

# SPEL and GIOS overview

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# Presentation Overview

- ▶ Mission and Vision
- ▶ Market Overview
- ▶ SPEL Language
- ▶ Machine Intelligence
- ▶ Funding Model
- ▶ Governance
- ▶ Use Cases

# Mission Statement

A libreware human-incarnation-worthy General-Intelligence Operating-System (GI-OS).

**libreware** Open-source software and hardware

**incarnation-worthy** Supporting at least the homo-sapien feature set.

**General-Intelligence** AI which is adaptable to new situations.

**Operating-System** Vertical-integration from lowest layers up.

# Vision

Imagine incarnating as a robot.

- ▶ Do you own your software? Yes. Can you modify it? Yes.
- ▶ Do you own your hardware? Yes. Can you modify it? Yes.
- ▶ How many programming languages do you need to know to manage your software and hardware? One.

# Market Size

- ▶ Machine Translation, 360 mln, 0.6% slow growth
- ▶ Intelligent Virtual Assistants, 580 mln "rapid growth"
- ▶ Packaged Software 430 billion, 5% growth, moderate growth.
- ▶ Software Development (china), 690 bln, 21.4% rapid growth.

# Potential Competitors

- ▶ IBM Watson ( 30 mln to develop)
- ▶ Google Brain (Deep mind 500 mln), Human Brain Project (1bln)
- ▶ Cortana, Alexa, Siri, Viv
- ▶ Upwork (1 bln revenue), Freelancer

# Potential Allies

- ▶ OpenAI (1 Bln), OpenCog
- ▶ Linux/Minix/FreeRTOS
- ▶ GNU/FSF, Ubuntu
- ▶ Adapteva, lowRISC (open hardware)
- ▶ Python

# One Lang to Rule Them All!

- ▶ from machine code to human communication in one language, Pyash.
- ▶ using most common grammar and vocabulary of world languages.
- ▶ easily translates between formal variants of all human languages.



# Phonology

- ▶ 22 consonants, and 6 vowels
- ▶ i/i/, a/a/, u/u/, e//, o//, ɔ//
- ▶ b/b/, c//, d/d/, f/f/, g/g/, j//, k/k/, l/l/, m/m/, n/n/, p/p/, q//, r/r/, s/s/, t/t/, v/v/, w/w/, x/x/, y/j/, z/z/.
- ▶ 2 syntax consonants ". " // and "h" //
- ▶ 2 local definition consonants "1" /—/"8" //
- ▶ 2 root word types HCVC and CCVC
- ▶ 2 grammar word types CV and CCVH

# Machine Programmer

- ▶ register based virtual machine code is subset of Pyash.
- ▶ starts by evolving simple programs via genetic programming
- ▶ all generated programs are valid Pyash, so human speakable.
- ▶ thus Machine Programmer is also "fluent" in Pyash.

# SPEL Cryptocurrency

- ▶ machine programmer marketplace
- ▶ most premined coins are feature bounties
- ▶ 1/13 of coins for welfare fountain
- ▶ 1/13 of coins for IPO or sale
- ▶ 1/13 of coins for network servers

