

ML & Education & Gardening and digital rocks(?)

Started with ML, Poverty, Transit
Switched to ML, Poverty, Cartography
Switched to ML, Education, Cartography
Ended on ML, Education, Gardening

Machine learning (for the production and manipulation of assets)

- Past (basic terminology that has defined this topic)
 - o Science fiction?
 - o Patterns
 - o Reinforcement learning
 - o Repetitively trained.
 - o Data based.
 - o Models
 - o Algorithm -> what do these look like?
 - o Neural network
 - o Algorithm
 - Supervised learning
 - Perceptron (important reading: <https://en.wikipedia.org/wiki/Perceptron>)
 - o Binary classifier (vector of numbers)
 - o ADALINE
 - o Generalized linear model of statistics.
 - o Probabilistic reasoning.
 - o Symbolic artificial intelligence
 - o Expert systems
 - o Inductive logic programming
 - o Pattern recognition and information retrieval
 - o Connectionism
 - o Backpropagation
 - o Started to flourish as its own field (ML) in the 1990s
 - o Shifted focus from symbolic approaches toward methods and models borrowed from statistics, fuzzy logic and probability theory.
 - o Data mining (focuses on discovery of previously unknown properties in data, whereas ML is prediction based on known properties)
 - o Unsupervised learning
 - o Optimization
 - o Loss function
 - o Generalization
 - o Deep learning
 - o In contrast, machine learning is not built on a pre-structured model; rather, the data shape the model by detecting underlying patterns.
 - o Random forest or random decision forest.
 - o Computational learning theory
 - o Bias-variance decomposition
 - o Overfitting
 - o Supervised learning
 - o Unsupervised learning
 - o Feature learning
 - o Reinforcement learning
 - o
- Present (current issues and problems)
 - o Who are the top players?
 - o Legality?
 - o "Once that first blush fades, it becomes clear that ChatGPT doesn't actually know anything--instead, it outputs compositions that simulate knowledge through persuasive structure. And as the novelty of that surprise wears off, it is becoming clear that ChatGPT is less a magical wish-granting machine than an interpretive sparring partner, a tool that's most interesting when it's bad rather than good at its job." The Atlantic article.
 - o [Exploitability](#)
 - o Bias
 - o Ethics
 - o Check [Github lists](#)
 - <https://github.com/josephmisiti/awesome-machine-learning>
 - o At home tonight, follow those Twitter [pages](#)
 - o Diffusion model
- Future (emerging/speculative areas)
 - o Science fiction again?

Education

- Past (basic terminology that has defined this topic)
 - o https://en.wikipedia.org/wiki/Glossary_of_education_terms
 - o Skill building
 - o Oral communication and imitation
 - o Writing
 - o Transmitting of knowledge
 - o Informal vs formal education (formal was rare in ancient society)
 - o Scribes and priests mostly were educated.
 - o Universities / guilds
 - o Printing press in 15th century
 - o Literacy
 - o Public education (18th and 19th century)
 - Publicly funded schools
 - Aztec civilization was an exception since formal education was mandatory for the youth regardless of class (as early as 14th century)
 - o Universal Declaration of Human Rights, the Convention on the Rights of the Child, types of 20th and 21st century initiatives.
 - o Primary education
 - o Higher education
 - o Standardized curricula
 - o Standardized tests
 - o Assessments
 - o Teaching certification standards
 - o Online education
 - o Remote learning
 - o Video lessons
 - o Globalization and internationalization of education
- Present (current issues and problems)
 - o Criticism of schooling (i.e., critical race theory or WGSS)
 - o COVID school (remote learning)
 - o Education through AI
 - o Gamification of learning
 - https://en.wikipedia.org/wiki/Gamification_of_learning
 - o Microlearning
 - o Blended learning
 - o AR
- Future (emerging/speculative areas)
 - o https://edu.google.com/intl/ALL_us/future-of-education/
 - o <https://www2.ed.gov/documents/ai-report/ai-report.pdf>
 - o

Cartography, Cartography (/kɑːˈtɒɡrəfi/; from Ancient Greek: χάρτις chartēs, "papyrus, sheet of paper, map"; and γράφειν graphein, "write") is the study and practice of making and using maps. Combining science, aesthetics and technique, cartography builds on the premise that reality (or an imagined reality) can be modeled in ways that communicate spatial information effectively. Past (basic terminology that has defined this topic)

- Rock carvings (prehistoric alpine)
- Dotted rectangles and lines
- Depict
- 2nd century CE, Ptolemy wrote treatise, *Geographia*
- Ecumene: the known, inhabited or habitable world (ancient Greece)
- Star chart
- Pole star – useful for navigation
- *Mappae mundi*, maps of the world
- Planisphere
- Map projection
- Atlas, a collection of maps
- Maps were displayed with equal importance of painting, sculptures, and other pieces of art, as they began to be used to impress and establish an owner's reputation (in the Renaissance)
- Three functions during the Renaissance
 - General descriptions of the world
 - Navigation and wayfinding
 - Land surveying and property management
- Map trade
- Printing, lettering, color
- Aerial photography, satellite imagery, remote sensing
- Ground tracks
- Cartogram
- Satellites and mapping of other planets
- Digital raster graphic
- GPS
- Laser rangefinder
- Virtual globe
- Satnav devices
- Spatial information stored on databases.
- Deconstruction of maps, this is super critical to swing back to
- Fantasy cartography? Fictional maps?
- Present (current issues and problems)
 -
- Future (emerging/speculative areas)
- Thoughts
 - Maps are how we understand transcending space, video games break or tweak how this can happen. So can shows (*Severance*) & movies.
 - Orientation of the map can tell a false story.
 - Even a 3D model is a map, UV map.

ML and Cartography – these all lean toward cartography so far.

