

A subtle, abstract background element consisting of two dark blue, wavy lines made of small dots, resembling a digital or scientific visualization.

Welcome

Orientation Day and Onboarding

T E A C H E R I N V E L Y A R T B R O U G H T

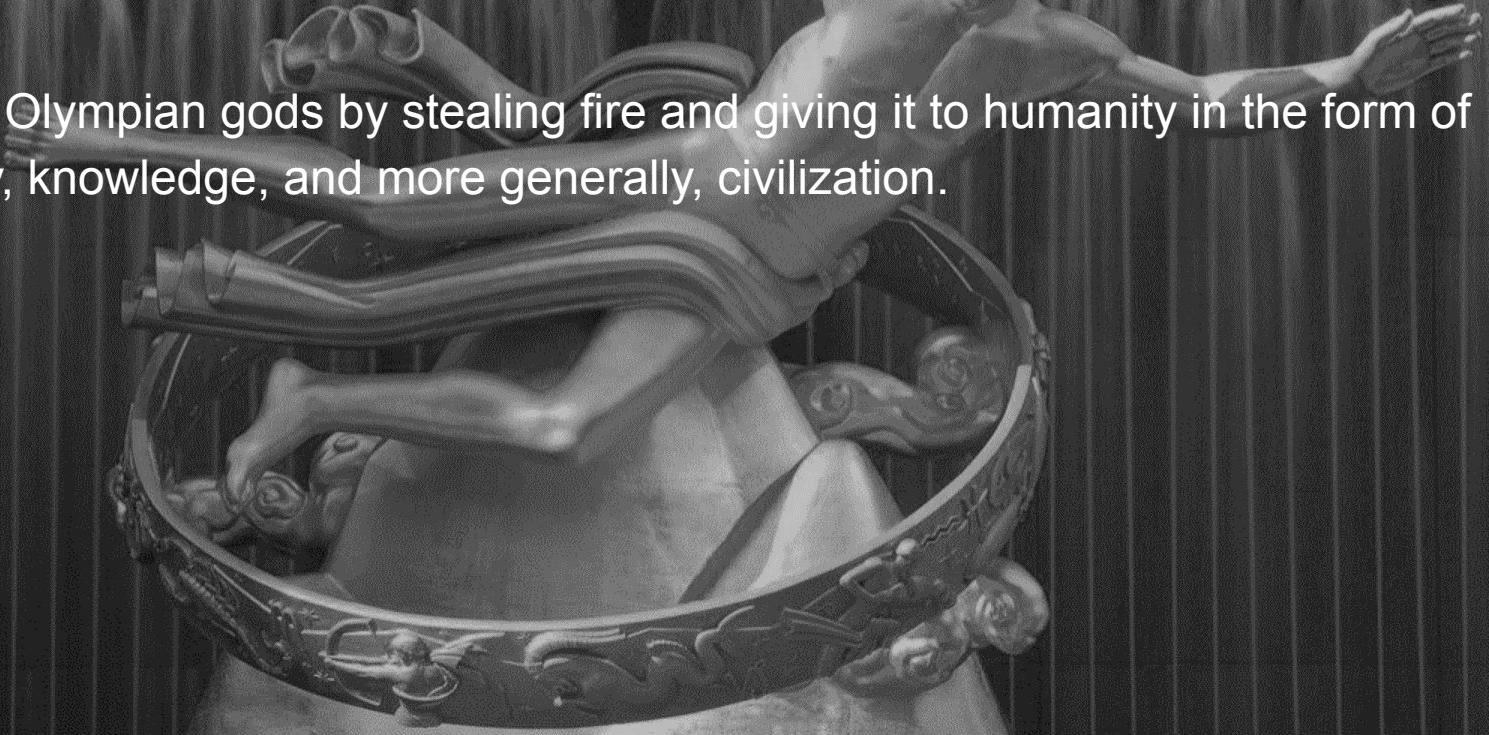
M O R T A L A M E A N S

G O

PROMETHEUS

(/prə'mi:θiəs/; Greek: Προμηθεύς, "forethought")

Defied the Olympian gods by stealing fire and giving it to humanity in the form of technology, knowledge, and more generally, civilization.



Mission and Values

Mission: To create technology that empower individuals, organizations, and anyone else to harness the power of automation for creation.

Values:

- Democratize AI
- Open-core Development
- Innovation Beyond Increment

Quick History

- Company started off working on a Microchip 3D printer
- Transitioned into software for food banks
- Major pivot: AI
 - Not because the tech seemed cool, though it did
 - Because it had so much potential that *nobody* was talking about.
- Started working on AGI - Liminal
- Refocused on Excellent
- Pivoted to Viewpoint after Customer Discovery

Quick Future

- IntelliFabric
 - CAD - Generative Product Design
 - Use user context and conversation to create design constraints and requirements
 - Translate requirements and knowledge into full, physical product designs
 - Can iterate
 - CAM - Modular, self-expanding manufacturing
 - Set up a production line, at home, with a 3D printer and a budget
 - Combine to bring not just AI to everyone, but the ability to make anything to everyone
- Xavier-One
 - A non-invasive neural Human-Computer-Interface (HCI)
 - Programming with thoughts, designing with just thoughts, *communicating* with just thoughts
 - Orders of magnitude cheaper than existing solutions

Current Activities

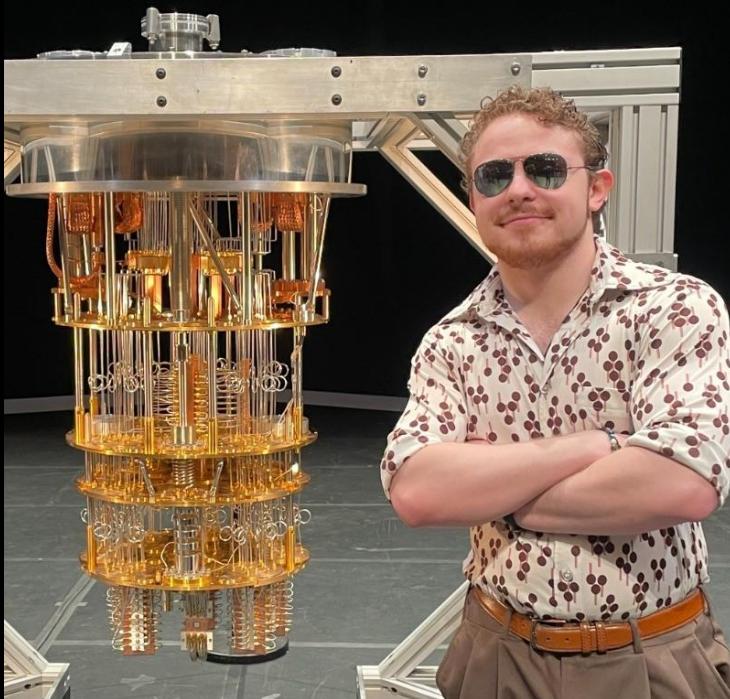
- DSP-OS 2
 - Contract work for Tech Forward Inc.
 - Digital Signage product
- Viewpoint - NL to Automation
 - No-Learning automation
 - Simpler interface
 - Broad Total Addressable Market
 - Build infrastructure and Tech for down the line
- Vox-Intuitus - Open Source
 - Social Network Anayltics: Long term, a replacement for many chatgpt uses
- GenGraph - Open Source
 - The data structures and math needed to make our tech run

Itinerary

- ❖ **Now -12:** Introductions
- ❖ **12-12:45:** Socializing/Games
- ❖ **12:45-1:30:** Lunch
- ❖ **1:30-2:30:** Trainings
- ❖ **2:30-3:30:** Onboarding/Development Blueprint
- ❖ **3:30-3:45:** Quick Break
- ❖ **3:45- 4:30:** First Standup

Introductions

Harper Chisari - Team $\lambda\sigma/\beta\delta$



Degree: EE/Phys '24 - RPI

Likes:

- Drawing
- Skiing
- CoD Mobile
- Jazz

Dislikes:

- White crown molding
- Golden oak

Yuval Shimoni - Team $\lambda\sigma$



Degree: CS '25 -Temple

Project: Open-NIM

Likes:

- Video games
- Gym
- Ping pong

Dislikes:

- Star Wars (tbf I only watched it when my English wasn't good lmao)

Kevin Scott - Team βδ



Degree: CS '23 - RPI

Project: DSP-OS 2, Special Finance

Likes:

- Mango
- Family Guy
- Project Zomboid
- Star Trek

Dislikes:

- GE

Garrett Gee - Team $\beta\delta$



Degree: CS '23 - RPI

Project: Viewpoint

Likes:

- Coding/scripting
- Osu!
- Minecraft
- Genshin Impact
- Zen Zoneless Zero

Dislikes:

- Disease
- Poverty
- Pain of any kind

Derek Rubottom - Team $\beta\delta$



Degree: CS '23 - RPI

Project: DSP-OS 2

Likes:

- Electronics/arduino
- Hiking/camping
- Video games (the more frustrating the better)

Dislikes:

- Centipedes
- hostapd hotspot creation

Shane Stoll - Team $\beta\delta$



Degree: CS '23 - RPI

Likes:

- Collecting video games
- Movies
- Watching YouTube

Dislikes: RWBY

Ashley Chan



Degree: B.S in Computer Science,
Electronic Arts Minor - RPI

Project: Website Revamp

Likes:

- Badminton
- Playing music
- children's animations :)

Dislikes: capitalism :(and igneous rocks

William Chen



Degree: B.S. in Computer Science & B.S. Information Technology/Web Science- RPI

Project: Website Revamp

Likes:

- Volleyball
- Working Out
- Cooking new recipes
- Cleaning
- Basketball
- Shopping

Dislikes:

- Unseasoned Food
- Waking up for 8am classes

Caleb Dodson



Degree: B.S. in Computer Science - RPI

Project: Vox-Intuitus

Likes:

- Drawing
- Tinkering with computers
- Video games

Dislikes: Spiders

Aoyan Sarkar



Degree: B.S. in Computer Science & B.S. Information Technology/Web Science- RPI

Project: Viewpoint

Likes:

- Video Games
- Open Source Projects
- Anime/Manga

Dislikes: Heights

Luke Summa - Team βδ



Degree: B.S. in Computer Science - RPI

Project: Open-NIM/ Vox Intuitus

Likes:

- Programming
- Minecraft
- Magic the Gathering
- Electronics/Microcontroller stuff

Dislikes: Most sports

Matthew Tavares



Degree: B.S. in Computer Science - RPI

Project: HARPGraph 2

Likes:

- Ice hockey
- Video editing
- Golfing
- Skiing
- Hiking

Dislikes: The beach

Michael Ortega



Degree: B.S. in Computer Science - Florida
Gulf Coast University

Project: Viewpoint

Likes:

- Video Games
- Traveling
- Soccer

Dislikes: Vegetables

Linus Zwaka



Degree: B.S. in Computer Science - RPI

Project: HARPGraph 2

Likes:

- Soccer
- Music
- Video games

Dislikes: Things breaking

The background features a dark, abstract design with glowing particles and light rays, creating a futuristic and dynamic feel.

Skribbl.io

The background of the slide features a dark, abstract design. It consists of several glowing, translucent light rays that converge towards the center. These rays are composed of small, white, star-like particles. The overall effect is one of depth and motion, resembling a digital or scientific visualization.

Lunch



Training and Accounts

Onboarding Form

Please fill out the following preliminary form:

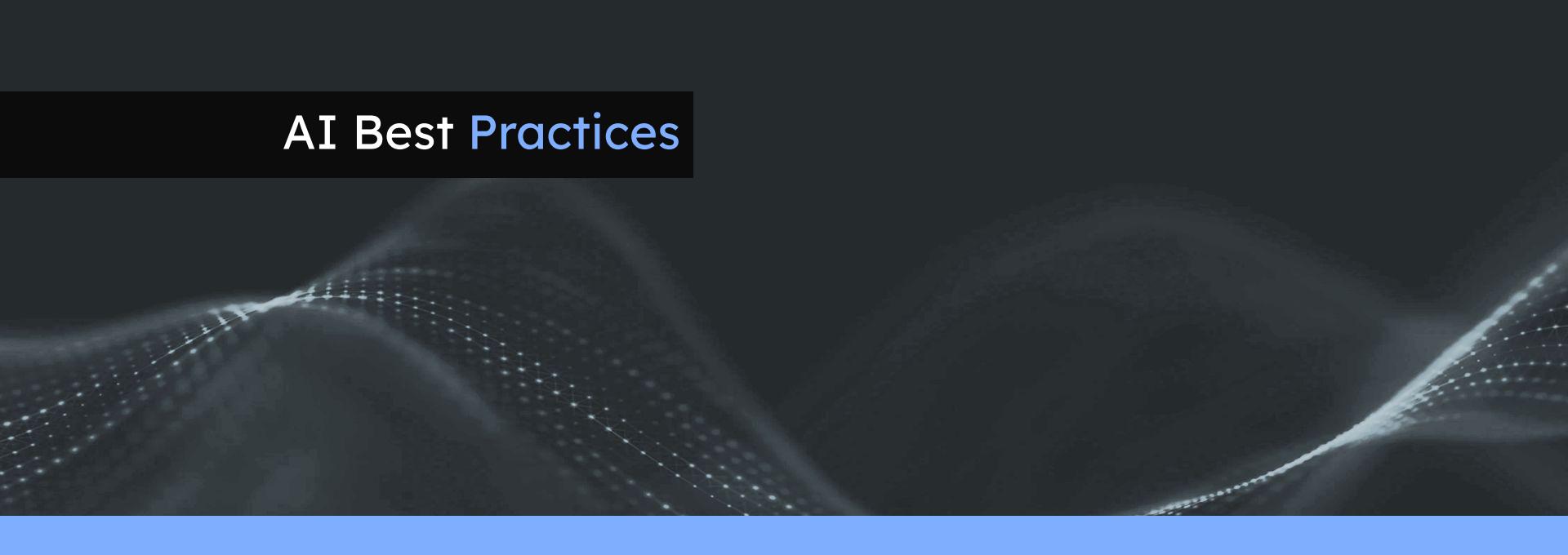
<https://forms.gle/YLzDSGLb8k7Do37H6>



Onboarding Outline

- Trainings
 - AI: Do's and Don'ts for using AI to program effectively
 - Discord: How we use our virtual office
 - Standups: What to expect and what's expected
 - GH Issues: How to use GitHub Issues effectively in our system
- Accounts:
 - MX-Route
 - Gmail
 - QuickBooks Time
 - Discord
 - GitHub Copilot
 - Zulip
 - Server
 - Paperwork

AI Best Practices



ChatGPT/Claude

AI Best Practices

ChatGPT/Claude



□ — 1hr - 15m
□

DO get examples
on how to do
something

Can you make an example of using express ws with routers?

To use `express-ws` with routers, you can follow this pattern to handle WebSocket connections within an `Express` application, while keeping everything modular with routers. Here's an example:

Steps:

1. Set up an `Express` server.
2. Use `express-ws` to enable WebSocket support.
3. Define routes for both HTTP requests and WebSocket connections within a router.

Example Code:

1. Install Dependencies

Make sure to install the required packages:

```
bash
npm install express express-ws
```

2. Server Setup with Express and WebSocket

```
javascript
const express = require('express') . . .
```

DO Make small or medium functions

Can you make a function in Python which calculates the number corresponding to the sum of all numbers corresponding to letters (1-26) in a given text string?



Here is a Python function that calculates the sum of the alphabetic positions of all letters (A = 1, B = 2, ..., Z = 26) in a given string, ignoring non-alphabetic characters:

python

Copy code

```
def alphabetic_sum(text):
    total = 0
    for char in text.lower():
        if char.isalpha(): # Check if the character is a letter
            total += ord(char) - ord('a') + 1
    return total

# Example usage:
input_string = "Hello, World!"
result = alphabetic_sum(input_string)
print(f"The sum of the alphabetic positions in '{input_string}' is {result}.")
```

DO debug your code*

Why does my page keep showing up blank? Here's my app.vue:

```
<template>
  <div id="app" class="full-screen black-background">

    <div class="main-content">
      <RibbonBar />
      <MainViewport />
    </div>
  </div>
</template>

<script>
import RibbonBar from './components/RibbonBar.vue';
import MainViewport from './components/MainViewport.vue';
import Hexagon from './components/Hexagon.vue';
```



It seems that the page showing up blank could be related to several possible issues. Here are a few things to check and debug:

1. Component Imports

You have imported `RibbonBar` and `MainViewport` components, but `Hexagon` is also imported yet not used in the template. Since it is unused, it's fine, but you might want to ensure that `RibbonBar` and `MainViewport` components are correctly defined and rendering as expected.

Check whether the `RibbonBar.vue` and `MainViewport.vue` files have valid content inside their templates and that they don't throw any errors. If any of these components fail, the parent component (`App.vue`) could show up blank.

2. CSS Rendering Issues

Ensure that your `main.css` file (imported in your scoped styles) is properly loaded and doesn't have any conflicting styles like `display: none;` on any of the main containers.

Also, check whether `black-background` from your `<div id="app" class="full-screen black-background">` class has styles defined in `main.css` that might be causing the content to not show. It could be unintentionally hiding content due to improper styling or background color.

DO create code outlines

Please outline the codebase for a chess program programmed in machine code



Creating a chess program in machine code is an incredibly challenging and low-level task, especially given that modern languages typically abstract away much of the complexity of managing memory, registers, and instruction sets. A chess program in machine code would need to manually handle these aspects, resulting in a complex, but fascinating, architecture. Here's an outline of how one could organize the codebase, conceptually breaking down the chess program into its essential components:

Key Assumptions

- You are working with a specific architecture (e.g., x86 or ARM).
- The program will manage all game logic, board state, and move generation using machine instructions.
- The program operates with direct manipulation of memory and registers.

