

# Python 2.7 & Python 3

## A Sacred Love Story

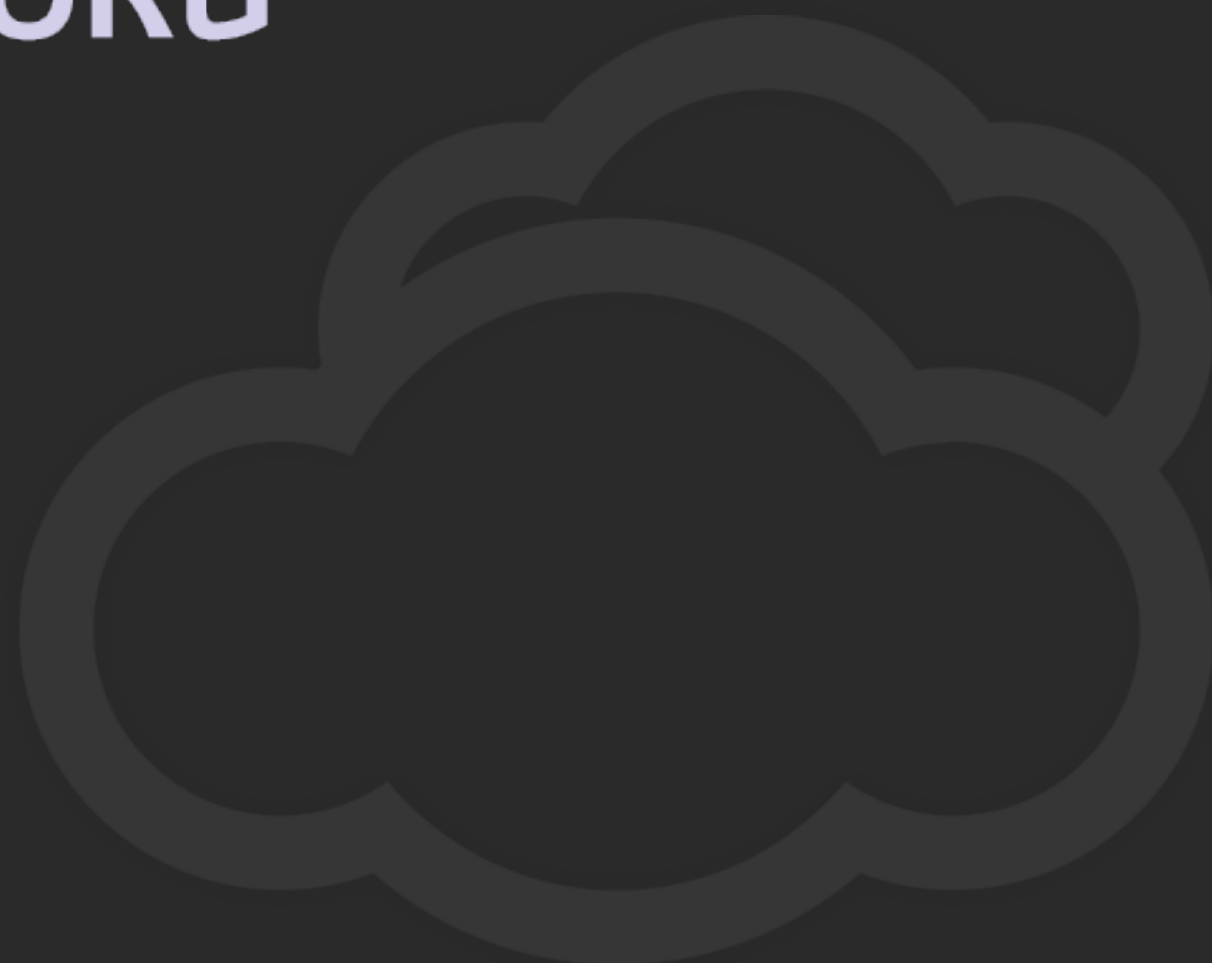


*Kenneth Reitz*

Welcome.