- Drought forecasting <https://proxy.lib.ohio-state.edu/login?url=https://search.ebscohost.com/login.aspx?direct=true&site=eds-live&scope=site&db=edsswe&AN=edsswe.oai.lup.lub.lu.se.cdb7c29a.aac8.4809.8ea3.6ccb58249c04>
- Lots of remote sensing articles
- A lot of prediction of data (on human body, or planetary scale)
- Productivity predictions <https://proxy.lib.ohio-state.edu/login?url=https://search.ebscohost.com/login.aspx?direct=true&site=eds-live&scope=site&db=edsswe&AN=edsswe.oai.research.chalmers.se.e9b23405.126f.45b5.a3e8.b5671d6a5498>
- Analysis of mining, water management, preservation <https://proxy.lib.ohio-state.edu/login?url=https://search.ebscohost.com/login.aspx?direct=true&site=eds-live&scope=site&db=edsdoj&AN=edsdoj.f469f90e55b44d11982c4c2e08f6b0aa>
- Land coverage <https://proxy.lib.ohio-state.edu/login?url=https://search.ebscohost.com/login.aspx?direct=true&site=eds-live&scope=site&db=edsswe&AN=edsswe.oai.lup.lub.lu.se.8830807b.7443.481d.b5f6.3f2e91c501f7>
- Climate change, tree canopy mapping, heat island, <https://proxy.lib.ohio-state.edu/login?url=https://search.ebscohost.com/login.aspx?direct=true&site=eds-live&scope=site&db=edsdoj&AN=edsdoj.85431548a03744d29eaa8ab6c247e58f>
- On war <https://proxy.lib.ohio-state.edu/login?url=https://search.ebscohost.com/login.aspx?direct=true&site=eds-live&scope=site&db=edselc&AN=edselc.2-52.0-85085304729>
- Air temperature estimation over winter wheat fields <https://proxy.lib.ohio-state.edu/login?url=https://search.ebscohost.com/login.aspx?direct=true&site=eds-live&scope=site&db=edsdoj&AN=edsdoj.b9c764a8ea244d98b9e3a19b65f290fb>
- Detection of algal bloom <https://proxy.lib.ohio-state.edu/login?url=https://search.ebscohost.com/login.aspx?direct=true&site=eds-live&scope=site&db=edsdoj&AN=edsdoj.9b41f5bddb014637b1c86536b5b5d5be>
- Philosophy of ML and remote sensing “fake” imagery <https://proxy.lib.ohio-state.edu/login?url=https://search.ebscohost.com/login.aspx?direct=true&site=eds-live&scope=site&db=edsdoj&AN=edsdoj.9b41f5bddb014637b1c86536b5b5d5be>
- Social spatial studies per consumerism <https://eds.p.ebscohost.com/eds/detail/detail?vid=0&sid=b355c680-ce36-4b6e-83c2-e4efba97a384%40redis&bdata=jnNpdGU9ZWRlWxpdmUmc2NvcGU9c2l0ZQ%3d%3d#AN=edsdoj.49dc6108b434a1696e25fd457ed6e3a&db=edsdoj>
- Detection of pine wilt disease <https://proxy.lib.ohio-state.edu/login?url=https://search.ebscohost.com/login.aspx?direct=true&site=eds-live&scope=site&db=edsair&AN=edsair.doi.dedup.....c12a3dafa31e6cba394931fc23e1c93b>
-
-
-

2020 and later stuff (ML being utilized a lot in geodata related studies)

- Measuring zones of armed conflict
- Climate change or natural disaster per prediction of satellite and remote sensing data
- Predictions per imaging of the human body (x-ray, scans, etc.)
- Prediction for climate change, crop yields, and more.
- Perfecting conditions for crops
- Detection
- Categorization and generalization
- Inequality study
- Route optimization
-
-

<https://dl.acm.org/action/doSearch?AllField=cartography+machine+learning&expand=all&ConceptID=118182>

Other

- Robots mapping environments <https://proxy.lib.ohio-state.edu/login?url=https://search.ebscohost.com/login.aspx?direct=true&site=eds-live&scope=site&db=a9h&AN=10876647>
- Health crisis <https://proxy.lib.ohio-state.edu/login?url=https://search.ebscohost.com/login.aspx?direct=true&site=eds-live&scope=site&db=edsair&AN=edsair.doi.....6cb0c6a7df4c2fd46a9c7ffa9c7c8f48>
-

Hologram example: <https://www.youtube.com/watch?v=sv-38lwV6vc>



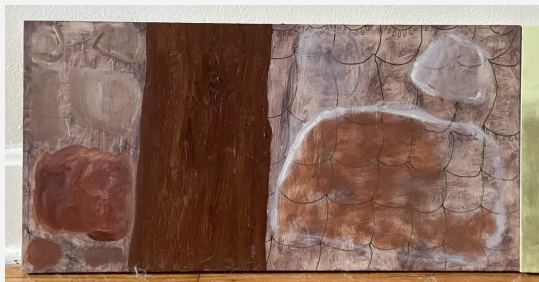
<http://dataphys.org/list/jller-a-robot-rearranges-pebbles-by-geologic-age/>



