

Creative Coding

Introduction

COD 207 - Week 01 Class →



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αλπ τυγαν

Algorithmic Art

Artworks → [Instagram](#) & [alptugan.com](#)

Music & Sound

A/V Live Coding → [RAW](#)

Performances → [Youtube](#)

Academy

Özyegin University → Communication Design
(2015...)

Studio

Filiqa Interactive → Art+Design+Technology

Projects & Open-source Apps



p5.js

OF



Spotify



Pre-survey

Please kindly respond to the questions anonymously and truthfully.

- Navigate to ÖZÜ LMS
- Fill the survey.
- Submit your answers.

🔗 Survey Link



The image features a large, bold title "CREATIVE ALGORITHMS" at the top, with a central red YouTube play button icon. Below the title is a complex network visualization. The network consists of numerous nodes represented by small white circles, which are interconnected by a dense web of thin, light-colored lines forming a branching structure. The nodes are categorized into several groups: on the left, there are nodes related to "ToolsControl" (e.g., ToolsControl, SelectionControl, PanZoomControl), "UIElements" (e.g., Header, ExpandControl, DiscretControl, Controlling, Control, Clickable, ArrowControl), "CategoryAxes" (e.g., CategoryAxes, AxisGrouping, AxisAxe), "Visualization" (e.g., ScatterPlot, ShapePanel, ControlPanel), "ScriptMath" (e.g., Derivatives, HeadlessMath), "Fitter" (e.g., Fitter, GausianFitter, ChiSquareFitter, NonlinearFitter, GeneralFitter, Fit, CurveFitter, CurveFitter2D), and "Algebra" (e.g., Algebra, And, Arithmetic, Average, Count, Expression, ComplexExpression, Element, Factor, Function, Function2D, If, InverseFunction, Power, Root, Series, Series2D). On the right side of the network, there are nodes related to "Data" (e.g., Data, DataList, DataGrid, DataSource, DataTable, Matrix), "Converters" (e.g., DataFormatConverter, GraphMathConverter, JSONConverter, XMLConverter), and "AlgebraicOperations" (e.g., Add, Subtract, Multiply, Divide, Power, Root, Factor, Function, Function2D, If, InverseFunction, Series, Series2D).