@kennethreitz



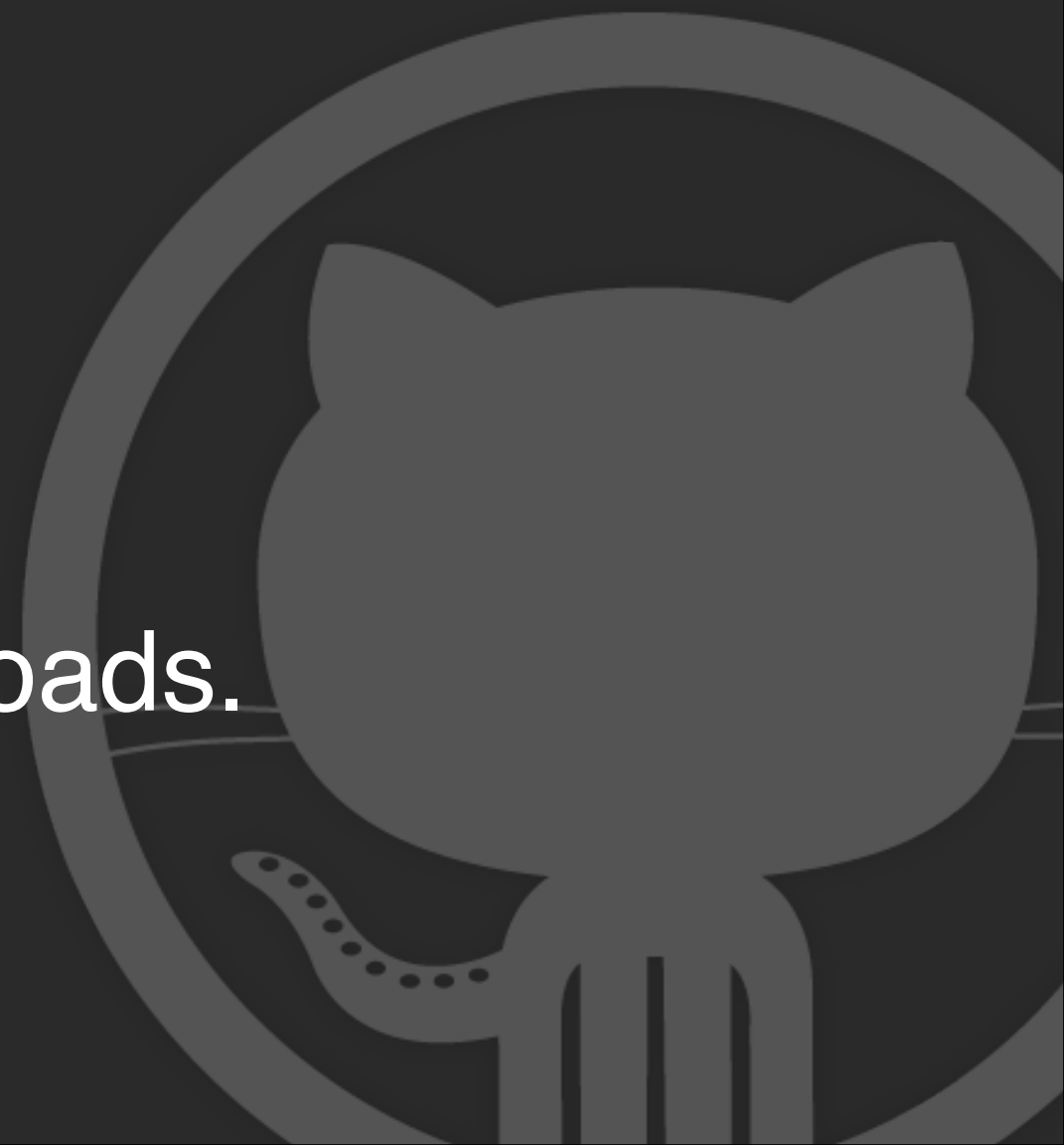


# Python Software



# github.com/**kennethreitz**

- ~18 serious projects.
- 100+ experiments.
- OSX-GCC-Installer: 56TB of downloads.
- Requests: 29+ million downloads.



# Other Interests...

- Street Photography & Photojournalism
- Synthesizers & Music Production
- World Travel (~140,000 miles last year)
- Public Speaker (29 events last year)

A decorative, symmetrical frame in a light gray color. It features ornate, swirling lines and small circular accents, resembling a stylized floral or scrollwork design. The frame is centered on the page and encloses the word "Language".

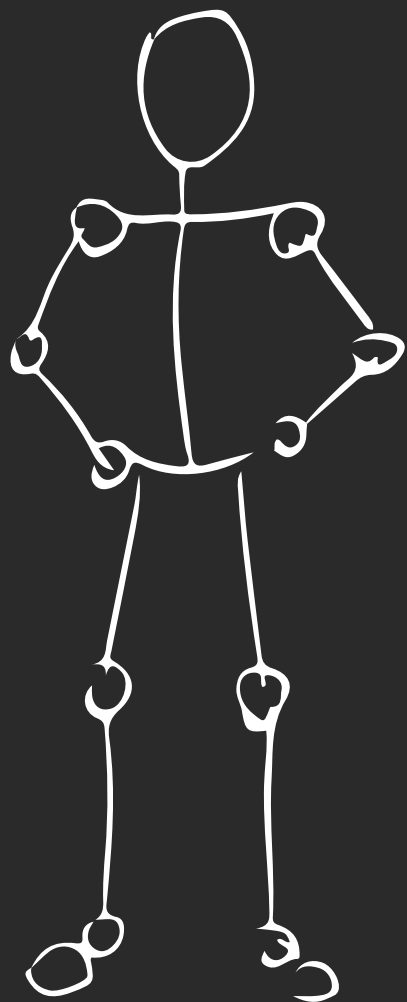
Language



# Early Human:

Alone with self &  
ideas.