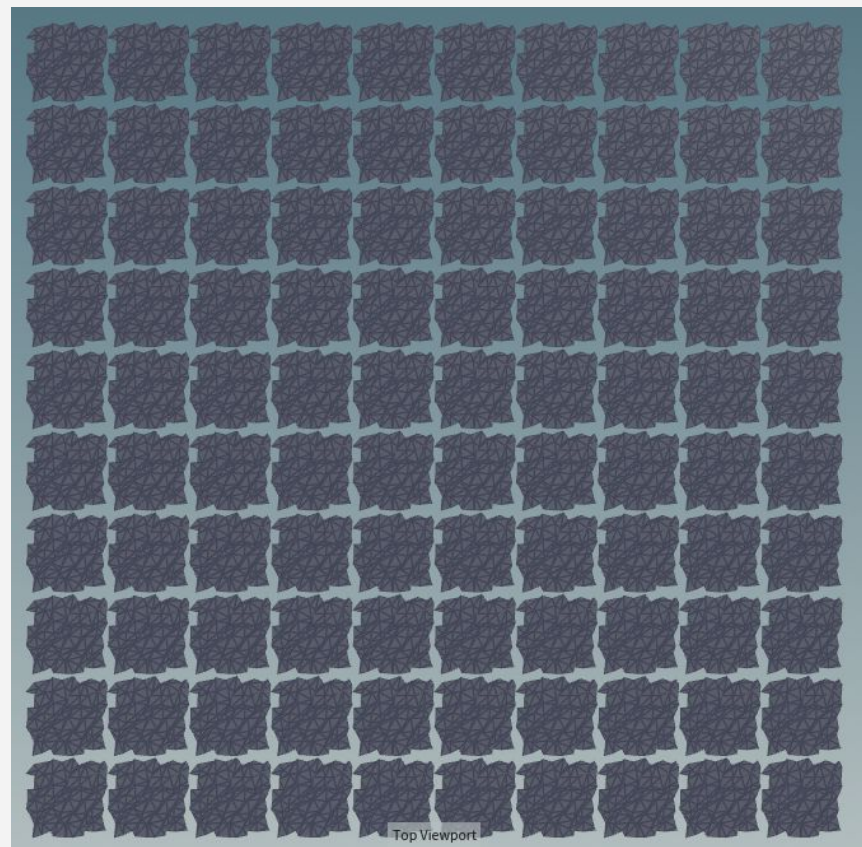
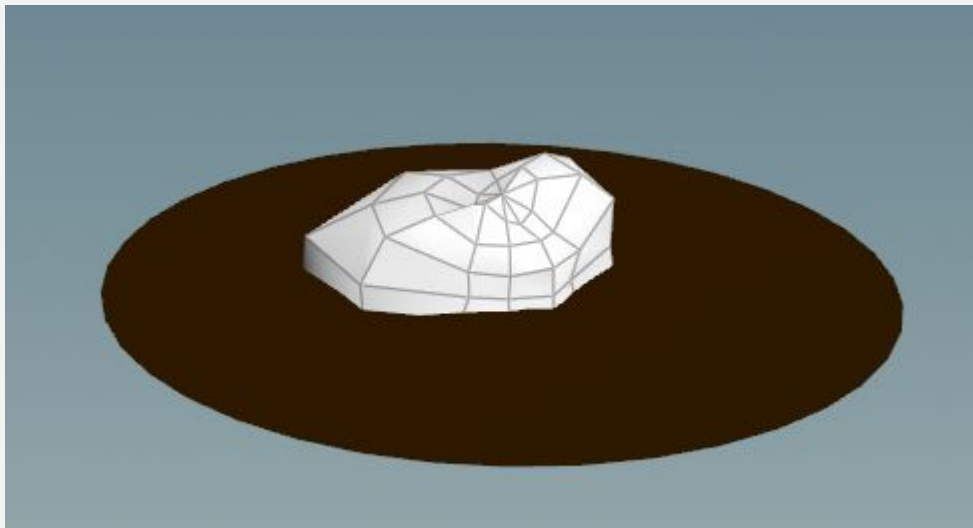
Untitled, 1989, Stanley Whitney, Crayon on paper

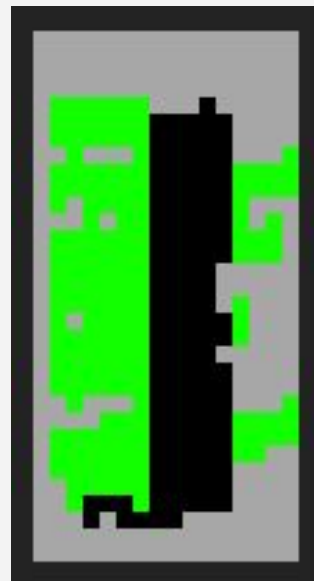
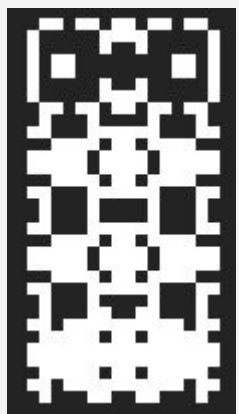
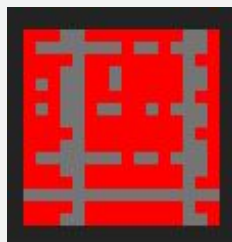
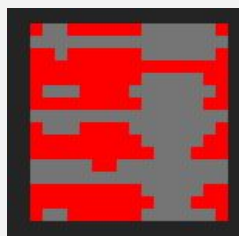
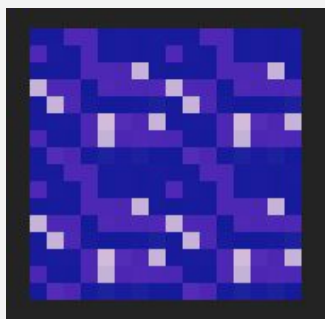


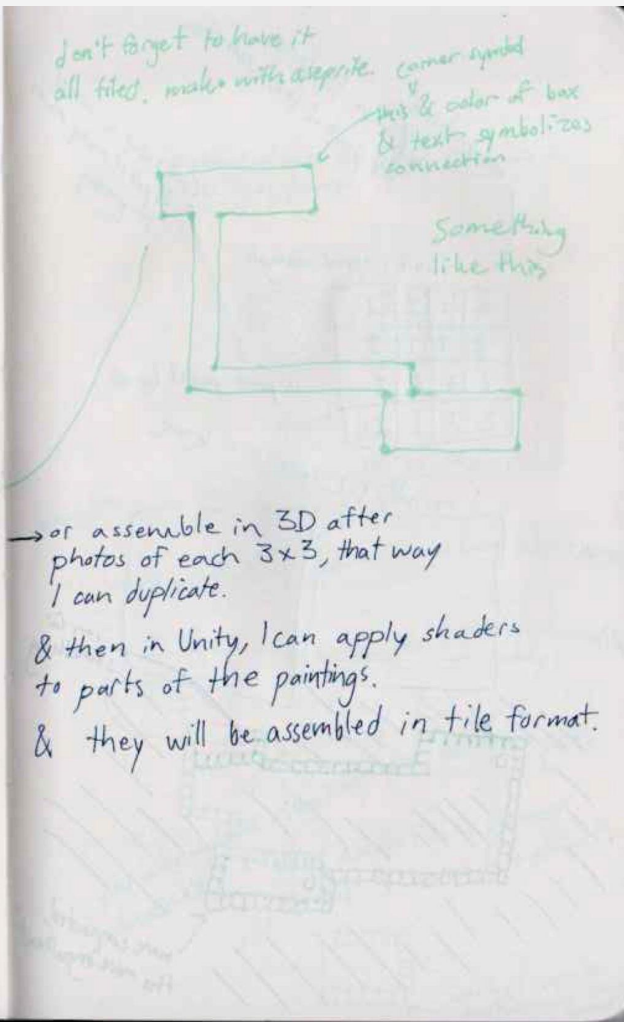
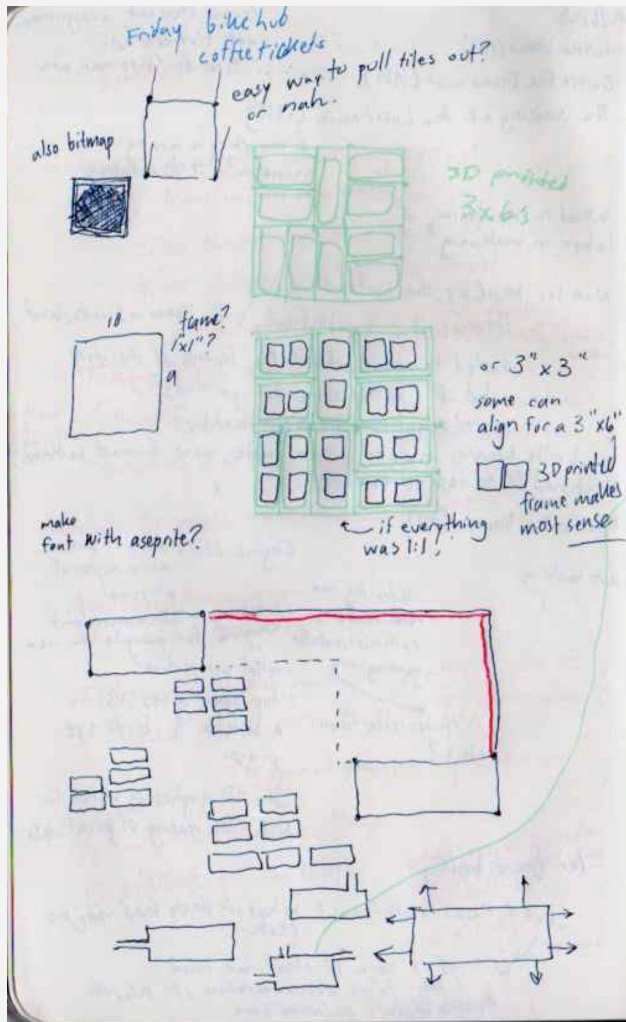
Sketchbook, 2017, Stanley Whitney