High-Level Components:

1. Board Representation and Memory Layout
2. Move Generation Logic
3. Game Rules and Validations
4. Game Loop and I/O



DO small refactoring (with tests)

Refactor this so that it uses the new class we made to replace the main loop: <template>

```
<div :style="containerStyle">  
  <svg  
    :width="svgWidth"  
    :height="svgHeight"  
    :viewBox="viewBox"  
    xmlns="http://www.w3.org/2000/svg"  
    style="overflow: hidden"  
    @mouseover="hover = true"
```

DO Test generation*

Please make a series of tests for this element in jest: <template>

```
<div :style="containerStyle">
<svg
  :width="svgWidth"
  :height="svgHeight"
```



To write a series of Jest tests for this Vue component, we would need to mock its behavior, interactions, and ensure that key computations and DOM updates are correctly triggered. Below is a sample test suite covering different aspects of the component:

Installation of Vue Test Utils and Jest

First, make sure you have `@vue/test-utils` and `jest` installed if you haven't already:

bash

Copy code

```
npm install @vue/test-utils jest --save-dev
```

Jest Test Suite

js

Copy code

```
import { shallowMount } from '@vue/test-utils';
import Hexagon from '@/components/Hexagon.vue';
import { HexagonData } from '@/models/HexagonData';

jest.mock('@/models/HexagonData'); // Mock the imported HexagonData class

describe('Hexagon.vue', () => {
  let wrapper;
```

DO Explaining

How does this original code even work?



The original code works by creating a hyper-pseudo-digraph from an incidence matrix. Let me walk you through each part of the process:

Step 1: The `create_hyper_pseudo_digraph` function

The function takes an **incidence matrix** as input and uses it to generate a directed multigraph (`nx.MultiDiGraph`). In this graph, both **nodes** (representing regular nodes in the graph) and **hyperedges** (special nodes representing the hyperedges that connect multiple nodes) are created.

Here's what the code does step-by-step:

1. Graph Initialization:

python

Copy code

```
G = nx.MultiDiGraph()
```

- Creates an empty **directed multigraph** using NetworkX's `MultiDiGraph`. A **multigraph** allows multiple edges between the same pair of nodes, which is important for handling different kinds of directed edges in the same graph.

DO Basic Styling

Please change the whole theme to something warm and deserty



To change the theme of the SVG component to a warm, desert-like aesthetic, we'll update the colors, shapes, and overall feel to reflect the warm, dry tones typically found in desert landscapes. This would involve adjusting the stroke colors, fill colors, and possibly tweaking the behavior for visual clarity in this context.

Updated Vue Component

vue

Copy code

```
<template>
  <div :style="containerStyle">
    <svg
      :width="svgWidth"
      :height="svgHeight"
      :viewBox="viewBox"
      xmlns="http://www.w3.org/2000/svg"
      style="overflow: hidden"
      @mouseover="hover = true"
      @mouseout="hover = false"
    >
```

DONT Make a full file

Please make all the assembly code for such a program. Do not give me suggestions or outlines.

< 2/2 >



Writing a full chess program in assembly (machine code) is a large and complex task, even if approached systematically. However, I'll provide you with a simplified, minimal version in x86 assembly that covers the basics of board representation, piece movement, and a simple game loop. The program won't have advanced features like AI or checkmate detection, but it will cover the fundamental structure.

Below is an x86 assembly program for a simple chess-like environment. The following code will initialize the board, allow the user to move a piece by specifying the source and destination squares, and update the board.

x86 Assembly Chess Program (NASM syntax)

asm

Copy code

section .data

board db 64 dup(0x00) ; Allocate 64 bytes for the chess board

piece_names db 'rnbqkbnr' ; Pawns

PPPPPPPRNBQKBNR' ; Pawns

section .bss

user_input resb 4 ; Reserve 4 bytes for user input

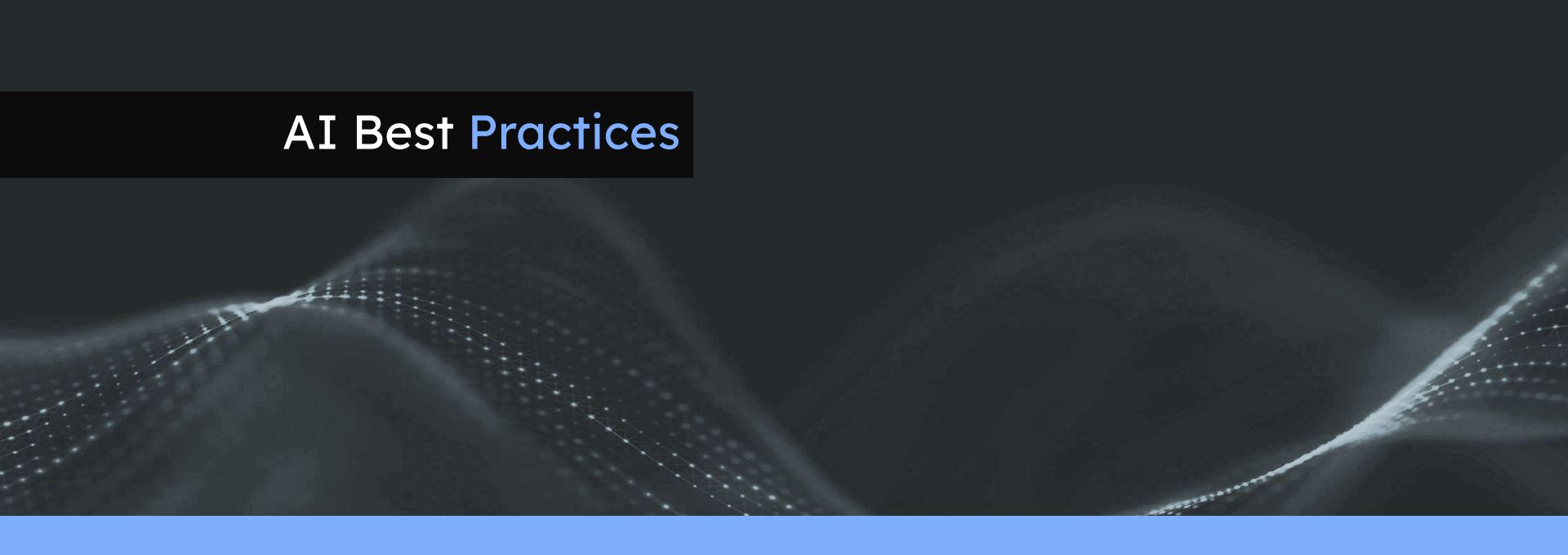
DO

- Learning from examples
- Making small or medium functions
- Debugging your code
- Creating code outlines
- SMALL refactoring (with tests)
- Test generation
- Explaining
- Coloring/ basic css

DONT

- Learning from examples
- Making large, complex function
- Ask “fix this”
- Refactor massively
- Refactor without testing
- Test generation without details
- Write code about something you don’t understand
- Overhaul the look across components

AI Best Practices



GitHub Copilot

DO use for comments

```
26
27     return G
28
29 # This function draws the graph
30 def draw_graph(G):
31     pos = graphviz_layout(G, prog='dot')
32     edge_labels = nx.get_edge_attributes(G, 'label')
33     nx.draw(G, pos, with_labels=True, node_size=3000,
34             nx.draw_networkx_edge_labels(G, pos, edge_labels=e
35             plt.show()
36
```

DO use for small functions

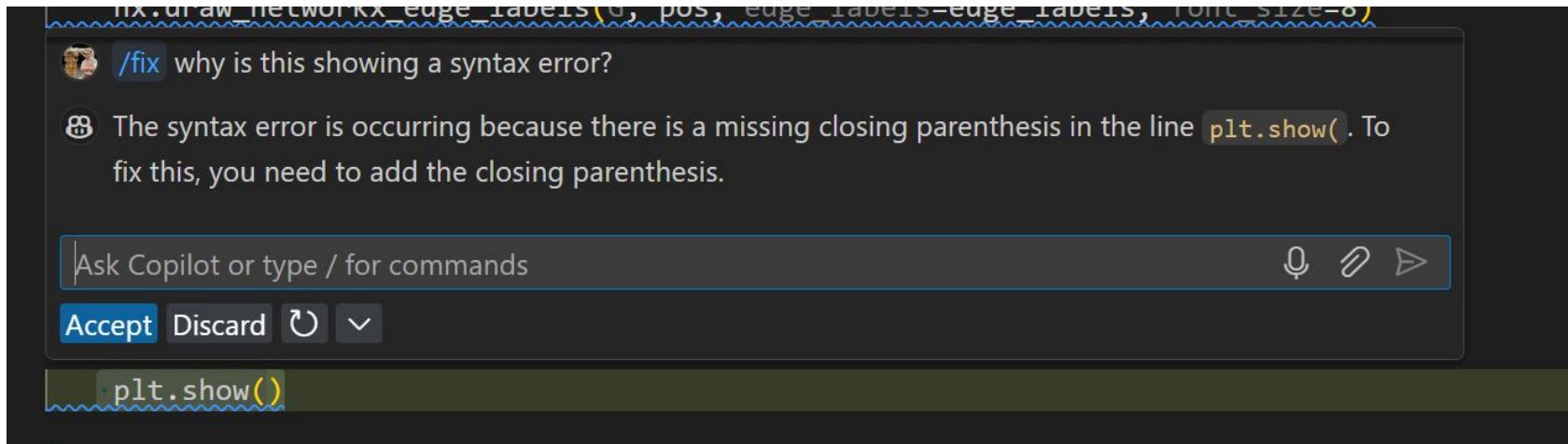
The screenshot shows the GitHub Copilot interface integrated into a code editor. At the top, there's a header with the text '# This function' followed by a prompt: 'implement a function adds two nodes to the graph'. Below this is a search bar containing 'Ask Copilot or type / for commands' and a set of icons for microphone, copy, and paste. A button at the bottom left says 'Accept' and another says 'Discard'. The main code area displays the following Python function:

```
def add_nodes_to_graph(G, num_nodes):
    for i in range(num_nodes):
        G.add_node(f'new_node_{i}')
```