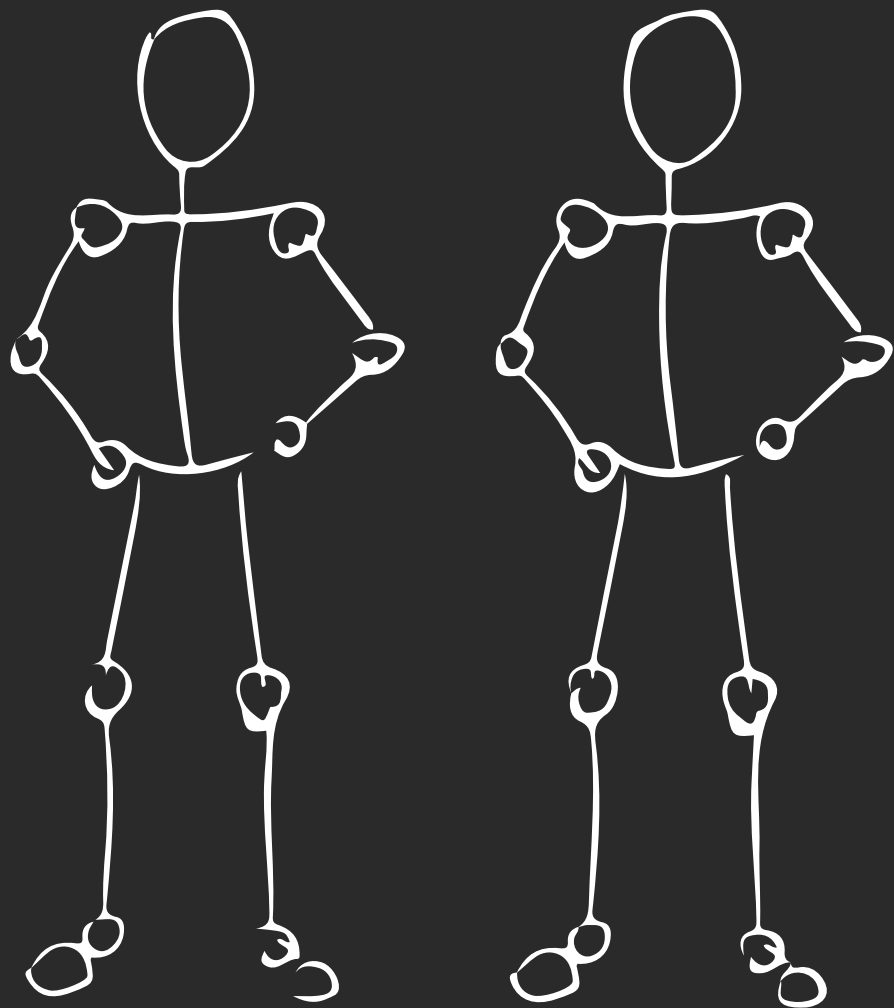
Self



# Spoken Language:

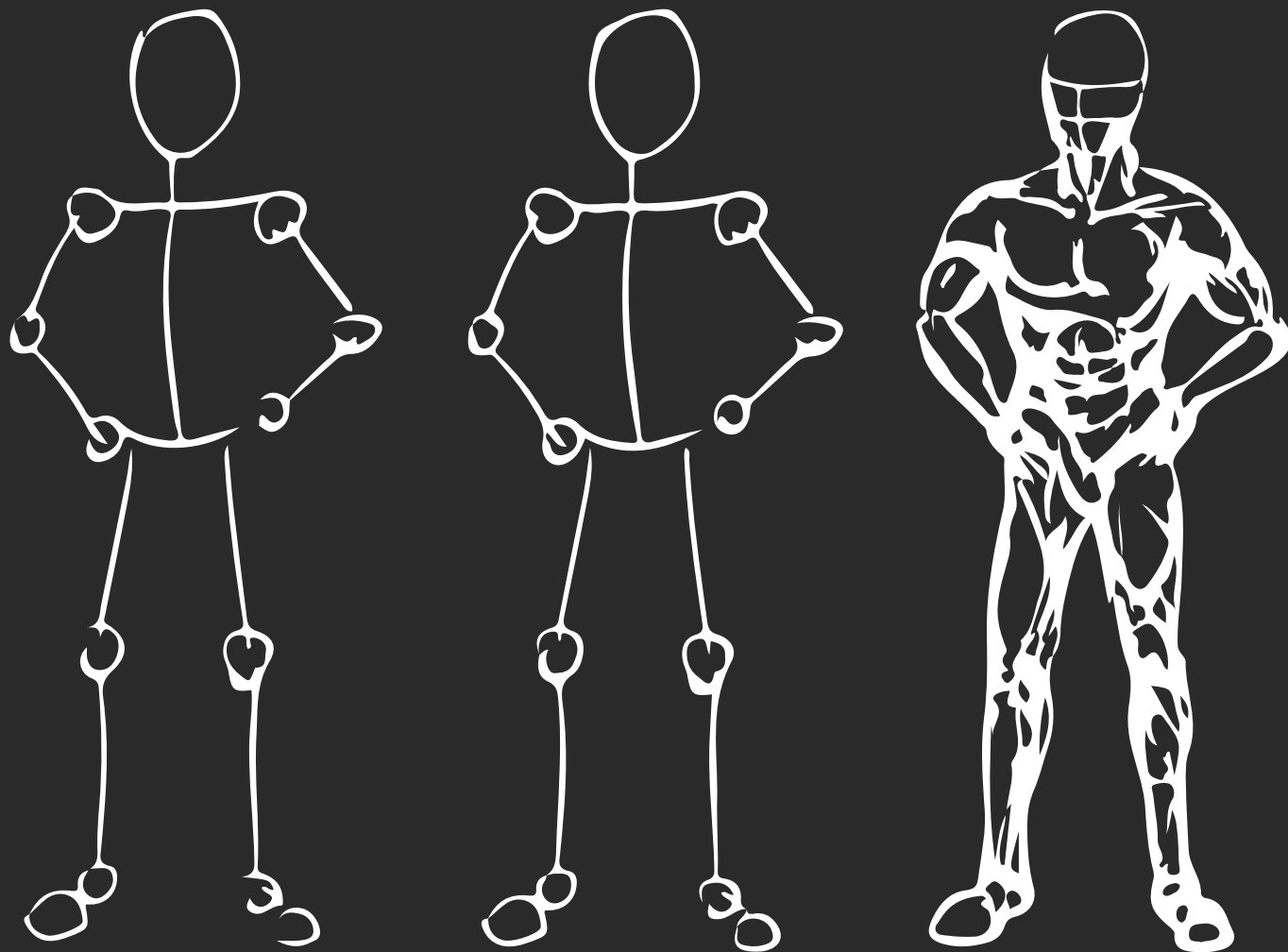
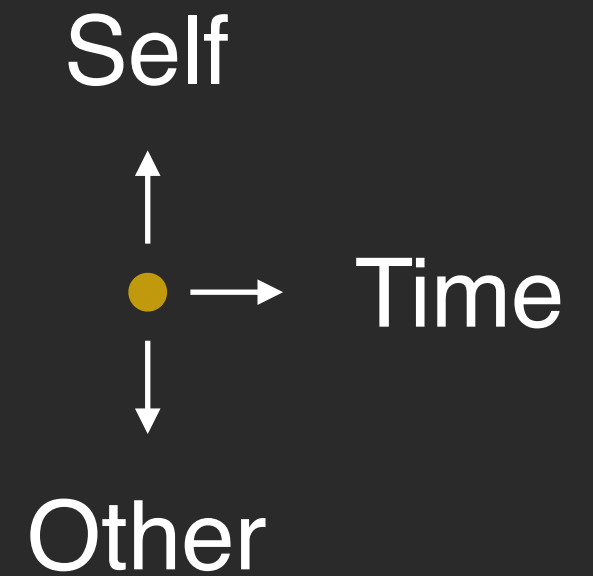
Express ideas to  
others.