Studio studies on various forms of artificial rock formations







on backside
OR on frontside
as part of the artwork

16x16 cropped example

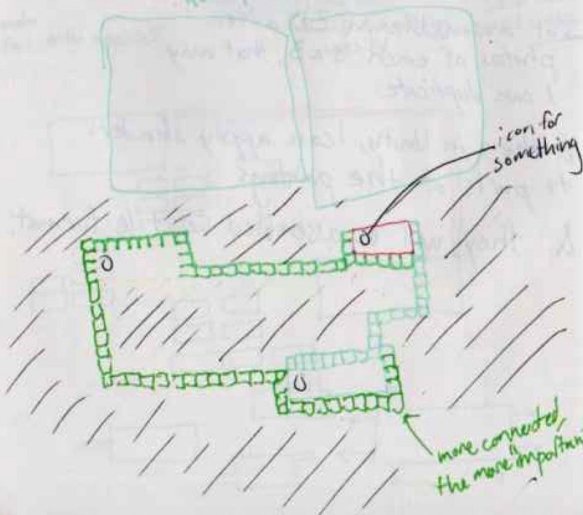
1	1	3	1
2	3	1	2
1	3	3	2
2	2	1	2

3D print part by #

half 1-2 ratio is a square

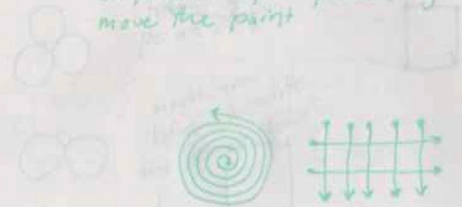
can set a model
up at a party
for printing

icon for something



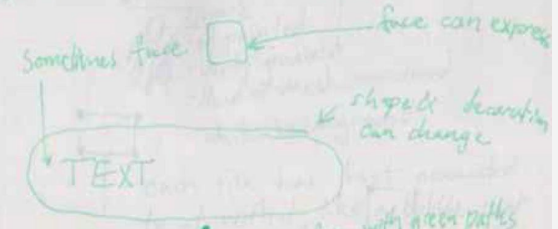
more connected,
the more important?

oil paint already on panel for guide to
move the paint



repeatedly
this could be the video
recorded version

diagram by



gray background like on breakable surface with green patches
using garden tiles to surround
a box & connect to others.



one half can be
another color

magnitude of help or alignment in my own research

Projects

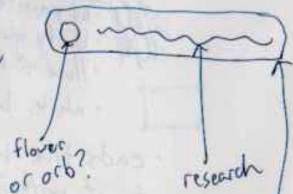
- ML
- Education
- Cartography
- ML & Cartography
- ML & Education
- Edu, ML & Carto
- All 3

game objects,
not tilemaps

connection
when there is
alignment between
2-3 topics

Can be any type
of generated tile
flower or ground
or water or tree

hovering over the
tile reveals the
bubble for what it is



50% transparent

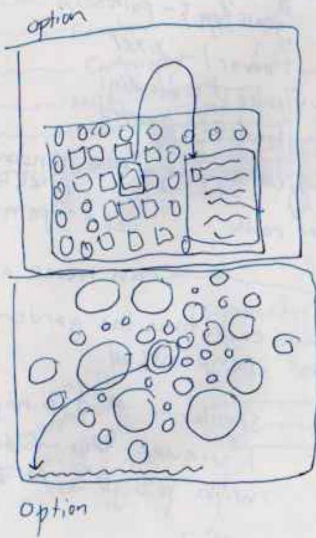
or just scatter them all about

- ML - grass type 1 - pixel
- Edu - ~~flower~~ grass type 2 - houdini
- Cart - grass type 3 - painted
- ML & Cart - flower 1 - pixel
- ML & Edu - flower 2 - houdini
- Edu & Cart - flower 3 - painted
- All three - tree sampling - ~~one~~ randomized
or rock pixel, houdini,
or painted

can hover over
each time the garden is
randomized.

