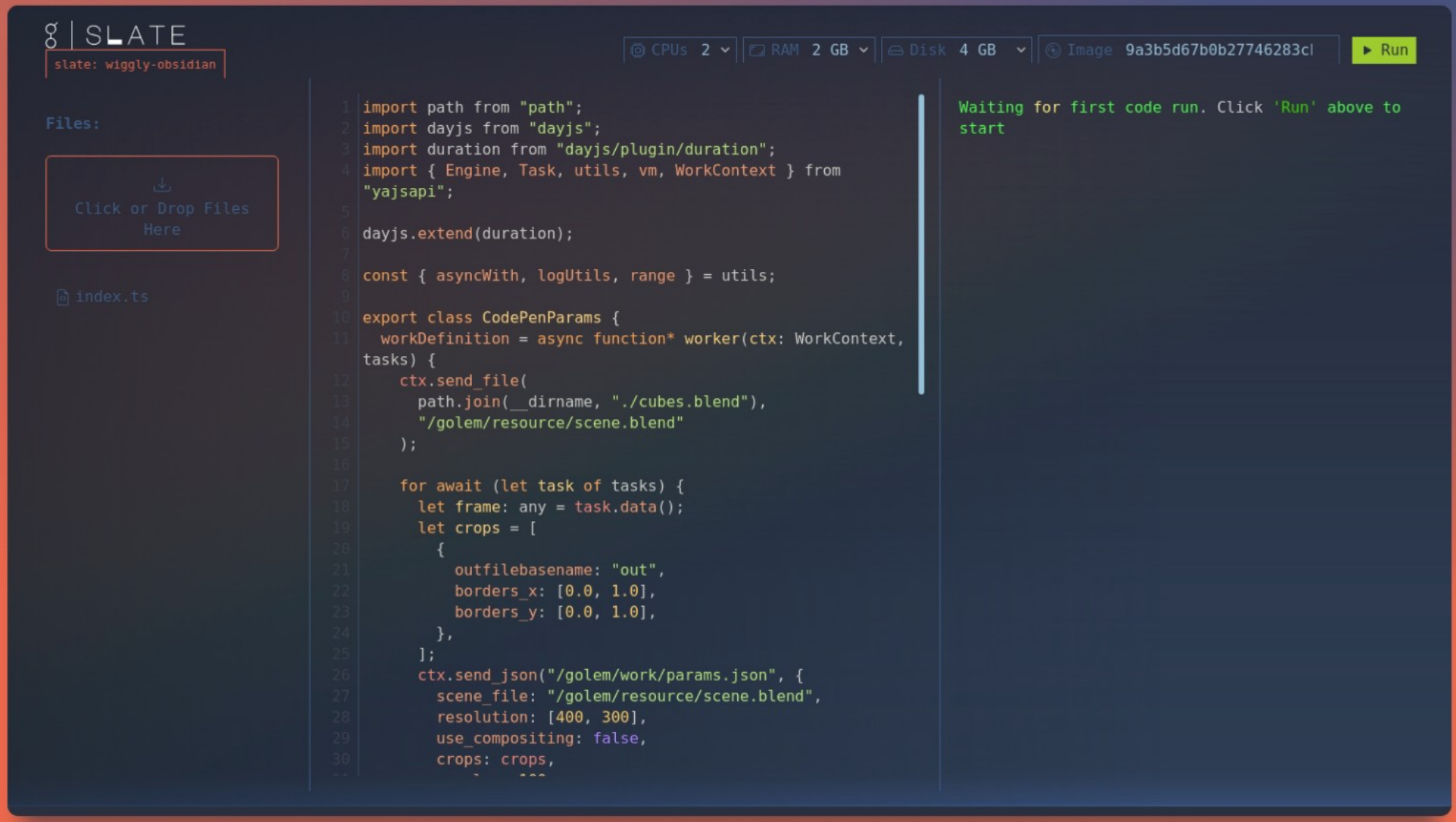
golem Alpha III Hackathon

golem SLATE

VON DEUTSCHKLUB


SLATE
slate: wiggly-obsidian
CPUs 2
RAM 2 GB
Disk 4 GB
Image 9a3b5d67b0b27746283c
Run
Files:
Click or Drop Files Here
index.ts
import path from "path";
import dayjs from "dayjs";
import duration from "dayjs/plugin/duration";
import { Engine, Task, utils, vm, WorkContext } from "yajsapi";
dayjs.extend(duration);
const { asyncWith, logUtils, range } = utils;
export class CodePenParams {
workDefinition = async function* worker(ctx: WorkContext, tasks) {
ctx.send_file(
path.join(__dirname, "./cubes.blend"),
"/golem/resource/scene.blend"
);
for await (let task of tasks) {
let frame: any = task.data();
let crops = [
{
outfilebasename: "out",
borders_x: [0.0, 1.0],
borders_y: [0.0, 1.0],
},
];
ctx.send_json("/golem/work/params.json", {
scene_file: "/golem/resource/scene.blend",
resolution: [400, 300],
use_compositing: false,
crops: crops,
Waiting for first code run. Click 'Run' above to start

Summary

- SLATE is a code pen for writing a requester script to have work computed by the golem network.
- It is an SPA that utilizes dockerized yagna environments to communicate with the golem network
- The user only needs to provide 3 things:
  - The hash for the desired gvmkit image
  - A function to enumerate the tasks
  - A function to process each task
- The user may upload files for use in the requester script
- The user may download files returned from the golem worker

How It Works

- A new slate is created for each user with the blender sample script
- The user can make changes to the script, configure the resources required, and upload files
- When ready to test, the user clicks the “Run” button and the task is sent to the golem network through a dockerized yagna agent
- The user can see the progress of running the command streaming to the web page
- The user can download files retrieved from the golem node

Future Features

- Support for Python and Javascript slates
- Support for installing extra packages
- Support for reading & writing files from:
  - HTTPS
  - WebDAV
  - AWS
  - IPFS
- Persistent workspaces

Team & Links

- Mike Cross
  - Front-end
- Derek Jarvis
  - Back-end

https://github.com/…

https://slate.dcompute.xyz