DO use for easy autocorrect in the context of your project

```
36
37 | # This function returns the adjacency matrix of a graph
38 | def adjacency_matrix(G):
39 |     return nx.adjacency_matrix(G).todense()
    ✨
```

DO ask for quick syntax questions



DONT generate full functions over ~5 lines

```
36
37 | # This function emulates the entire universe in bytestrings
38 | def universe():
39 |     return b'Hello, World!'
```

DO only generally use chat for the following reasons

/fix the problems in my code

/tests add unit tests for my code

/explain how the selected code works

Ask Copilot or type / for command ⌘ ⌂ ▶ ▾

DONT pay for it!

Application
Required fields are marked with an asterisk *

What is the name of your school? *

Note: If your school is not listed, then enter the full school name and continue. You will be asked to provide further information about your school on the next page. A minimum of two characters is required to find your school.

When you click "Continue" you will be prompted to share your location with us. Providing your current location helps us verify your affiliation with your chosen school.

Continue

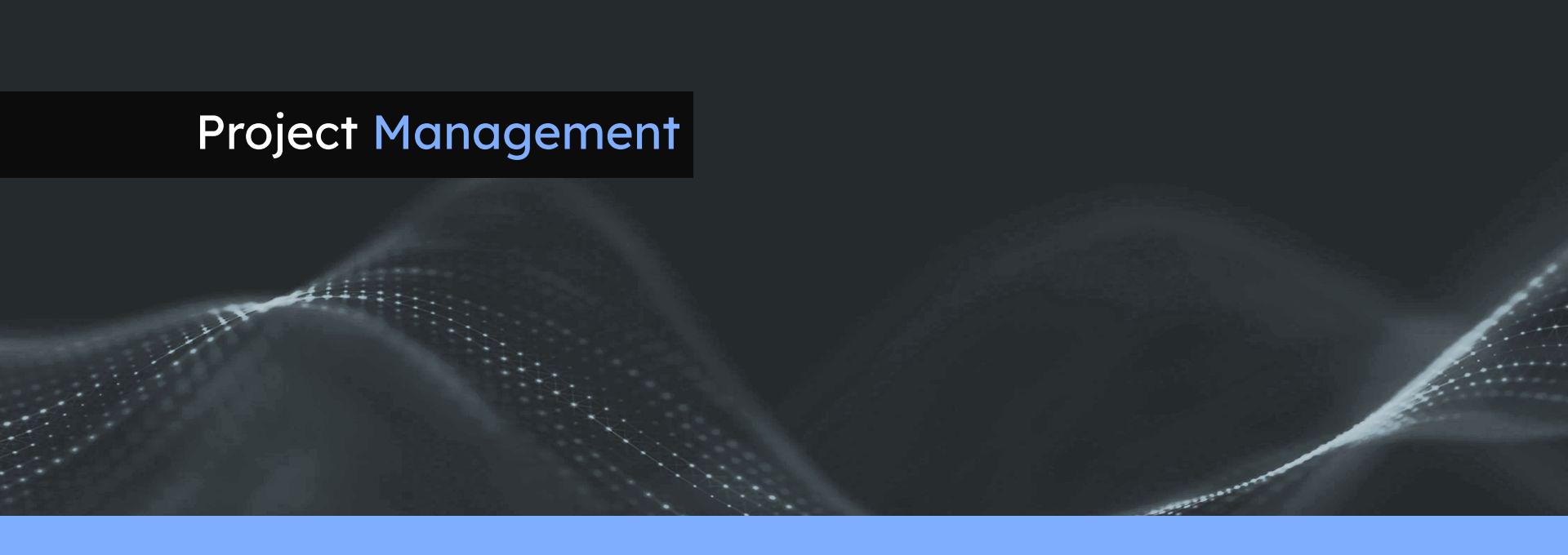
DO

- Use for comments
- Use for small functions
- Use for easy autocorrect in the context of your project
- Ask quick syntax questions
- Ask contextual questions about the codebase

DONT

- Generate full functions over 5 lines or so
- Ask questions about topics outside the scope of your project
- Pay for it!

Project Management



Discord Virtual Office

Discord Virtual Office

Voice Channels

VOICE CHANNELS



🔊 Team $\beta\delta$ - Dev. VO

🔊 Team $\lambda\sigma$ - Research VO

🔊 All Team Meeting Space

🔊 BRB

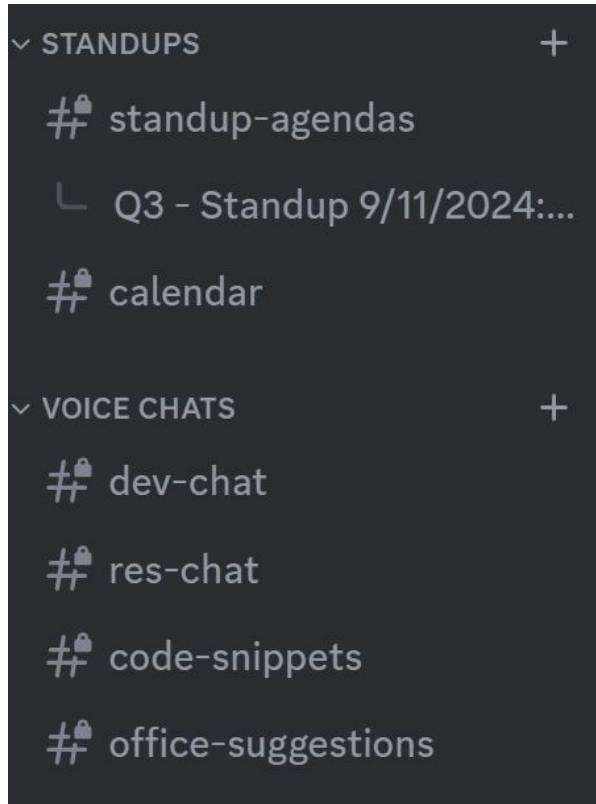
🔊 On the Phone

🔊 Do Not Disturb

- Dev - for Development team
- Research - for Research team
- If working, be in a channel.
- If in office, simply mute output
- Switch to other channels in appropriate situations

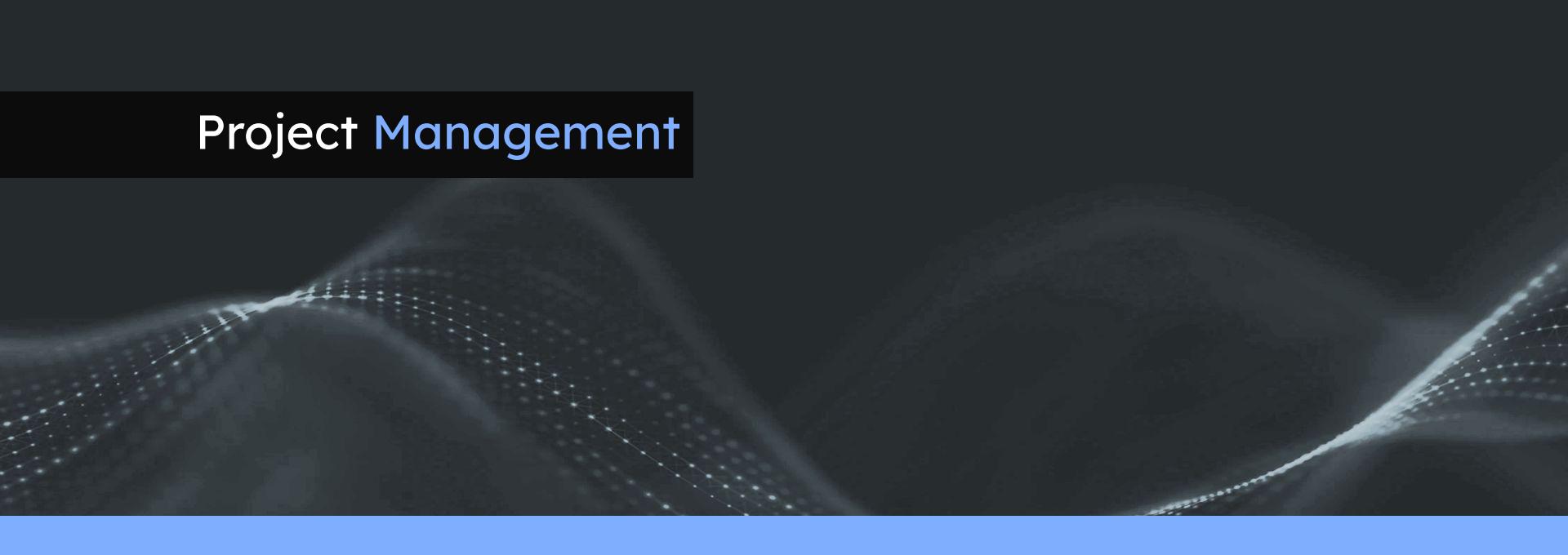
Discord Virtual Office

Text Chats



- Standup Agendas
- Calendars
- Text chats corresponding to the voice channels
- Large code snippets
- Office suggestions