Self  
↑  
●  
↓  
Other



# Written Language:

Persists ideas over  
time.



Human hardware hasn't  
changed —

The software has been  
upgraded.

# Communication: One-to-One.

At first, language was mostly used for a single person to communicate to another single person, or a small group of people.

This is no longer the case.







# Communication: One-to-Many.

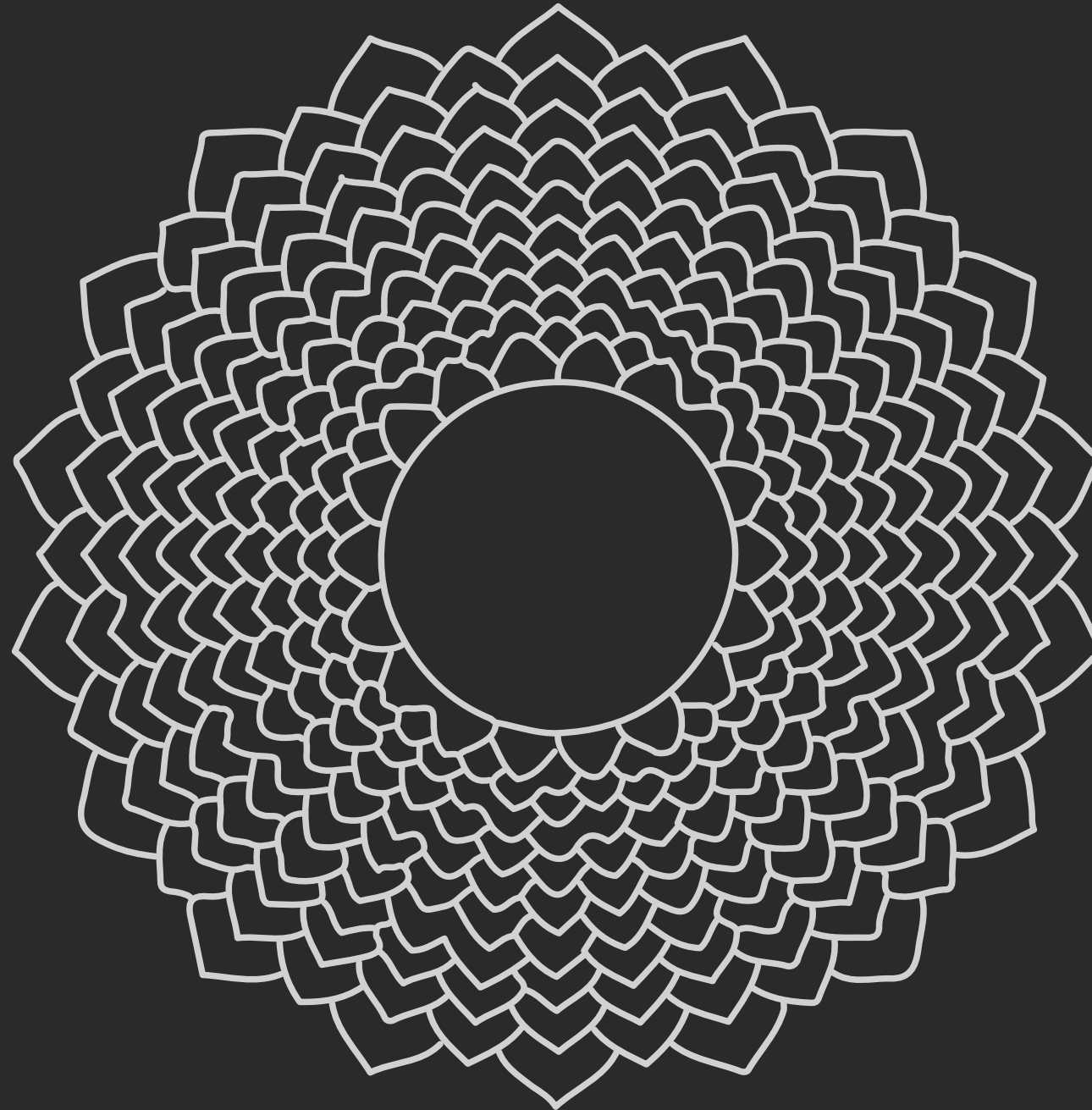
- After the printing press, a single privileged entity could communicate to the masses.
- Newspapers, Books, Television, Radio, etc.
- This formed the narrative of "the public".

Communication: Many-to-  
Many.