Learn Advanced Creative Coding

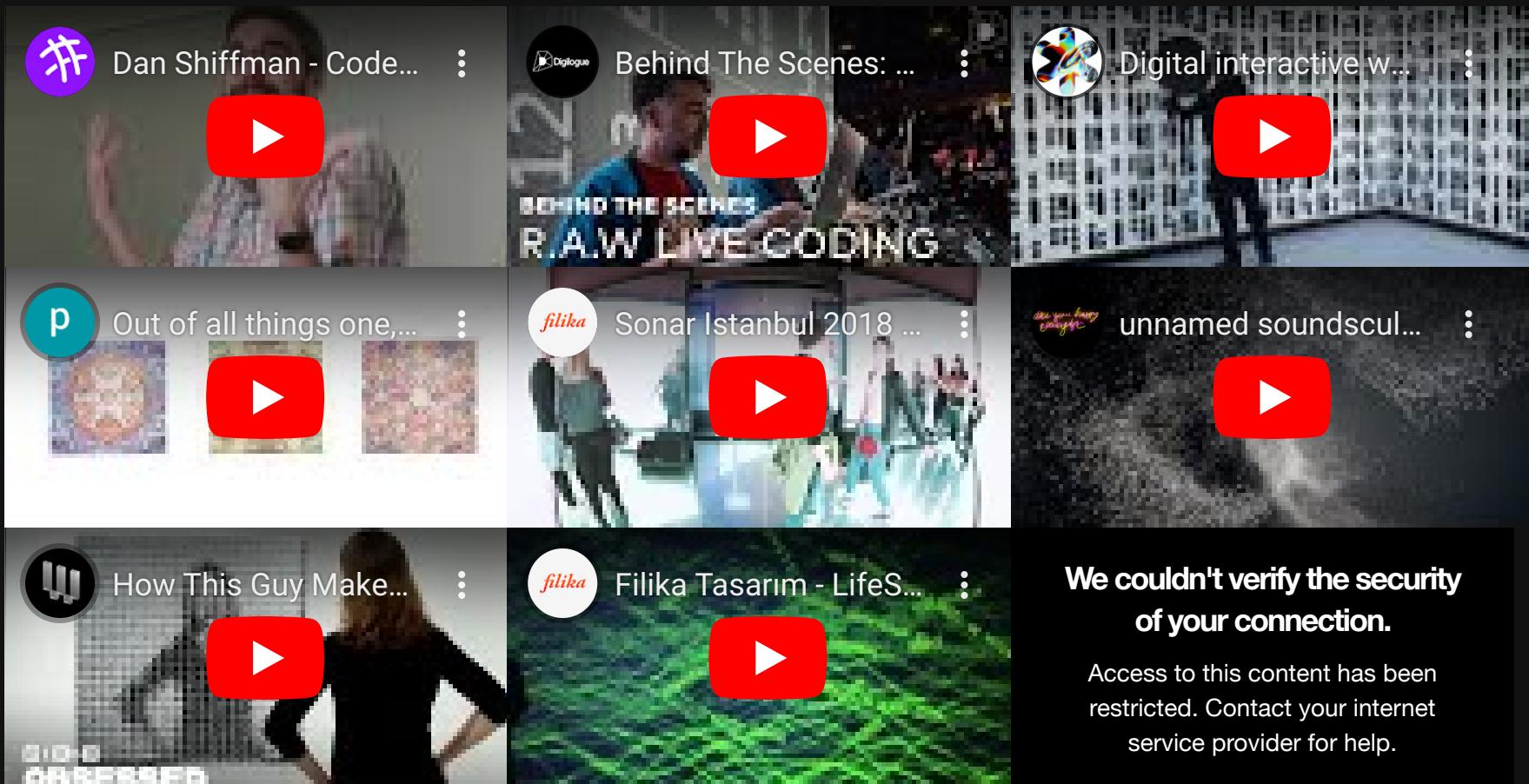


Bruno Imbrizi

DOMESTIKA

İzlemek için: YouTube







Requirements

- 🖥 Computer, Web Browser
- 👁️ Reading
- 🎧 Listening
- 💬 Asking
- ⌨️ Typing (using two hands 🙏)
- P5JS (Javascript Library)

Required Books

Make: Getting Started with p5.js

Making Interactive Graphics in JavaScript and Processing
by Lauren McCarthy, Ben Fry, and Casey Rea

Amazon link [🔗](#)

Other Resources [🔗](#)

For [PDF](#) → ÖZÜ Library.



Books on Creative Coding, Algorithmic Art, and Philosophy

- Generative Design, Benedikt Gross, Hartmut Bohnacker, Julia Laub and Claudio Lazzeroni.
- Learn JavaScript with p5.js, Engin Arslan
- Aesthetic Programming: A Handbook of Software Studies, Winnie Soon, Geoff Cox.
- A Philosophy of Software Design, John Ousterhout Clean Code, Robert C. Martin
- Generative Art A Practical Guide Using Processing, Matt Pearson

Learning Tools

- [OpenProcessing Community Page - Sign Up](#)
- [p5js Editor - Sign Up](#)
- [p5.js Tutorials by Daniel Shiffman/Coding Rainbow - YouTube](#)
- [Homepage | p5.js \(p5js.org\)](#)
- [Latest p5.js topics - Processing Foundation](#)
- [Reference | p5.js \(p5js.org\)](#)
- [Examples | p5.js \(p5js.org\)](#)

Social Media

Hashtags & Accounts

#p5js

#generativeart

#algorithmicart

#creativecoding

#codeart

#generativedesign

Course Materials

Course instructor distribute the necessary pdf documents, videos and sound recordings



Syllabus

Go to LMS and view the syllabus.





Grading

Your overall grade for the class depends on the following subjects;

- ✓ Attendance 30%
- ✍ Assignments 30%
- 🕹 Final Project 30%
- ▶ Presentation 10%



Variables

```
1 // Declaration of variables  
2  
3 var missed_assignment_Count;  
4 var missed_class_Count;  
5 var missed_final_project;
```

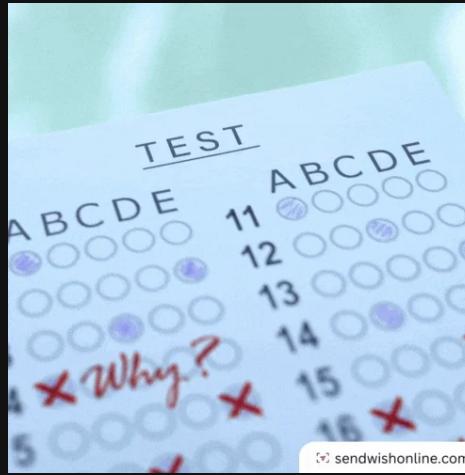
Condition 1

```
1 // Number of missed assignments
2
3 if(missed_assignment_Count > 3) {
4     failed();
5 }
```



Condition 2

```
1 // Number of missed classes  
2  
3 if(missed_class_Count > 3) {  
4     failed();  
5 }
```



Condition 3

```
1 // Missed Final Project Submission & Presentation
2
3 if(missed_final_project >= 1) {
4     failed();
5 }
```



That is why you fail.



BREAK

10 mins...

Randomseed Instagram

Account

@ COD 207 Randomseed Instagram Profile

Dualism

The conviction that all the

Omertà

Southern Italian code of silence and code of honor and conduct that places strict rules upon the behavior of members, including by forbidding conflicts with other organized groups, the government, or outsiders, especially during criminal investigations; and willfully ignoring and generally avoiding

Glitch Art is a visual style that's distinctive because of its deliberately curated digital distortions. These intentional errors create a unique and identifiable design style.