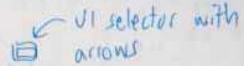
similar to that project
I viewed ~~to~~ made
with p5.js & NFT'd.

tilemap arranged on
random & or with noise
& is an array of
research titles or w/e,
maybe even a link?



any amount of pixels,
but, every object is 1:1

the more pixels, the
more in to research
on an area

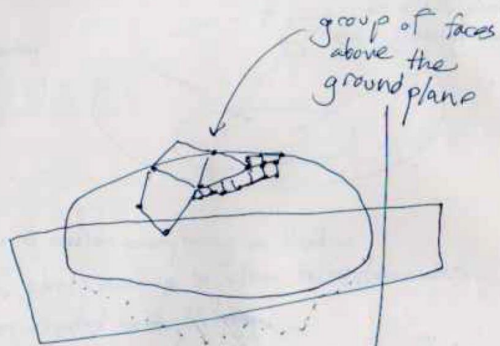


UI selector with
arrows

study of seeds
instead of cartography?

diagram the map & where
things go in my sketchbook

then make a finished
version in Unity.



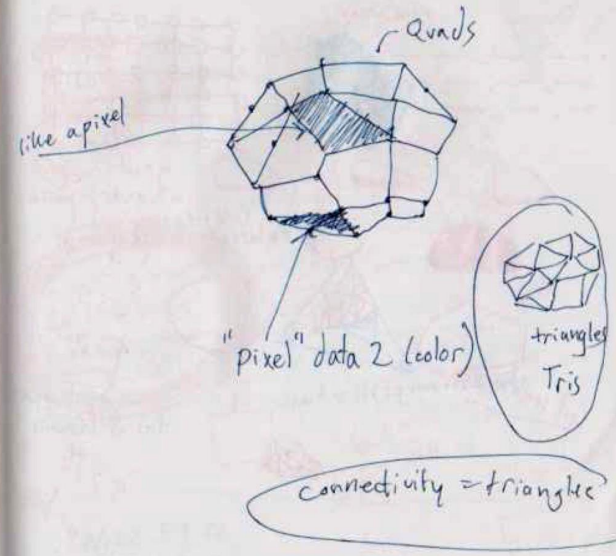
group of faces
above the
ground plane

cel shading
solid colors
no textures

each face
can be turned green to
become a lichen data point
it is randomized... color,
& face location (#)

lichen for notes on
subject.

think of the faces as ~~at~~ a
datapoint in the same way |
think of pixels



quads

like a pixel

"pixel" data 2 (color)

triangles
Tris

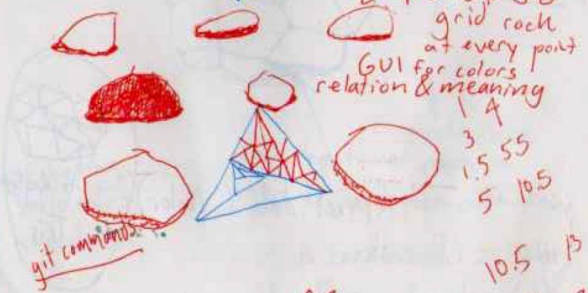
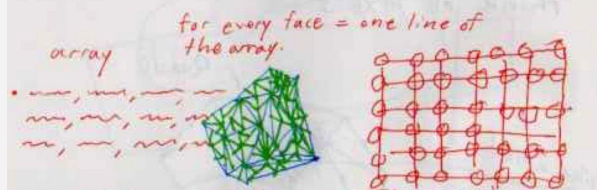
connectivity = triangles

unreal engine verse

2.5727. 1.4666 1.4666

194 194 194

maybe Zotero can output an array that I can use for parameters
Zotero tags
Somehow linked to my Zotero?



git commands

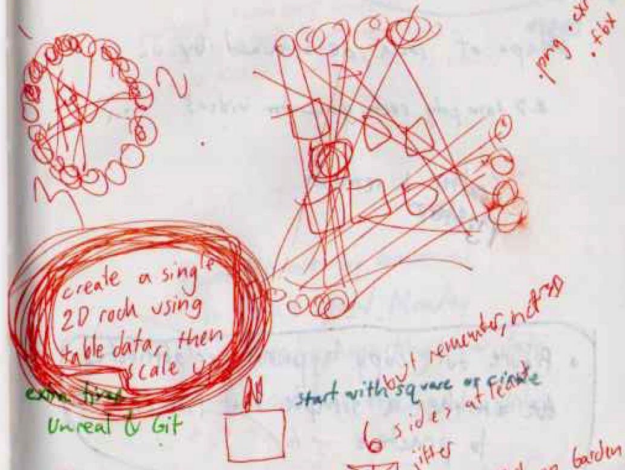
10.5 15
9.5/3 7
3ish per day

3:30-4
5-7pm

4/15/23 Hist of Animation Prince Ahmed 1926
silhouette, rigged/animable cut outs
Lotte Reiniger 1916-1929

Memorable silhouettes ^{movements} animation that is "elegant"
or not between characters.

Blender or Houdini to create a snippet of digital remaking of the movie(?) Maybe I can use MLPP. Google who can reuse this material. It would be good to add to a show reel



create a single 2D rock using table data, then scale up
extra files
Unreal & Git

start with 1 square or 6 sides at least
jitter



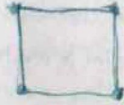
2022.3.4.f1
2021.3.8.f1

Bitmap garden
push code files
always on Git
private

I want to research on siggraph
pieces or points



10 pts to start



4 pts

Shape of rock, determined by...

2D low poly rock generator video?

Scatter & remesh
PyHoudini

- figure out copy to points per attributes
then make a simple text file or csv
to practice up to 9? 3x3

object	# of points to affect	how green 1-10
1	1-10	10
2	1	3
3	3	2
4	7	etc.
5	9	
6	etc.	

name
name of exact
coal rock
sand rock
defeated rock
etc.