# The Internet!



# Communication: Many-to-Many.

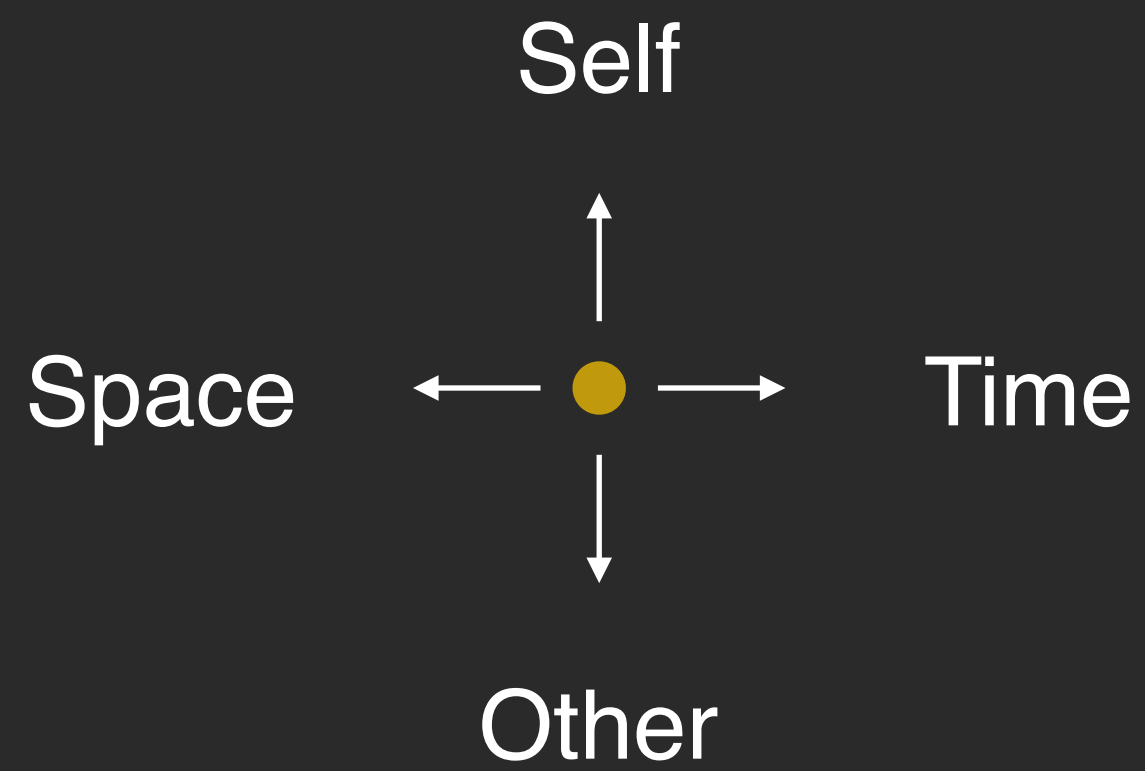
- If you have access to the internet, you have access to a universe of information and ideas.
- Anyone can publish anything to any number of people, large or small. A level playing field.
- The implications of this are huge.