Project Management



Standups

Project Management

Standups

- All-Team - Every Wednesday at 6:30 pm
- Individual teams - TBD
- Threads posted every week
- TLDRs, then the rest in team
- Just TLDRs in all-team



Harper Chisari 09/10/2024 7:55 PM

Q3 - Standup 9/11/2024: Week 7

Q3 - Standup 9/11/2024: Week 7 [10 Messages](#)

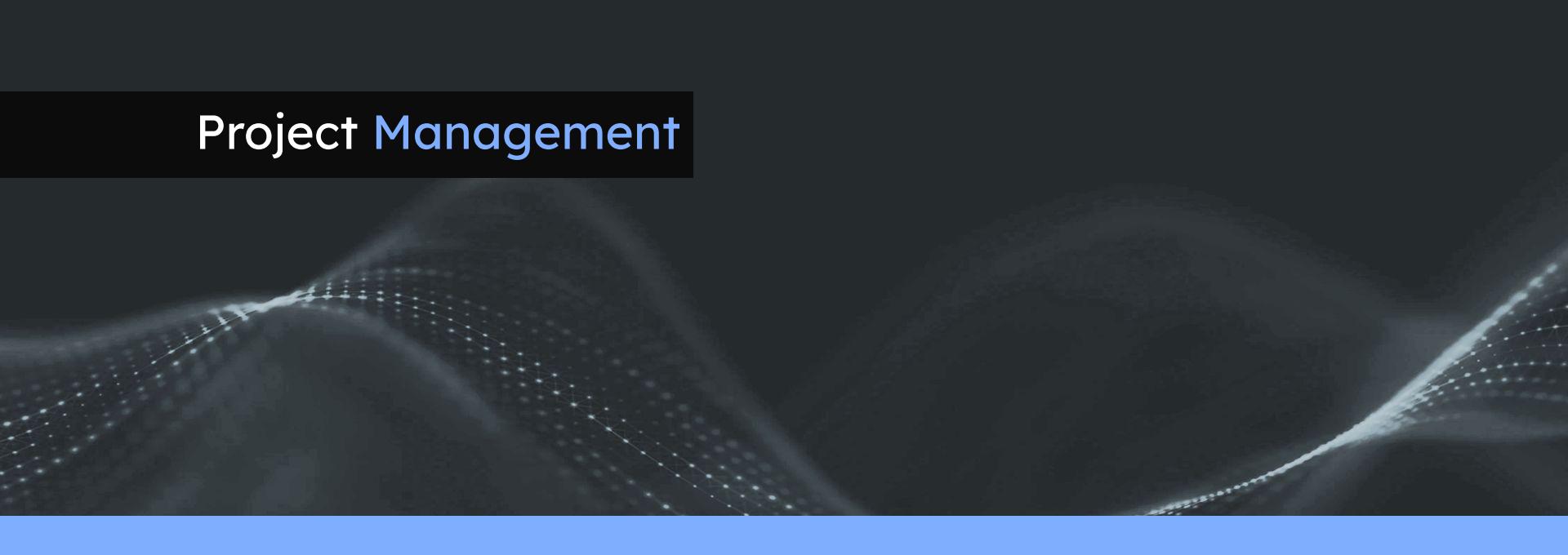
Harper Chisari ## Kevin This week: - Got wifi working - Made c



Harper Chisari Yesterday at 6:46 PM

```
### TLDR:  
I'm working on <repo 1>, <repo 2> which lets <p<br/><subsystem name> by ...  
  
### Last weeks goals:  
"My goals last week were to"  
-  
  
### This weeks progress:  
"With the goals last week, I did the following:  
-  
  
### Roadblocks:  
"This week, the main blockers I faced were"  
-  
  
### Next weeks goals:  
"Next week, my aim is to"  
-  
  
### Future Roadblocks:  
"The raodblocks I see in the future are "  
-
```

Project Management



GitHub Issues

Project Management

GitHub Issues



GitHub Projects:

- My Issues: this week's issues
- Current Issues: Team issues this week
- Backlog: All issues

The screenshot shows the GitHub Projects interface for the 'Viewpoint' project under the 'HARP-research-Inc / Projects' section. The top navigation bar includes links for 'My Issues', 'Current Issues', 'Backlog' (selected), 'Roadmap', 'Team capacity', and 'New view'. A search bar below the navigation bar contains the query '-status:Done'. The main board area displays three columns: 'No Status' (107 issues, Estimate: 9), 'Todo' (17 / 10, Estimate: 7, note: 'This item hasn't been started'), and 'In Progress' (14 issues, note: 'This is actively being worked on'). Below these columns are two sprints: 'Weekly Sprint 2' (Estimate: 0, May 15 - May 21) and 'Weekly Sprint 4' (Estimate: 5, May 30 - Jun 05). The 'Weekly Sprint 2' column contains an issue titled 'Rework CI/CD to be more similar to Hosted' assigned to 'HARP-research-Inc/Viewpoint_Core'. The bottom of the board features '+ Add item' buttons for each column.

Project Management

GitHub Issues

My Issues:

- Jira-style
- Can make a new issue for a specific repo with #repo name
- When issues are marked done or dragged to done, completes the other

The screenshot shows the Viewpoint application interface. At the top, there's a navigation bar with links for 'My Issues', 'Current Issues', 'Backlog', 'Roadmap', 'Team capacity', and 'New view'. Below the navigation, there's a search bar with the query 'assignee:@me weekly-sprint:@current'. The main area is titled 'Viewpoint' and shows three categories of issues: 'Todo' (green circle), 'In Progress' (orange circle), and 'Done' (purple circle). The 'In Progress' section has a progress bar filled with blue. A sidebar on the left lists repositories: 'viewpoint_AI_Core', 'viewpoint_Extension', 'viewpoint_Hosted-Api', 'viewpoint_Core', 'viewpoint-Demo', 'HARPGraph2', 'Open-NIM', and 'LLM-Engine'. At the bottom of the screen, there are two input fields: a plus sign followed by a '#'. The entire interface is set against a dark background.

Project Management

GitHub Issues

Issues and Milestones

- Issues
- Labels
- Subtasks
- #issue numbers

The screenshot shows the GitHub Issues page for the repository HARP-research-Inc / SoarBot_2.0. The page has a dark theme. At the top, there are navigation links: Issues (7), Pull requests, Actions, Projects, Wiki, Security, Insights, and Settings. A search bar contains the query "is:issue is:open". Below the search bar, a filter dropdown is set to "7 Open" and "2 Closed". The main area displays a list of issues and milestones:

- Help command repeats arguments** (bug) - #9 opened last week by mysticar
- Connect with google-calendar API and its own account for scheduled standups** (enhancement) - #8 opened last week by mysticar (2 tasks)
- v1.0.0** (Stable) - #6 opened last week by mysticar (2 tasks)
- v0.5.0** (Beta) - #5 opened last week by mysticar (6 tasks)
- v0.4.0** (Beta) - #4 opened last week by mysticar (3 tasks)
- v0.3.0** (Beta) - #3 opened last week by mysticar (10 tasks)
- v0.2.0** (Beta) - #2 opened last week by mysticar (7 tasks)

Issues and Milestones

- “Milestone” issues

v0.2.0 #2

Open 7 tasks mystichar opened this issue last week · 0 comments

mystichar commented last week • edited

First implementation of Standup dms

Connect with google-calendar API and its own account for scheduled standups #8

Can create regular standups by command

Can list standups

Can modify standups

adds regular threads to discord

Will dm users based on role and team in standup

Confirmation for now

...