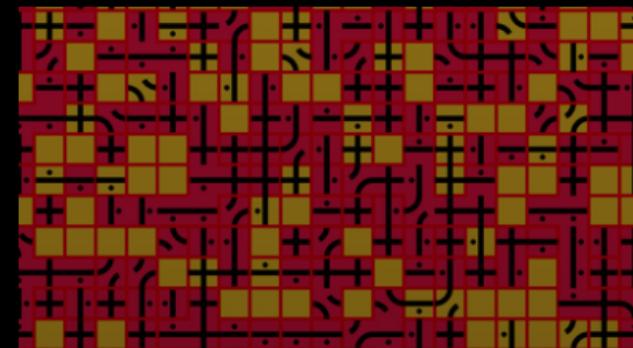
LUSION
an instance of a wrong or misinterpreted perception of a sensory experience.

ROCK 'N' ROLL

new semestre: 2023 Spring



w05_İzel_Ergül
COD207, 2023_SPRING



Youtube Playlist



Includes selected student projects

▶ Play all

Shuffle

© Creative Coding Selected Student Works

Select the output of students' projects
Izmir University Communication
Izmir Department COD 207 and COD 208
Creative Coding courses since 2015.

Sort All Videos Shorts

Save The Turtles by Ceren Kazaz

Alp Tuğan • 42 views • 1 year ago

1:36

Illusion Therapy by

Alp Tuğan • 31 views • 1 year ago

1:41

Illusion of being Stuck by Yağmur Türkyılmaz

Alp Tuğan • 24 views • 1 year ago

0:4

Random Fish by Tuna Özkan

Alp Tuğan • 27 views • 1 year ago

0:50

Pixel? by Naz İrem Sevinç.

Alp Tuğan • 31 views • 1 year ago

0:36

Do you love me?

Alp Tuğan • 44 views • 1 year ago

0:29

Find the Elephant! by Tara Terziyan

Alp Tuğan • 31 views • 1 year ago

1:51

III Student Works -
Creative Coding III

▶ PLAY ALL

COD 207 Selected Projects



Selected Projects

Includes selected student projects Creative Coding I (2021-2022)

© Creative Coding Selected Student Works

Generative Topography

A set of artificial Perlin Noise-based generative installation. The main idea of the project is inspired from topographic representations of spaces. The stylistic approach is created using perlin noise algorithms in order to create organic looking images. It is a kind of speculative artwork that mimics the development of a continental space through time.



Nerve: Audiovisual art

For a couple of weeks, I have been listening to Radiohead a lot. One thing I noticed while I was listening to them was the feeling that suffocates but levitates you at the same time. Because I could easily say that I feel their music in my nerves, I decided to name my project as 'Nerve'. With this project, I aim to create an audiovisual (a.k.a audio-reactive generative art) that represents the inner feeling while I listen to their music. For this, I am looking through their albums such as Kid A, The King of Limbs and A Moon Shaped Pool.



Toy Shop

For the final project, I am planning to create a toy shop installation with sound reactive vintage dolls inspired by Sean Hathaway's Teddy Ruxpin installations. The toy shop will be created by vector shapes or imported illustrations, depending on the process and the drafts. The user will wander inside the shop via their mouse, randomly entering different dolls' coordinates and triggering sounds matched to them. The sounds will not stop and start over each other whenever the agent moves over a doll to create a slowly increasing sound chaos.

Paylaş

Mustafa

VS

Mariko



Becoming a Creative Coder -- Designer vs. Developer #7

İzlemek için:  YouTube

RandomSeed Community Statement

This class is intended for students interested in exploring the creation of art and design with technology. We are a community of, and in solidarity with, people from every; `gender identity`, `expression`, `sexual orientation`, `race`, `ethnicity`, `language`, `neuro-type`, `size`, `disability`, `class`, `religion`, `culture`, `subculture`, `political opinion`, `age`, `skill level`, `occupation`, and `background`.

In practice

No need to be 🙄 🙅 🙊

- 👉 We insist on actively engaging with requests for feedback regardless of the frame.
- 💯 We believe in the power of community and all types of communication.
- ⛑ We are always willing to offer help or guidance.
- 🤔 You are here to ask questions, not to be questioned. We are always willing to listen.



Code of Conduct



Be mindful of your language. Any form of impolite conduct is deemed unacceptable.

Be respectful. Disagreement is not an opportunity to attack someone else's thoughts or opinions. Although views may differ, remember to approach every situation with patience and care.

Be open minded. Embrace new people and new ideas. Our community is continually evolving and we welcome positive change.





Hulk Vs Loki - Puny God



Paylaş



İzlemek için:  YouTube

Assignment 1

Due to next week's class.

- ✓ Complete Fundamentals of Creative Coding, brilliant.org (First 6 modules)

- ✍ Submit the screen shot of the page that shows completed modules.

- 📝 Write down your thoughts about what you get from the exercises shortly (min. 250 words).

- 🌐 Sign Up on openProcessing and P5JS Editor

- 📚 Read the "Preface", "Chapter 1", Hello from the book and practice on P5JS editor

- 🔗 Review the p5js page



Videos

Watch the following videos.

Generative Machines with Matt DesLauriers → [link](#)

Algorave Generation → [link](#)

Coding Creativity - how to be an artist using code? → [link](#)

Tim Holman - Generative Art Speedrun → [link](#)

How To Draw With Code | Casey Reas → [link](#)