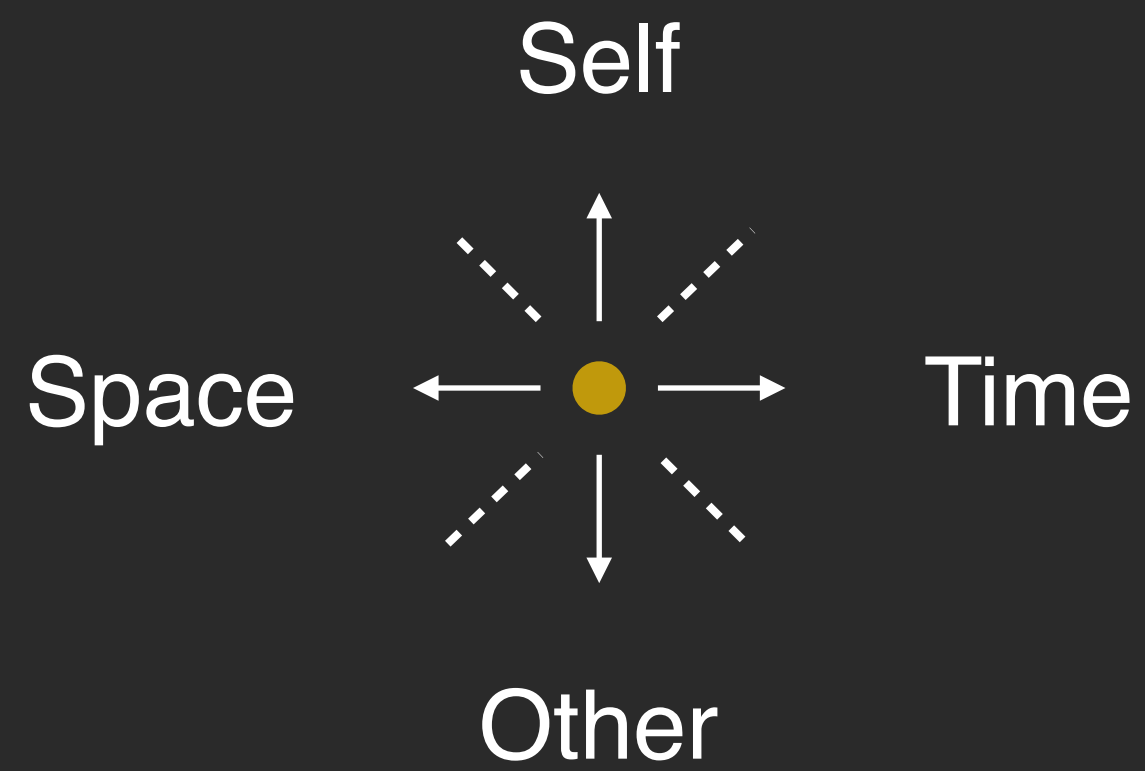
Self

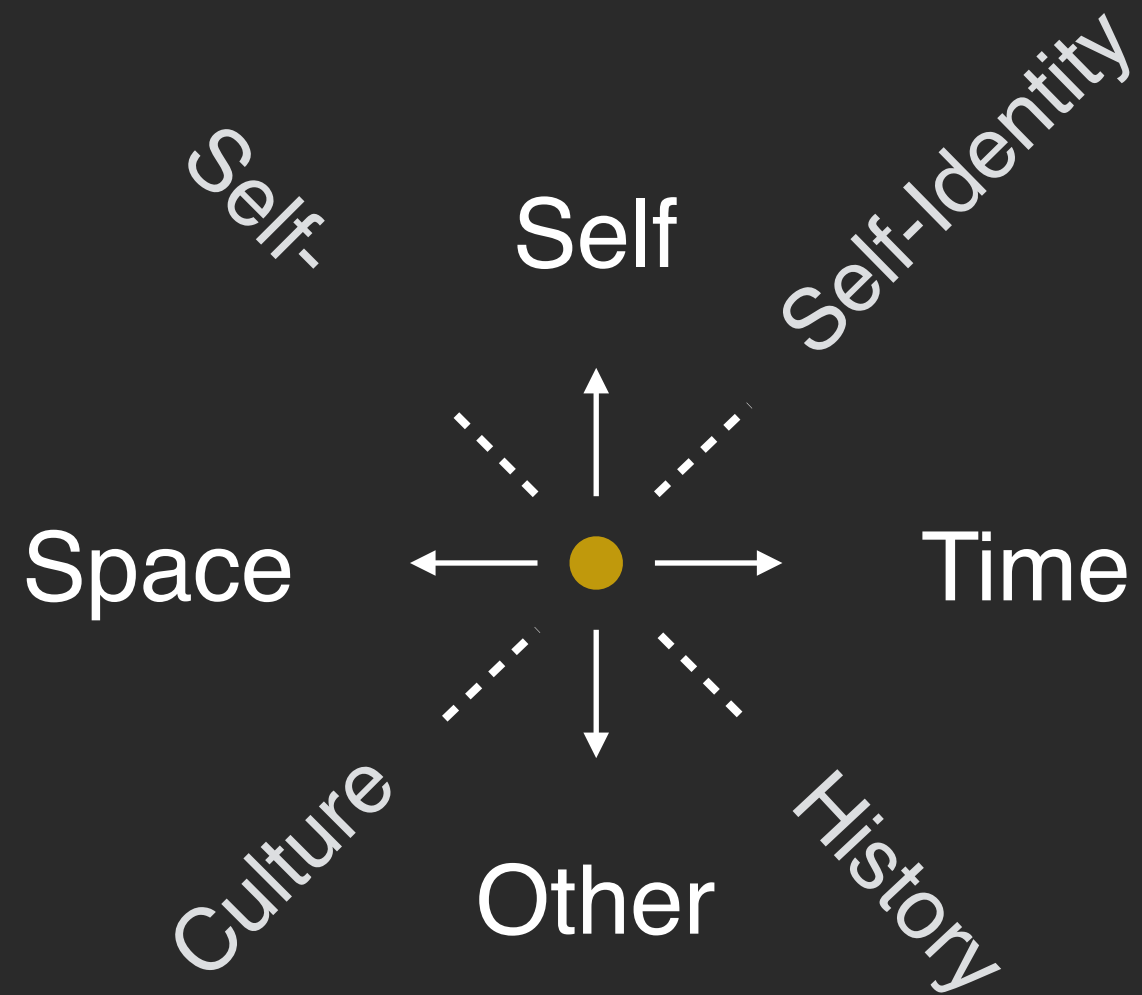


Time

Other

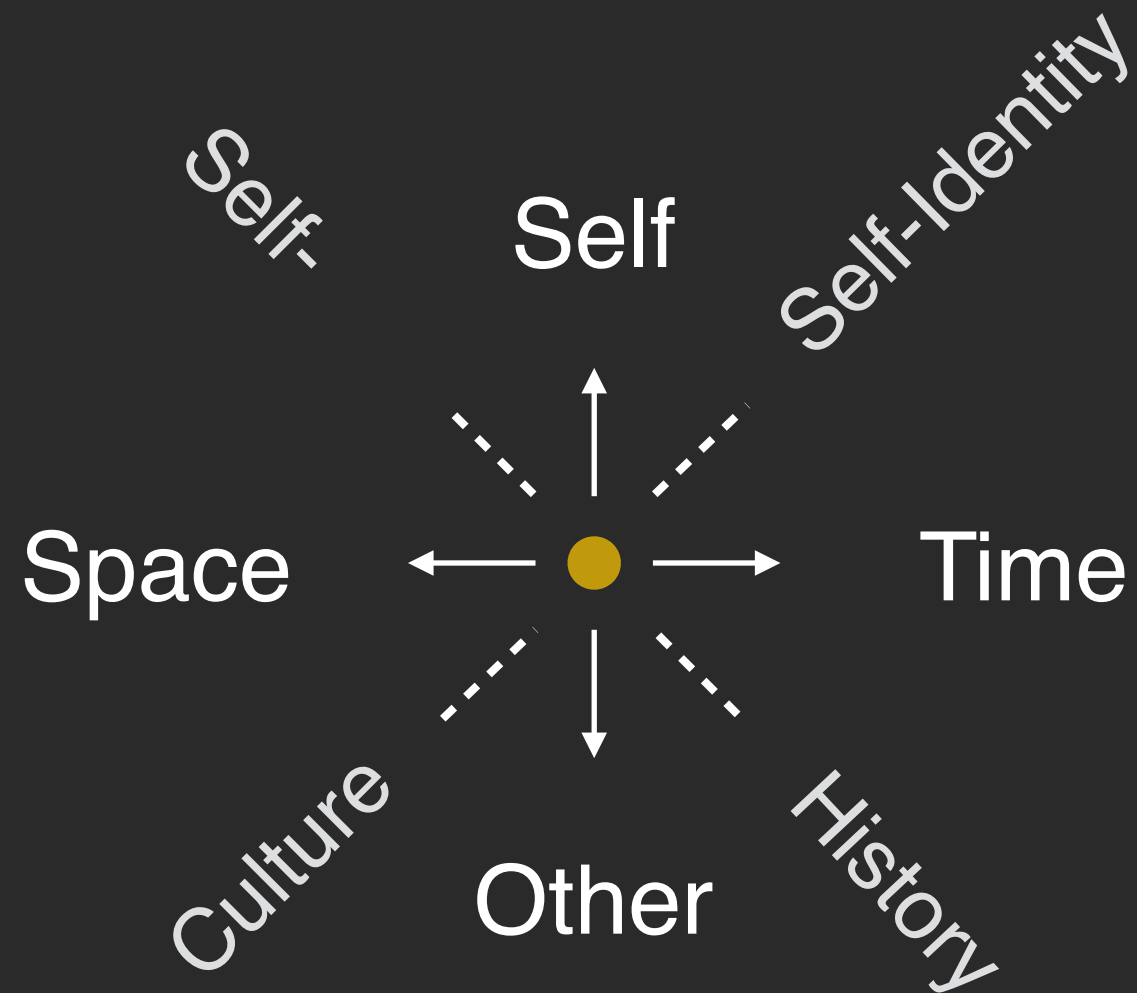






Creation &  
Publishing

Consumption &  
Discovery

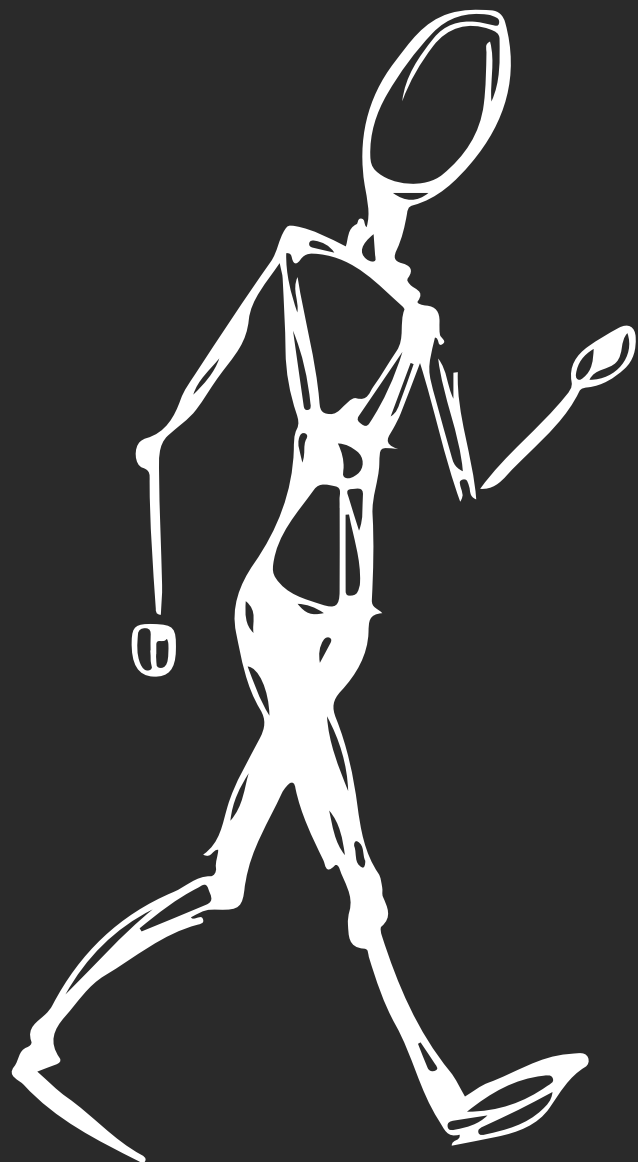


Social Media

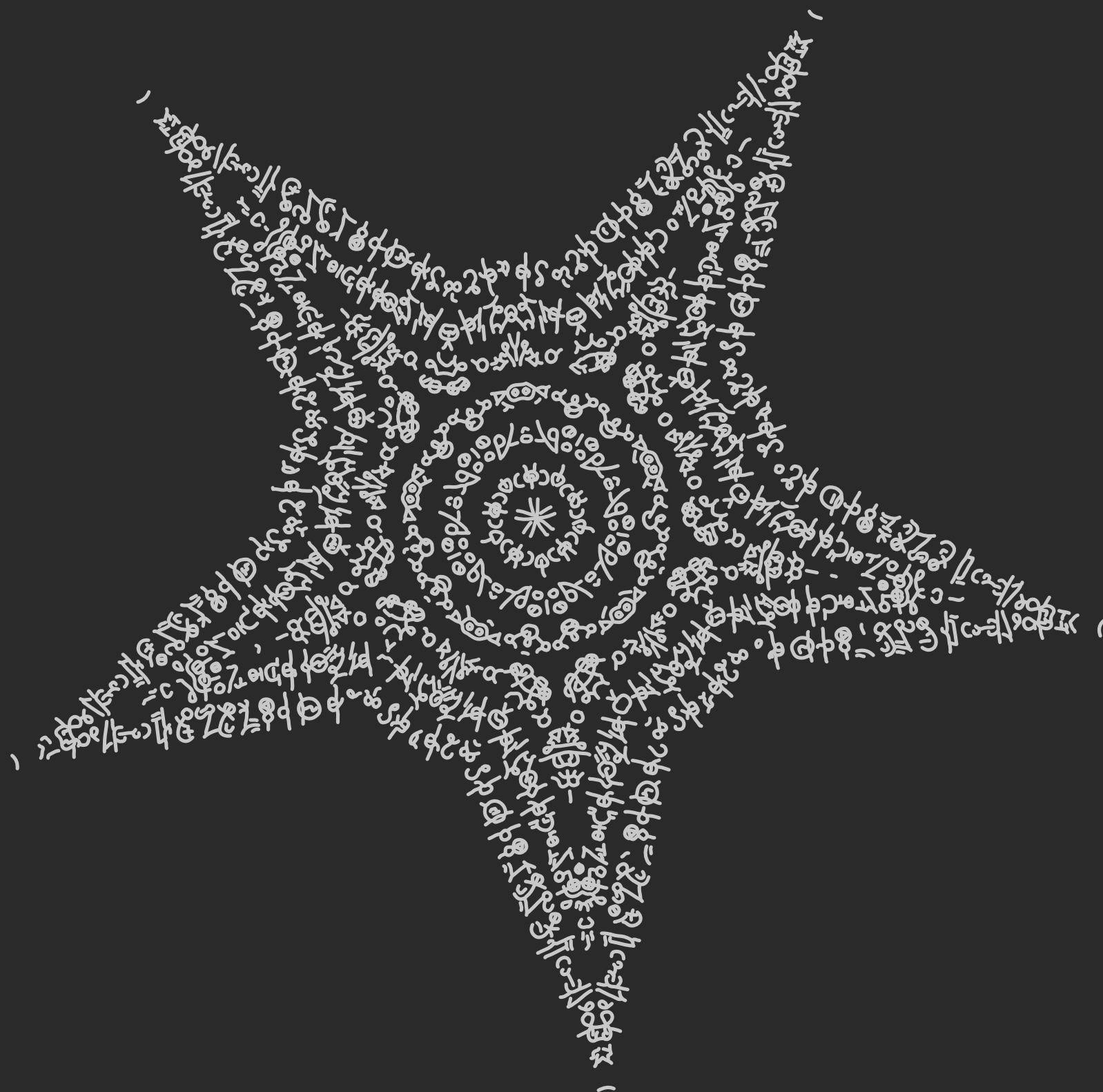
Research &  
Information

For the first time in  
Human History!

We have the  
technology.







Python!

# The Zen of Python

```
>>> import this
```

Beautiful is better  
than ugly.

Explicit is better  
than implicit.

Simple is better  
than complex.

Complex is better  
than complicated.



I am Afraid.



I am Terrified.

The image features a dark gray background filled with a dense, repeating pattern of interlocking cubes, creating a textured, three-dimensional effect. In the center of the image is a dark gray circle. Inside this circle, the word "Python" is written in a white, sans-serif font. The letter 'o' in "Python" is replaced by a small, solid yellow circle.