Assignees: mystichar

Labels: Beta

Projects: SoarBot 2.0

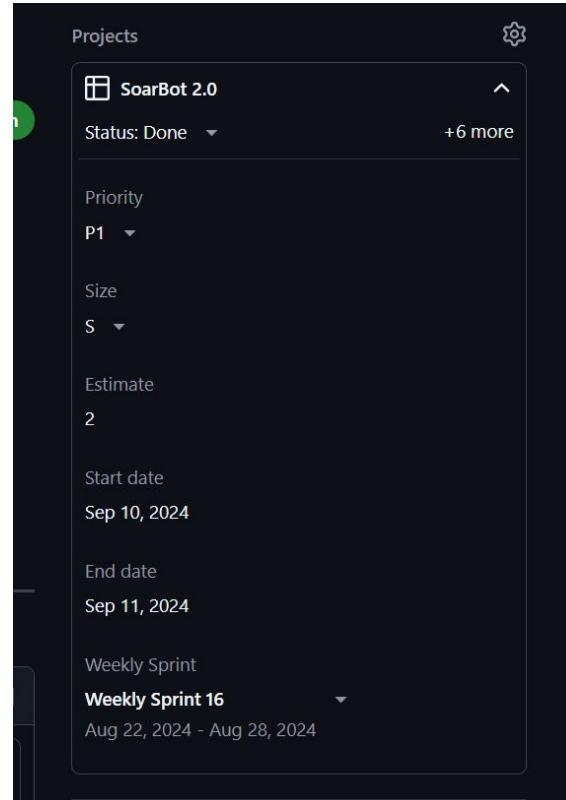
Status: In Progress +6 more

Milestone: Beta v0.2.0

mystichar added the Beta label last week

Project Details in Issues

- Priority
 - if now, P0
 - if non-critical bug fix, P1
 - If future feature, P2+
- Size/Estimate:
 - XS - 30 min - 1hr
 - S 1- 5 hr
 - M 5-15 hr
 - L 15 -25 hours
 - XL ?
- Start date/ Sprint:
 - Don't worry about end.
 - Sprint, update weekly



Issue Format:

- Shoulds have labels (enhancement or bug at minimum)
- Should have description
- Should have mostly complete project card
- Should have milestone
- Should have assignee
- Track major notes related to bugs in comments!

Project Management

GitHub Issues

Wikis:

The screenshot displays a GitHub Wiki page for the "Viewpoint AI Core" repository. The page has a dark theme and includes the following sections:

- Home**: mystichar edited this page on May 30 · 12 revisions. Buttons for "Edit" and "New page".
- Pages 11**: A list of pages including "Project Objectives", "Milestones", "Current System Architecture", "Usage", "Changelog", and "Scratchpad".
- Main Pages**: A table with two columns:
 - Project Objectives**: Project End Architecture and Objective Functionality
 - Milestones**: Main Project Versions and Milestones
 - Current System Architecture**: Overall AI Model Architecture
 - Usage**: How to use this repository
 - Changelog**: Change log for different releases
 - Scratchpad**: Scratchpad for notes on the repo
- Repository Owners**: Harper Chisari, mystichar
- Repository Contributors**: Kevin Scott, scotter1995; Kaiqi Bei, rgtdthrd
- Project Objectives**: Project End Architecture and Objective Functionality
- Milestones**: Main Project Versions and Milestones (outdated)
- Current System Architecture**: Current state of repository architecture
- Usage**: How to use this repository
- API Specifications**: Behavior, Data types, and validation for the API.
- Changelog**: Change log for different releases
- Scratchpad**: Scratchpad for notes on the repo
- Theory of Polymorphic AI**

At the bottom, it says Copyright © 2024 HARP research, Inc. Visit us at <https://harpresearch.ai>.

Project Management

GitHub Issues

Wikis:

The screenshot shows a GitHub Wiki page for the "Viewpoint AI Core" repository. The page has a dark theme.

Home

mystichar edited this page on May 30 · 12 revisions

HARP research, Inc. - Viewpoint AI

Welcome to the Viewpoint AI Core wiki!

The Viewpoint AI Core repository serves as the container for systems used in the development of our polymorphic AI automation solution for the Viewpoint project.

Main Pages	
Project Objectives	Project End Architecture and Objective Functionality
Milestones	Main Project Versions and Milestones
Current System Architecture	Overall AI Model Architecture
Usage	How to use this repository
Changelog	Change log for different releases
Scratchpad	Scratchpad for notes on the repo

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Repository Contributors	
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Kaiqi Bei	rgtdthrd

Pages 11

Project Objectives

Project End Architecture and Objective Functionality

Milestones

Main Project Versions and Milestones(outdated)

Usage

New Context Graph Design

The New Approach to Context Graph

Current System Architecture

Current state of repository architecture

Changelog

Change log for different releases

Scratchpad

Scratchpad for notes on the repo

Theory of Polymorphic AI

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Project Objectives:

- Change over time
- Primary, Secondary goals
- General approach and design

Project Objectives

Harper Chisari edited this page on Aug 1 · 1 revision

HARP research, Inc. - Viewpoint AI

CDES - Connectivity & Debug Enhancement Suite

Goals

The primary goals of the CDES are:

1. Add a User-Friendly Network Configuration Tool to DSP-OS
 - i. Assess feasibility of QR-code-based approach
 - ii. Develop testing protocol for Wi-Fi capabilities
2. Assess feasibility of USB Key deployment system for DSP setup
3. Develop a Debugging Interface
 - i. Conduct Needs assessment for key functionalities for UI Requirements
 - ii. Prototype debugging UI based on needs assessment
 - iii. Create relevant documentation
4. Create and implement a rigorous testing plan
 - i. Develop integration plan for new features
 - ii. Execute rigorous testing

Milestones:

- Correspond to issues milestones
- Document design of each and evolution
- Subject to change, as with everything else

Milestones
Harper Chisari edited this page on Jun 3 · 13 revisions

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Milestones

The following breakdown of functionality is based on the [Project Goals](#).

- **Milestone 1: Basic Email Processing** Completed no result
- **Milestone 2: LLM Email Context Graph Generation** Completed unparseable jsonpath query
- **Milestone 3: Inference Action Integration** Completed no result
- **Milestone 4: Generative AI Integration** Completed no result

Project Management

Project Milestones

P0	Viewpoint	Sub-system:	Total	Hosted	
Project:	Viewpoint	Completion:	2.53%		
Status:	Development	Maturity:	Stable	Stable	
Overview:	Viewpoint Project Overview	Version:	v1.0.0	v1	
Description:	A Natural Language interface for Outlook Automation	Status:	Not Started	N/A	
P0	HARPGraph2	Beta	Sub-system:	Total	Critical
Project:	HARPGraph2	Completion:	9.72%	Critical	
Status:	Prototype	Maturity:	Stable	Stable	
Overview:	In Progress	Version:	v1.0.0	v1	
Description:	A general graph CS and mathematic framework.	Status:	Not Started	No	
P0	Vox Intuitus	Alpha	Sub-system:	Total	Critical
Project:	Vox Intuitus	Completion:	0.00%	0.00%	0.00%
Maturity:	Alpha	Alpha	Beta	Stable	Beta
Version:	v0.1.0	v0.1.0	v0.2.0	v1.0.0	v1.1.0
Status:	In Progress	In Progress	Not Started	Not Started	Not Started
Description:	Basic POC of Docker compose functionality	Basic POC of Docker compose functionality	API spec functionality and engine files	Packaging into completed apt-get package	Workf
		TRUE	FALSE	FALSE	
		FALSE	FALSE	FALSE	
		0.5	0	0	
		1	1	1	
		In Progress	Not Started	Not Started	
22	Subsystem:	Core Package	0.00%	0.00%	0.00%
23	Maturity	Alpha	Alpha	Beta	Stable
24	Version:	v0.1.0	v0.1.0	v0.2.0	v1.0.0
25	Status	Not Started	Not Started	Not Started	Not Started

Account Onboarding

Discord

Please scan QR code to join the server:

<https://discord.gg/XWRKu6SY>



Account Onboarding

GitHub Copilot

Please scan QR code to apply for copilot student:

https://education.github.com/discount_requests/application

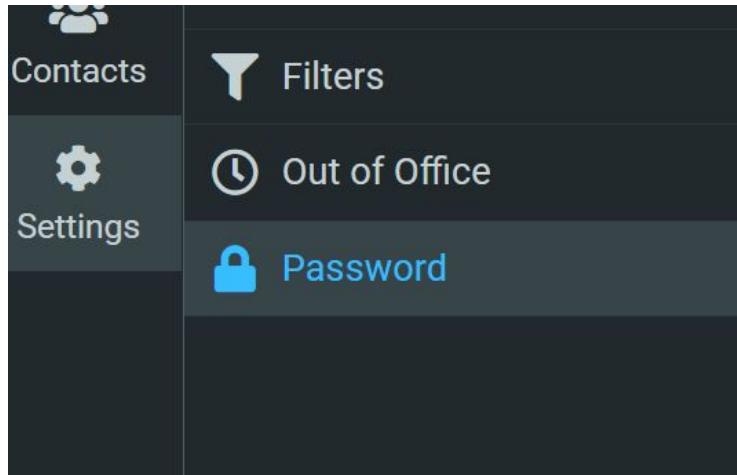


Account Onboarding

MXRoute

Check DM for Login Details:

Change Password to something secure



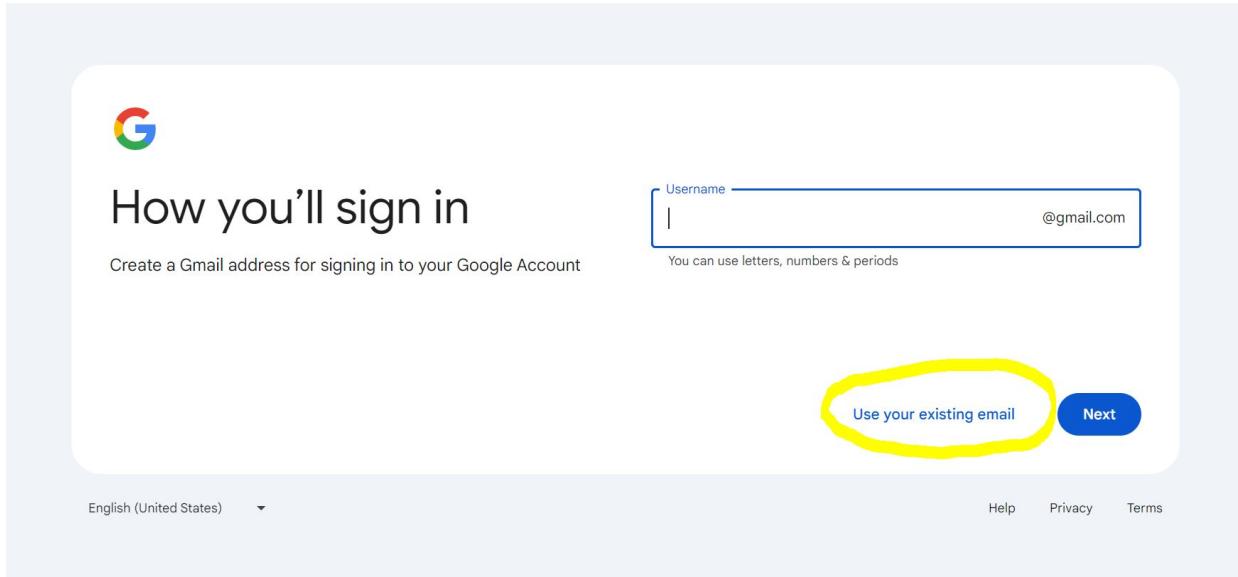
https://taylor.mxrouting.net/roundcube/?_task=login&_err=session

Account Onboarding

Gmail

Google Account (using MXRoute email):

- Go to <https://support.google.com/mail/answer/56256?hl=en> and click “Create an account”
- Fill out the basic information about the user, then on the next screen click “Use your existing email”



Account Onboarding

Gmail

- Enter your @harpsearch.ai email address created with MXRoute and press next

The screenshot shows the 'Use your existing email' step in the Gmail account setup process. It features a large Google 'G' logo and the heading 'Use your existing email'. Below it, instructions say 'Enter the email address you want to use for your Google Account'. A text input field contains the email 'test23@harpsearch.ai'. To the right of the input field, a note says 'You'll need to confirm that this email belongs to you' and a link 'Get a Gmail address instead'. At the bottom right is a blue 'Next' button. The footer includes language selection ('English (United States)'), links for 'Help', 'Privacy', and 'Terms', and a small dropdown menu.

English (United States) ▾

Help Privacy Terms

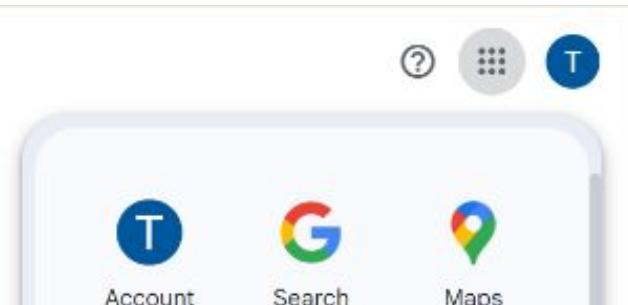
Account Onboarding

Gmail

- Enter the code sent to that email address' MXRoute inbox on the next screen
- Create a secure password
- Use your phone number to get the code and be set as a recovery number
- Confirm everything and your Google account is created

Setting up Gmail:

- Click the menu on the top right and then click the Gmail icon



Account Onboarding

Gmail

- For the Gmail address, use the format of firstname.lastname.harpresearch@gmail.com and enter the user's phone number

Add Gmail to your Google Account

By completing this form, you're upgrading to Gmail, email from Google. Gmail works on any device, blocks spam, and much more.

You'll be able to sign in using your new Gmail address, which will become the primary email address associated with this account. We'll send account updates, invitations, and other notifications to your Gmail address.

test23@harpresearch.ai will become an [alternate email address](#) on this account, and you'll still be able to sign in with it.

If you prefer, you can create a [new Google Account](#) with email, and leave this one as-is.

The screenshot shows a form for adding Gmail to a Google Account. It includes fields for Name, Choose your Gmail address, Mobile phone, and Your current email address, along with a Submit button.

Name	Test	23
Choose your Gmail address	firstname.lastname.harpresearch@gmail.com	
Mobile phone		
Your current email address	test23@harpresearch.ai	
<input type="button" value="Submit"/>		

Account Onboarding

Gmail

- For the Gmail address, use the format of firstname.lastname.harpresearch@gmail.com and enter the your phone number

Add Gmail to your Google Account

By completing this form, you're upgrading to Gmail, email from Google. Gmail works on any device, blocks spam, and much more.

You'll be able to sign in using your new Gmail address, which will become the primary email address associated with this account. We'll send account updates, invitations, and other notifications to your Gmail address.

test23@harpresearch.ai will become an [alternate email address](#) on this account, and you'll still be able to sign in with it.

If you prefer, you can create a [new Google Account](#) with email, and leave this one as-is.

The screenshot shows a form for adding Gmail to a Google Account. It includes fields for Name, Choose your Gmail address, Mobile phone, and Your current email address, along with a Submit button.

Name	Test	23
Choose your Gmail address	firstname.lastname.harpresearch@gmail.com	
Mobile phone		
Your current email address	test23@harpresearch.ai	
<input type="button" value="Submit"/>		

Account Onboarding

Gmail

- When in Gmail, click the “Settings” icon in the top right corner and then click “See All Settings”
- Go to “Accounts and Import” and then click “Add another email address” in the “Send mail as” section

The screenshot shows the Gmail settings interface. At the top, there is a navigation bar with icons for Help, Settings (which is highlighted), and other account management options. Below the navigation bar is a search bar labeled "Search mail". The main content area is titled "Settings" and includes a "General" tab and several other tabs: Labels, Inbox, Accounts and Import (which is circled in yellow), Filters and Blocked Addresses, Forwarding and POP/IMAP, Add-ons, Chat and Meet, and Advanced.

The "Accounts and Import" tab is active, and the "Send mail as" section is highlighted with a yellow circle. This section contains the following information:

- Change account settings:** Includes links to Change password, Change password recovery options, and Other Google Account settings.
- Using Gmail for work?**: Businesses get yourname@example.com email, more storage, and admin tools w
- Import mail and contacts:** Import from Yahoo!, Hotmail, AOL, or other webmail or POP3 accounts. Includes a link to Import mail and contacts.
- Send mail as:** Shows the current email address "Test 23 <test23.harpresearch@gmail.com>" and a link to Add another email address (which is circled in yellow). Subtext: "(Use Gmail to send from your other email addresses)" and "Learn more".
- Check mail from other accounts:** Includes a link to Add a mail account.

Account Onboarding

Gmail

- Enter your MXRoute email address and click “Next Step”

Add another email address you own

Enter information about your other email address.
(your name and email address will be shown on mail you send)

Name:

Email address:

Treat as an alias. [Learn more](#)

[Specify a different "reply-to" address](#) (optional)

Account Onboarding

Gmail

- Then enter the following information using your own MXRoute email address and then click “Add Account”

Add another email address you own

Send mail through your SMTP server

Configure your mail to be sent through harpresearch.ai SMTP servers [Learn more](#)

SMTP Server: Port:

Username:

Password:

Secured connection using [SSL \(recommended\)](#)

Secured connection using [TLS](#)

[Cancel](#)

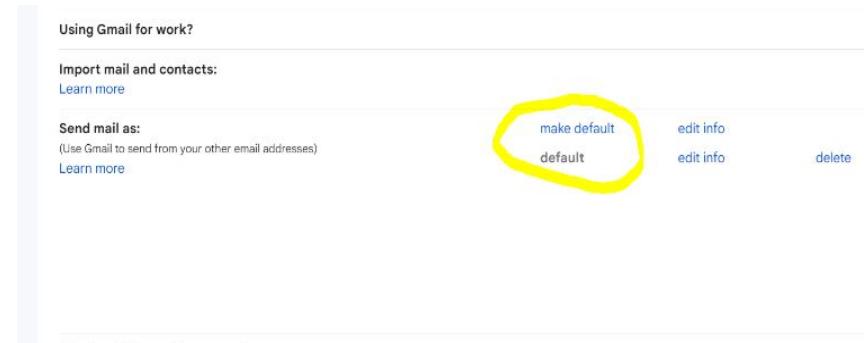
[« Back](#)

[Add Account »](#)

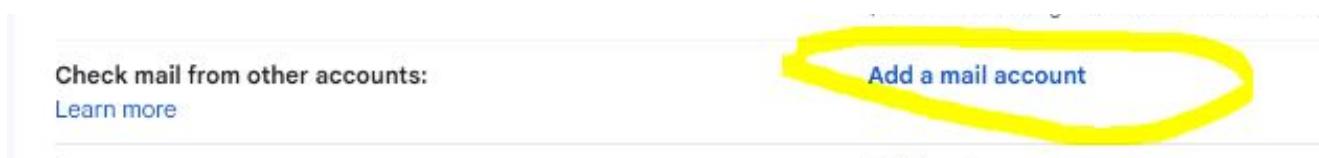
Account Onboarding

Gmail

- Click “make default” by the added email address, (already done in screenshot)



- Then in the “Check mail from other accounts” section click “Add a mail account”



Account Onboarding

Gmail

- Enter your MXRoute email address here and click “Next” and then choose that option on the next screen and hit “Next”
- Input your MXRoute email address as the username, double check the POP Server, change the port to be 995, and check the checkboxes in the screenshot

Add a mail account

Enter the email address you would like to add.