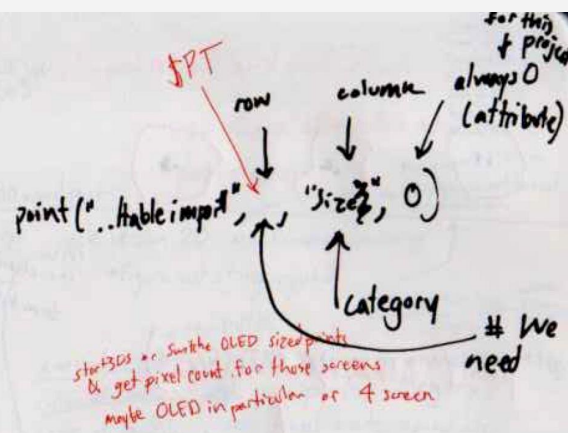


Figure this out by tomorrow
so I can spend Monday
& Tuesday importing the data
& creating the google slides

size of rock color of rock
is topic (pair, single, or group) color of lichen



ML
can change
farm bot

point ("shape", "size", "color", "x", "y", "z")

variable related to grid point.

how to assign it at the beginning?

all same size rocks
more (yikes) through
rock shape changes
per category?

parameters 0 - 100

add gray & black
& white triangles to the rock

variables of
artificial rocks

Made up of components
like a star & shade of color
asphalt crumblers
asphalt rocks with splashes
on them?

papers fun, because
I've been eliminated by rock ideas
on insta & other algorithms using
sites, but I don't get to the
"origin" of research, they go on
ideas that people have covered in
papers
wanting a prototype/idea for
For research papers
& articles

ML software give if you're at grid point 3...

use these attributes as
parameters

Tues 1hr
Wed 3hrs
Thurs 1.5hrs
Fri 3hrs
Sat 2.5hrs
Sun 2hrs
Months

200 word post

for games & film
ML in graphics / asset / visual
production

To do rock version 2D ML Education Gardening

• figure out string input

• attributes

amount of inches → 1-100, relation to my research category

color of rock → 0-6, topic(s) category

size of rock → year it was made, released, etc.

title → title of research

position rocks by...
research interest or research category?
Year or type

category for type
games
film
etc.

category of place it was found or
type of citation
source

SLIDES

Agenda/
Order/
organization

• read for grad studies

• research

• Houdini

• VR'ing (Monday)

15 mins

• ML, past, present, future

• Education, past, present, future 5mins

• Gardening, past, present, future

• Topic alignments 5 mins

• Research visualized 5mins
w/my favorite finds

process work
& a bit about
cartography
& sketchbook photos

tell about my favorite rocks

hand-drawn
diagram
has on paper
the slides
hologram

DIORA
PROGRAM

SIGGRAPH

Special Interest Group on Computer Graphics

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Publications

SEMINAL-WORKS



Seminal graphics: pioneering efforts that shaped the field


SEMINAL-WORKS



Seminal Graphics Papers: Pushing the Boundaries, Volume 2

When we began planning how to celebrate 50 years of SIGGRAPH Conferences, there was unanimous agreement that one...

JOURNAL



Proceedings of the ACM on Computer Graphics and Interactive Techniques

The Proceedings of the ACM in Computer Graphics and Interactive Techniques (PACMCGIT) publishes original...



Conference Proceedings

SIGGRAPH (Special Interest Group on Computer Graphics)

DIGITAL LIBRARY

Keyword:

Author:

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CONFERENCE PROCEEDINGS

- Chinese DiGRA '16
- Chinese DiGRA '18 Abstract Proceedings
- Computer Games and Digital Cultures Conference Proceedings
- DiGRA '03 - Proceedings of the 2003 DiGRA International Conference: Level Up
- DiGRA '05 - Proceedings of the 2005 DiGRA International Conference: Changing Views: Worlds in Play
- DiGRA '07 - Proceedings of the 2007 DiGRA International Conference: Situated Play
- DiGRA '09 - Proceedings of the 2009 DiGRA International Conference: Breaking New Ground: Innovation in Games, Play, Practice and Theory
- DiGRA '11 - Proceedings of the 2011 DiGRA International Conference: Think Design Play
- DiGRA '13 - Proceedings of the 2013 DiGRA International Conference: DeFragging Game Studies
- DiGRA '14 - Proceedings of the 2014 DiGRA International

My Library

Q - All Fields & Tags

Title	Creator	Year
▶ 3D shape and texture morphing using 2D projection and reconstruction	Ludwig et al.	2015
▶ A 3D Robot Simulation for Education	Adcock et al.	2003
▶ A cognitive architecture for automatic gardening	Agostini et al.	2017
▼ A Procedural Critique of Deontological Reasoning	Togelius	2011
2		
▶ Togelius – A Procedural Critique of Deontological Reasoning.pdf		
▼ A Realistic Reaction System for Modern Video Games	Katchabaw	2005
5		
▶ Katchabaw – A Realistic Reaction System for Modern Video Games.pdf		
▶ A School Gardening and Healthy Snack Program Increased Aboriginal First Nations Children's Preferences Toward Ve...	Triador et al.	2015
▶ Applying artificial intelligence modeling to optimize green roof irrigation	Tsang and Jim	2016
▶ Artificial neural network modelling to predict cuticle cracking in greenhouse peppers and tomatoes	Ehret et al.	2008
▶ Augmenting sampling based controllers with machine learning	Rajamaki and Hämäläinen	2017
▶ Automatic food detection in egocentric images using artificial intelligence technology		2017
▶ Beyond Adversarial: The Case for Game AI as Storytelling	Roberts et al.	
▼ Bonding with Horses and Other Animals in Breath of the Wild	Seraphine	2018
4		
▶ Seraphine – Bonding with Horses and Other Animals in Breath of.pdf		
▶ Brief review of video games in learning & education how far we have come	Kenwright	2017
▶ CHALLENGES FOR ARTIFICIAL INTELLIGENCE IN DIGITAL GAMES	Charles	
▶ Characterizing the relationship between environment layout and crowd movement using machine learning	Liu et al.	2017
▼ Construction of a Landscape Design and Greenery Maintenance Scheduling System Based on Multimodal Intelligent C...	Ji et al.	2022
5		
▶ Ji et al. – 2022 – Construction of a Landscape Design and Greenery Ma		
▼ Correlation between Indoor Environmental Data and Biometric Parameters for the Impact Assessment of a Living Wall...	Salamone et al.	2020
1		
▶ Salamone et al. – 2020 – Correlation between Indoor Environmental Data and		
▶ Dialog as a Game		
▶ Discovering Social and Aesthetic Categories of Avatars: A Bottom-Up Artificial Intelligence Approach Using Image Cl...	Lim et al.	
▶ Effect of sodium nitrate loading on electrolyte transport by the renal tubule	Kahn et al.	1975
▶ Evaluation of the impact of a school gardening intervention on children's fruit and vegetable intake: a randomised c...	Christian et al.	2014
▶ Evaluation of the Water Quality and Farming Growth Benefits of an Intelligence Aquaponics System	Huang et al.	2021
▶ Evolution and Digital Game Studies	Easterly and Harper	
▶ Expressive AI: Games and Artificial Intelligence	Mateas	
▶ Fashionable education: is RGB the new black?	McMenemy and Ferguson	2005
▶ Garden: a mixed reality experience	Sing et al.	2016
▶ Gardens, Machines and Education	McMullen et al.	2018
▶ GORI.Node Garden		2006
▶ Green Computing for Big Data and Machine Learning	Barua et al.	2022
▶ Human capital development through innovation design education	Miyata et al.	2017
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Item Type Journal Article