Python

# Python

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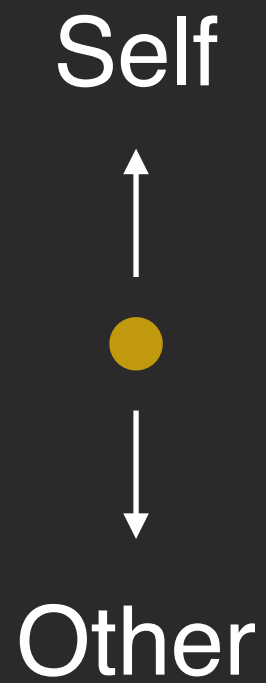
# Python

# Python 2

---

# Python 3

This boundary  
divides &  
separates.



# Python 2

---

# Python 3

Afraid of Python  
3?

You are not alone.



# Experiential Oddities

```
>>> b'hello'[0]  
104
```

```
>>> str(b'hi')  
"b'hi'"
```

```
>>> bytes(8)  
b'\x00\x00\x00\x00\x00\x00\x00\x00'
```

Unicode, Codecs, & Friends.

The Standard Library is broken.

Why?

There are **no** users.

"Of course there are users!  
Everyone's trying Python 3...  
except me!"

Let's look at the data.



DATA



# The Cheeseshop (PyPi)

- The canonically accepted source of all Python package downloads and installation.
- The perfect way to measure language runtime usage distribution.
- Sample range: 2014-01-02—2014-01-15.

Python 2	81,501,026