Email address:

Add a mail account

You can either import emails from test24@harpresearch.ai to your Gmail inbox, or link the accounts using Gmailify. With Gmailify, you keep both email addresses but can manage emails from both using your Gmail inbox. [More about Gmailify](#)



Link accounts with Gmailify

Gmailify is not available for this provider.



Import emails from my other account (POP3)

Account Onboarding

Gmail

- Press “Add Account” and now you are good to go, keep in mind that emails sent to your MXRoute email address will take some time to get to your Gmail inbox, so if you are looking for an email that was supposed to be sent very recently click “Check mail now” located in the same settings menu as before under “Check mail from other accounts:”

Email address: **test24@harpresearch.ai**

Username:

Password:

POP Server: Port:

Leave a copy of retrieved message on the server. [Learn more](#)

Always use a secure connection (SSL) when retrieving mail. [Learn more](#)

Label incoming messages:

Archive incoming messages (Skip the Inbox)

Check mail from other accounts: [test24@harpresearch.ai \(POP3\)](#)
[Learn more](#)

Last checked: 0 minutes ago. [View history](#) [Check mail now](#)

[Add a mail account](#)

Account Onboarding

Quickbooks/Zulip

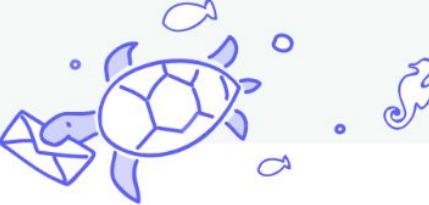
- Wait for email invitation
- Click and accept

Adam Siemiginowski has invited you to join Advanced Intelligence Center

Inbox x harper.chisari@harpresearch.ai x

Zulip <noreply-5zznnsisx7zwdpkwyedrtj4@zulip.com>
to harper.chisari ▾

Tue, A



Hi there,

[Adam Siemiginowski \(asiemiginowski@defactoglobal.com\)](#) wants you to join them on **Zulip** — the team communication tool designed for productivity.

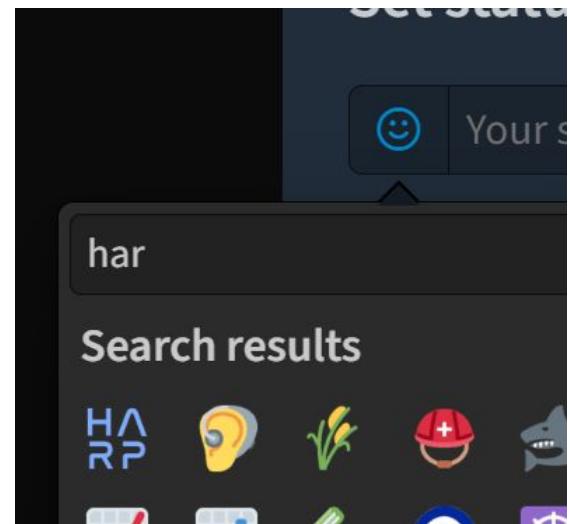
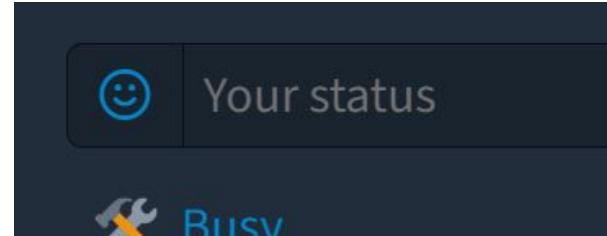
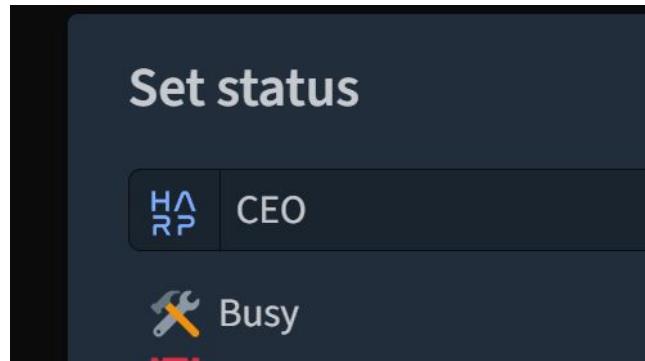
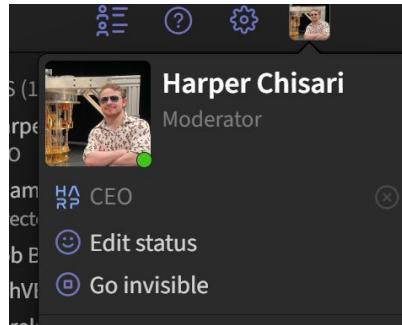
To get started, click the button below.

Complete registration

Account Onboarding

Zulip

- Edit profile status
- Add logo and role



- On school wifi, use VPN
- First, in terminal run `ssh first_last@3.tcp.ngrok.io -p 28928`
 - Replace first and last with your name
- Then sign in to github to start vscode server for your user

To use with VSCode Desktop:

1. Open the extensions tab by pressing Ctrl+Shift+X
2. Search for and install the Remote - Tunnels extension
3. Press Ctrl+Shift+P, search for Remote - Tunnels: Connect to Tunnel, and press Enter
4. Select the server from the list

Account Onboarding

Gmail

- In folder shared with gmail
- More to come, reorganizing at the moment
- Harassment Training link will be sent out for completion later

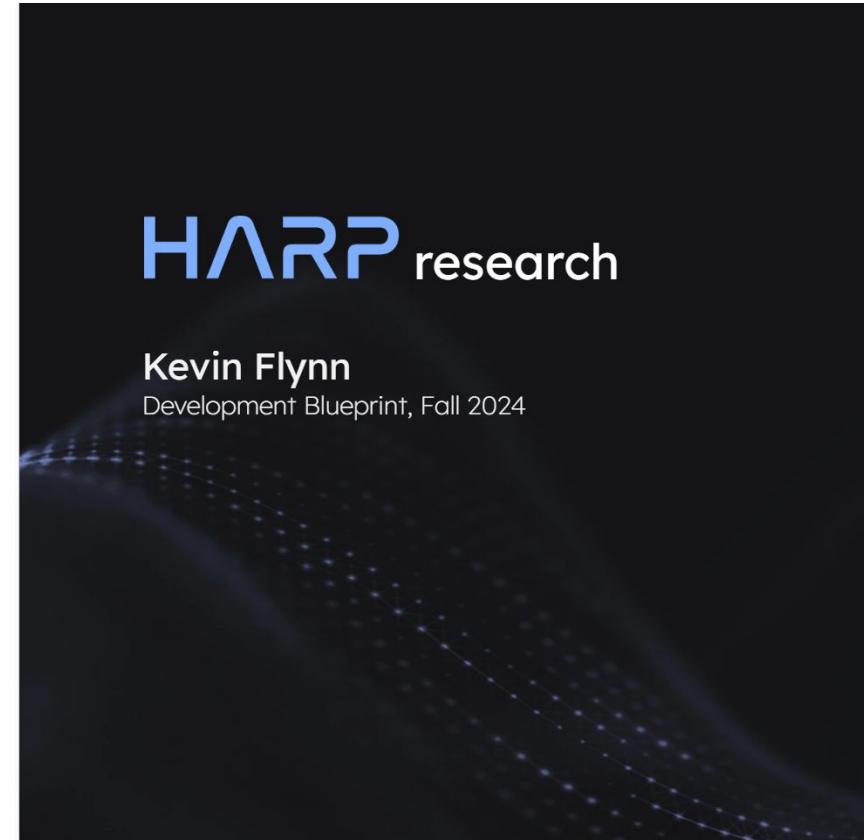


Development Blueprint

Development Blueprint

Blueprints: A living document of your experience

- Intended to be the guide and summary to your program
- Updated regularly to document project milestones and deliverables
- Please take a few moments to review and ask questions





Welcome to HARP Research!

We'll conduct the first standup shortly