

## psilo

a parallel, safe, inferencing list operation language for writing interesting programs. [View it on GitHub](#).

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## What is psilo?

psilo will be a programming language created with the philosophy that *all* programs essentially define (restricted) languages.

Technical Features (planned):

- No run-time garbage collection necessary owing to uniqueness types
- Static typing for compile-time verification and optimization
- Malleable syntax with macros
- Dead-simple parallelism with special array types
- Monadic continuations and iteratee composition made dead simple
- Orthogonal core syntax and semantics for your performance and my sanity

Philosophy:

- All programming is manipulating languages.
- Types define grammars; functions define parsers.
- The earlier a question may be answered, the better.
- If the computer can do it, it should.

## Status

Psilo is still being designed. I have implemented a really simple evaluator as well as this website so that when the time comes, I won't have tedious tooling or process issues getting in the way of implementation.

Additionally, the simple interpreter might be of educational value.

## How to build

You need the Glasgow Haskell Compiler and a number of libraries; I suggest starting off with [the Haskell platform](#).

Clone the repository:

```
git clone https://github.com/gatlin/psilo
```

Set up a cabal sandbox:

```
cabal sandbox init
cabal configure
cabal install --only-dependencies
```

Then make with:

```
make
```

And return to the Edenic, pre-build post-checkout status of the code with

```
make clean
```

## Questions / comments / hate mail

Use the Issues feature of GitHub or email me: [gatlin@niltag.net](mailto:gatlin@niltag.net).