Title A Procedural Critique of Deontological Reasoning

▼ Author Togelius, Julian

Abstract This paper describes a prototype game that learns its rules from the actions and commands of the player. This game can be seen as an implementation and procedural critique of Kant's categorical imperative, suggesting to the player that (1) the maxim of an action is in general underdetermined by the action and its context, so that an external observer will more often than not get the underlying maxim wrong, and that (2) most in-game actions are morally "wrong" in the sense that they do not contribute to wellbalanced game design. But it can also be seen as an embryo for an authoring tool for game designers, where they can easily and fluidly prototype new game mechanics.

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1 3 4 5 6 Animals Bicarbonates Biological Transport Chlorides Chlorothiazide Computer Science - Computation and ...

Table Position	Key	Item Type	Publication Year	Author	Title	Publication Title	ISBN	ISSN	DOI	Url
1	V4YU2NCT	journalArticle	2015	Ludwig, Michael	3D shape and texture morphing using 2D projection and reconstruction	Computers & Graphics		978493	10.1016/j.cag.20	htt
2	FP3GHWFN	conferencePape	2003	Seun, Moon; Ge	Henry's Garden		978-1-4503-7785-0		10.1145/100611	htt
3	4SWPNGQ9	webpage			https://journals-sagepub-com.proxy.lib.ohio-state.edu/doi/pdf/10.1177/1046878109335120?download=true					htt
4	3M7A45Q2	journalArticle	2015	Triador, Lucia; F	A School Gardening and Healthy Snack Program Increased Aboriginal First Nations Children's Preferences Toward Vegetables and Fruit	Journal of Nutrition Education and		14994046	10.1016/j.jneb.2	htt
5	ZVJDIM72	journalArticle	2017	Agostini, Alejan	A cognitive architecture for automatic gardening	Computers and Electronics in Agri		1681699	10.1016/j.compa	htt
6	MAJ7V18T	journalArticle	2021	Moerkens, R.; Ji	Simplified modelling enhances biocontrol decision making in tomato greenhouses for three important pest species	Journal of Pest Science		1612-4758, 161	10.1007/s10340	htt
7	C8I9J7YZ	journalArticle	2020	Salamone, Fran	Correlation between Indoor Environmental Data and Biometric Parameters for the Impact Assessment of a Living Wall in a ZEB Lab	Sensors		1424-8220	10.3390/s20092	htt
8	EFZW31QR	journalArticle	2022	Ji, Mingfei; Lu, J	Construction of a Landscape Design and Greenery Maintenance Scheduling System Based on Multimodal Intelligent Computing and Deep Neural Networks	Computational Intelligence and N		1687-5273, 168	10.1155/2022/8	htt
9	YW2LJR4R	encyclopediaArti	2023		Gardening	Wikipedia				htt
10	D59XB9Q9	webpage	2016	Compton	So you want to build a generator					htt
11	MDDT9RTS	journalArticle	1995	Nassauer, Joan	Messy Ecosystems, Orderly Frames	Landscape Journal		0277-2426, 155	10.3368/lj.14.2.1	htt
12	9V8MEALJ	journalArticle	1988	Schiin, Donald	A Designing: Rules, types and worlds	DESIGN STUDIES				
13	MVLU4HF8	journalArticle	2003	Coyne, Richard	Mindless repetition: Learning from computer games	Design Studies		0142694X	10.1016/S0142-	htt
14	9R9WXMKL	book	2006	Cross, Nigel	Designrly ways of knowing		978-1-84628-300-0	978-1-84628-301-7		
15	FQGJK94	journalArticle		Katchabaw, Miel	A Realistic Reaction System for Modern Video Games					
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17	I8AVWC5R	journalArticle		Ruffino, Dr Paol	Non-Human Gaming: Video Games for the Post-Anthropocene					
18	5KIKMZAS	journalArticle		Seraphine, Fred	Bonding with Horses and Other Animals in Breath of the Wild					
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26	NV42BNVX	preprint	2023	Merino, Timothy	The Five-Dollar Model: Generating Game Maps and Sprites from Sentence Embeddings					htt
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28	DZP9F66D	journalArticle		Graham, Ross; I	Realistic Agent Movement in Dynamic Game Environments					
29	5BGQC44N	journalArticle		Summerville, Ad	Super Mario as a String: Platformer Level Generation Via LSTMs					
30	QUR8XWET	journalArticle	2009	Hung, Aaron Ch	The Order of Play: Seeing, Teaching, and Learning Meaning in Video Games					
31	X6793ESV	conferencePape	2017	Kenwright, Ben	Brief review of video games in learning & education how far we have come	SIGGRAPH Asi	978-1-4503-5409-7		10.1145/313436	htt

Scene View x Animation Editor x Render View x Composite View x Motion FX View x Geometry Spreadsheet x +

