulalas
93. Ryann Zafra
94. Dania Chávez
95. Kaylie Deina Macalipay
96. Mikaela Leyco
97. Christine Pichicoy Cachuela
98. Jacqueline Kayleigh Vital
99. Melanie Loren Estolas
100. Shai Supsup
101. Ashleigh Bryssa Cuevas
102. Angela Olinne Clemente
103. Cyrin Joy Athaliah
Clemente
104. Orlando Manzano
105. Evangeling Paasa
106. Rosalina Manzano

Screenshots of the Webinar:



This screenshot shows a Zoom meeting interface. The top bar indicates it's a 'Zoom Meeting' and 'Recording'. The main video view on the left shows a pink textured background with a white cat silhouette at the bottom. Overlaid on this are the words 'THE KEY ARSENAL FOR EFFICIENT 3D CREATION' and 'UNLOCK THE POWER OF PROCEDURAL MODELLING'. To the right is a grid of participant thumbnails. The first row contains three thumbnails: 'Al Mirador' (Charles Chanticio), 'Al Mirador' (Tyra Clemente), and 'Kobe Bayad'. The second row contains 'Mark Sakobird' (Tyraxl Joe Sabino), 'Mark Sakobird' (Mark Sakobird), and 'Kobe Bayad' (Kobe Bayad). The third row contains 'Rosa Navaro' (Kenneth Bernal), 'Rosa Navaro' (Rosa Navaro), and 'Christella Marie...' (Yohann Gayao). The fourth row contains 'Michaela Yaban' (Joef De Castro), 'Michaela Yaban' (Michaela Yaban), and 'Christella Marie...' (Christella Marie Ocam...). The fifth row contains 'John Abellera' (Rhowella Lagasi), 'John Abellera' (John Abellera), and 'Ryzel Felizco' (Ryzel Felizco). The sixth row contains 'Clary Alido' (LOURIELLE EGAN), 'Clary Alido' (Clary Alido), and 'John Jermuel Pajanel' (John Jermuel Pajanel). The bottom of the screen shows the Windows taskbar with various icons and the system tray.



Zoom Meeting

You are viewing Charles Chantico's screen

Participants (100)

Recording

OUR STUDY

RESQUAKE: SIMULATING POST-EARTHQUAKE DAMAGE IN PHILIPPINE HOMES USING PROCEDURAL MODELING

John Jernuel Rajanel, Tyra Clemente (Host), Charles Chantico, Al Mirador, Alayna Chantico

Unmute Start Video Participants Share Screen Summary AI Companion Reactions Apps Whiteboards Notes More Leave

Tyra Clemente 10:44 AM

1. Voronoi: <https://www.jasondavies.com/maps/voronoi/>
2. Perlin noise: <https://www.zazow.com/info/perlin-noise.php>
3. Houdini Free Version: <https://www.sidefx.com/products/houdini-apprentice/>

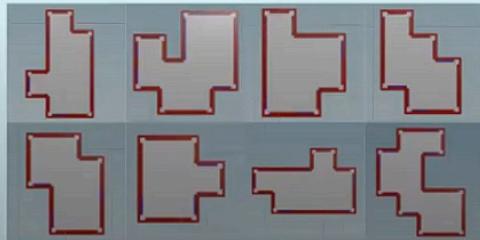
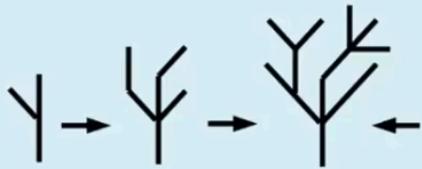
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To: Meeting Group Chat

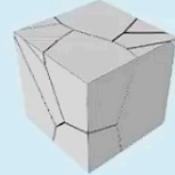
Message Webinar: The Key Arsenal for Ef...

TECHNIQUES USED

L-SYSTEM



VORONOI FRACTURE



ARISTID LINDENMAYER



Hungarian Biologist



Journal of Theoretical Biology
Volume 18, Issue 3, March 1968, Pages 280-299



Mathematical models for cellular interactions in development I. Filaments with one-sided inputs

Aristid Lindenmayer

Show more ▾

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[https://doi.org/10.1016/0022-5193\(68\)90079-9](https://doi.org/10.1016/0022-5193(68)90079-9)

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Abstract

A theory is proposed for the development of filamentous organisms, based on the assumptions that the filaments are composed of cells which undergo changes of state under inputs they receive from their neighbors, and the cells produce outputs as determined by their state and the input they receive. Cell division is accounted for by inserting two new cells in the filament to replace a cell of a specified state and input. Thus growing filaments are obtained which exhibit various developmental patterns, like

Zoom Meeting

You are viewing Charles Chantico's screen View Options

Recording

Participants (100)

Find a participant

John Jemuel Pajanel (Me) Tyra Clemente (Host) Charles Chantico Al Mirador

Invite Unmute Me

Webinar: The Key Arsenal for Eff... 10:44 AM

Tyra Clemente 10:44 AM

1. Voronoi: <https://www.jasondavies.com/maps/voronoi/>

2. Perlin noise: <https://www.zazzow.com/info/perlin-noise.php>

3. Houdini Free Version: <https://www.sidefx.com/products/houdini-apprentice/>

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Message Webinar: The Key Arsenal for Ef...