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Python 3	3,736,82
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2014-01-02 — 2014-01-15.



# The Great Separation

Core



Python

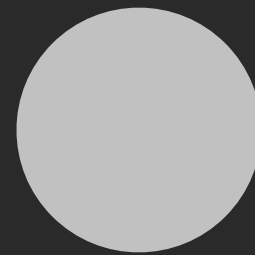
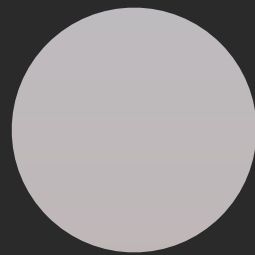
# The Current Duality

- Library maintainers have to double their efforts to support both Python 2 & Python 3.
- Core Maintainers will continue working in a vacuum, furthering separateness & division.
- New users will keep coming to Python 3 & Python 2 will slowly attrit into nothing.

You **are** the problem.

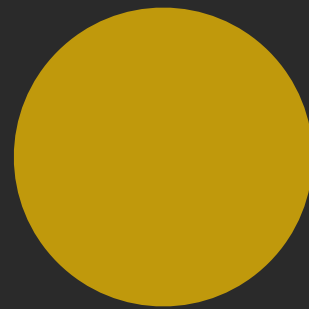
You **are** the solution.

# The Two Become One





# The Two Become One



Look within yourself — before  
the Python we **know & love** is  
only a memory.

Stop waiting for the right blog  
post or conference talk to  
influence your opinion.

Have a direct experience.

Share it with us.

Look within.