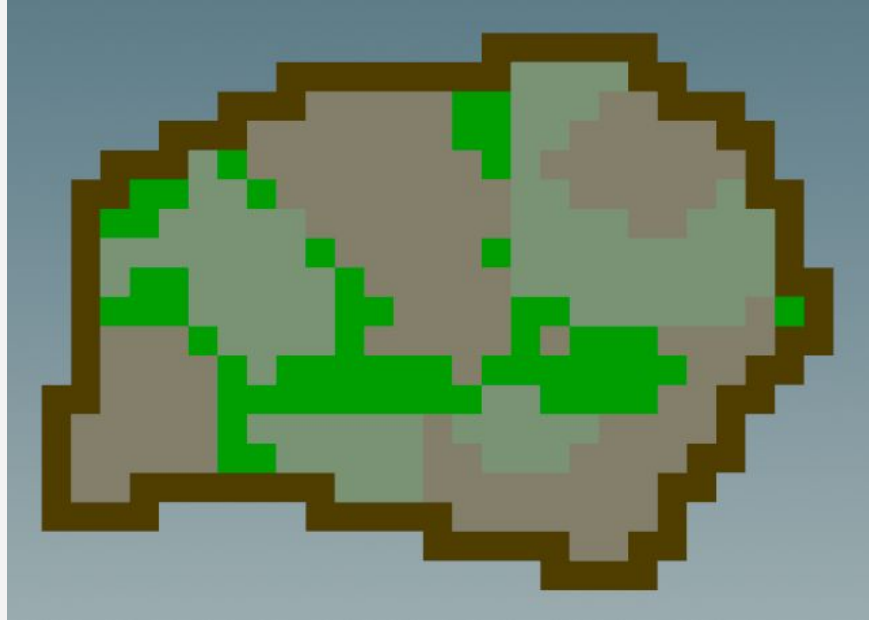
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1	-50.0	0.0	-116.667	2003	0	Henry's Garden	0
2	50.0	0.0	-116.667	0	0	https://journals-sagepub-com.proxy.lib.ohio-state.edu/doi/pdf/10.1177/104687810933512	0
3	83.3333	0.0	-150.0	2015	0	A School Gardening and Healthy Snack Program Increased Aboriginal First Nations Child	0
4	150.0	0.0	-16.6667	2017	0	A cognitive architecture for automatic gardening	0
5	-83.3333	0.0	-150.0	2021	0	Simplified modelling enhances biocontrol decision making in tomato greenhouses for th	0
6	-83.3333	0.0	-50.0	2020	0	Correlation between Indoor Environmental Data and Biometric Parameters for the Impact	0
7	-16.6667	0.0	-16.6667	2022	0	Construction of a Landscape Design and Greenery Maintenance Scheduling System Based o	0
8	-116.667	0.0	150.0	2023	0	Gardening	0
9	-150.0	0.0	-150.0	2016	0	So you want to build a generator	0
10	-150.0	0.0	-116.667	1995	0	Messy Ecosystems, Orderly Frames	0
11	-16.6667	0.0	16.6667	1988	0	Designing: Rules, types and worlds	0
12	-116.667	0.0	116.667	2003	0	Mindless repetition: Learning from computer games	0
13	50.0	0.0	150.0	2006	0	Designerly ways of knowing	0
14	16.6667	0.0	150.0	0	0	A Realistic Reaction System for Modern Video Games	0
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16	-150.0	0.0	50.0	0	0	Non-Human Gaming: Video Games for the Post-Anthropocene	0
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18	-83.3333	0.0	16.6667	0	0	Evolution and Digital Game Studies	0
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20	116.667	0.0	-16.6667	0	0	Implementing Intelligence: The Platform Culture of Intellivision	0
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24	150.0	0.0	-83.3333	0	0	Discovering Social and Aesthetic Categories of Avatars: A Bottom-Up Artificial Intell	0
25	50.0	0.0	116.667	2023	0	The Five-Dollar Model: Generating Game Maps and Sprites from Sentence Embeddings	0
26	-83.3333	0.0	150.0	0	0	Beyond Adversarial: The Case for Game AI as Storytelling	0
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30	-83.3333	0.0	-116.667	2017	0	Brief review of video games in learning & education how far we have come	0
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32	-83.3333	0.0	116.667	2005	0	Lessons learned from games for education	0
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37	-150.0	0.0	150.0	0	0	Panel: Virtual Reality and Augmented Reality for Education	0

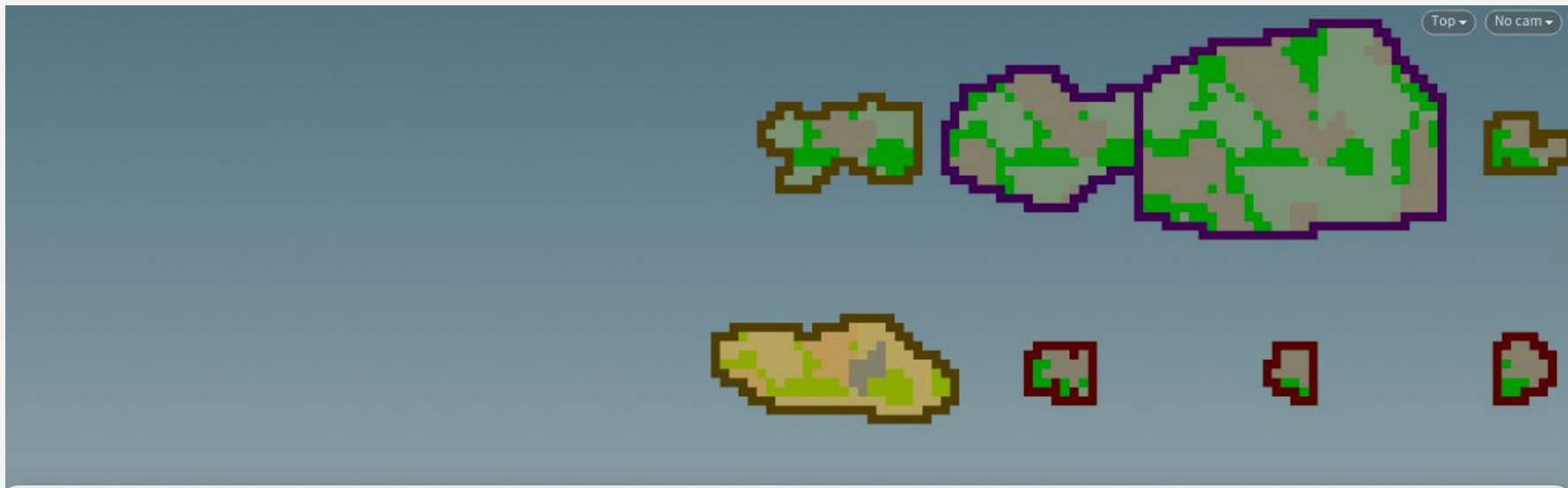
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Research interest = size of rock
Title = title of publication
Topic tag = color of rock outline



POTATO? PIXEL SOUP? ROCK?!?





Geometry Spreadsheet: output0

Node: output0

Group: View Intrinsic Attributes

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