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Search

ENG INTL 10:53 am 12/04/2024

THE KEY ARSENAL FOR EFFICIENT 3D CREATION

UNLOCK THE POWER OF PROCEDURAL MODELLING

You are viewing Charles Chantico's screen

Recording

TECHNIQUES

POLYGONAL MODELING

Models are built by **connecting vertices to form polygons**, typically triangles or quadrilaterals.

Tyra Clemente
Tyra Clemente
Charles Chantico

Christella Marie...
Christella Marie Oca.
Michaela Yaban

R
Renz Jay Bayeng
Ryzel Felizco

Pearly
John Raey Velo
John Jemuel Pajanel

Mark Sakobird
Mark Sakobird
Kobe Bayad

Rosa Navaro
Rosa Navaro
Joel De Castro

Kenneth Bernal
Mathias Von Erev

Rhowella Lagasi
Rhowella Lagasi
John Abellera

Clary Alidao
Clary Alidao

Participants: 37

Unmute Start Video Chat Share Screen Summary AI Companion Record Show Captions Reactions Apps Whiteboards Notes Leave

Zoom Meeting

Recording

L-SYSTEMS

LINDENMAYER SYSTEMS

- F :
- + :
- - :

Tyra Joe Sabino
Tyra Clemente
Charles Chantico
Michaela Yaban
Renz Jay Bayeng

Szand Valdez
Thelma Palaoag
Yohann Gayao
Yssabelle Ermitanio
Alberta Hopkins
Arturo
Arvin Vargas
Asawa ni Charles 1
Bagwis
Balmeo, JK
Benjie Ferrer
Benjie Mendoza
Bituin Franco
Crisanto Thompson
Demonyo ni Charles
Ellah Jane Pascual
Elle Ferrer

Participants (100)

Find a participant

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29°C Sunny

THANK YOU

★ Your Feedback Matters:

Please spare a few moments to complete our brief **satisfaction survey**.



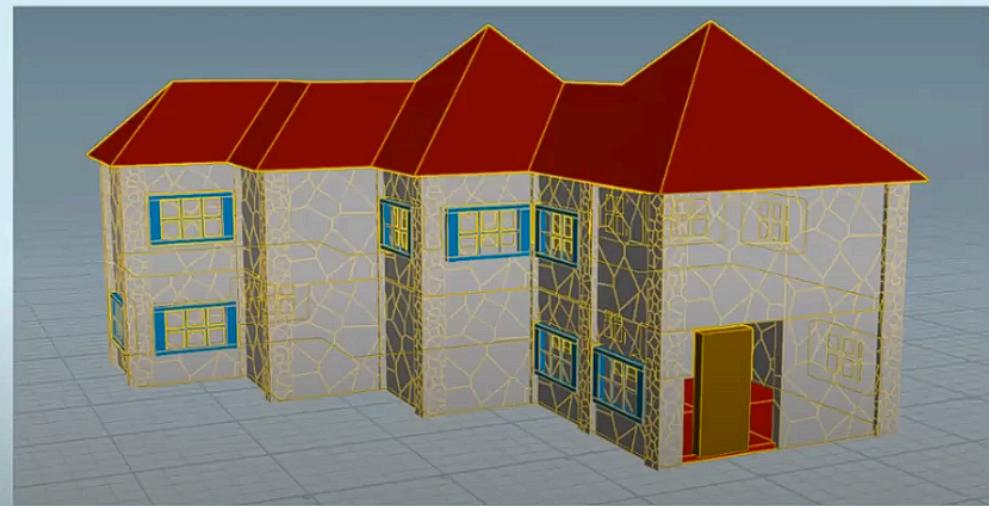
❑ Certificate of Participation:

As a token of our appreciation, a **certificate of participation** will be exclusively issued to those who **fill out the survey**.



bit.ly/4aF4xQ4

VORONOI DIAGRAMS



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Thesis Writing 2
Conducted Webinar Rubric

	Very Good	Good	Fair	Score
Topics Covered	(50 points) The topics covered are relevant and aligned with the thesis.	(40 points) The topics covered are relevant but not fully aligned with the thesis.	(30 points) The topics covered are not fully aligned with the thesis.	
Participants	(20 points) There are at least 100 participants during the webinar.	(10 points) There are 50 to 99 participants during the webinar.	(5 points) There are less than 50 participants during the webinar.	

Screenshots	(30 points)	(20 points)	(10 points)	
	There are more than 20 screenshots showing the discussions, participants, and interactions among the speakers and attendees.	There are more than 20 screenshots but does not completely show the discussions, participants, and interaction among the speakers and attendees.	There are fewer than 20 screenshots.	
TOTAL SCORE				