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# Zombie Startup Interpreter

A Satirical Programming Language Simulating Startup Life Cycles

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# Introduction

The Zombie Startup Interpreter (ZSI) is a unique programming language designed to simulate the financial life cycle of a startup. It features variable declarations, loops, and conditionals with startup-themed syntax.

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## Motivation

At the time of writing this, I had a total of one year's professional experience as an intern. I had already seen three layoffs and one company completely shut down its operations in Brazil. These are crazy times for tech dudes.

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## Motivation

Satirically, I built a programming language capable of simulating the finances in the life cycle of a startup. Anyone who can type on a computer can simulate a company's decisions (check design principle #1) and see if it survives or dies.

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# Design Principles

1. Absolutely everyone should be able to code Zombie Startup Script. Need to feel almost like plain text. Why? Raising venture dollars to burn it all until the end of the year is already stressful enough. No time to learn stupid code syntax, simulating a startup should be pretty straightforward.
  2. Principles don't raise venture dollars. #1 is enough.
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## Key Features

- Variable declarations and assignments
  - Loops and conditionals
  - Startup-themed syntax
  - Simple and intuitive design with plain text readability
  - Simulation of startup survival and failure
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## Syntax Example

create startup with name blob.

blob cash is 200000. blob revenue is 10000. blob expenses is 15000. blob product is "some useless OpenAI wrapper". blob team is 5.

while blob cash greater than 100000, blob expenses is blob expenses \* 2, blob cash is blob cash - blob expenses + blob revenue, blob shows "Let's grow without caring about revenue, burn it all!".

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## How it Works

ZSI uses a custom interpreter written in Python. It is separated in preprocessing, tokenizer, parser (syntactical analysis) and node evaluation (semantic analysis).

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## How to Run

1. Clone the repository: ``git clone https://github.com/victorlga/zombie-startup-interpreter``
  2. Navigate to the project directory: ``cd zombie-startup-interpreter``
  3. Run the interpreter with a test script: ``python3 main.py test_script.zs``
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