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PYTHON SUCKS

# ABOUT ME

- ▶ DevOps engineer at Clevyr
- ▶ Python Enthusiast
- ▶ <https://mcswain.dev/>
- ▶ You're going to hate me.

### PIP

- ▶ Non-deterministic
- ▶ Tracking changes. Venv then freeze? Manual editing?  
Pipenv?
- ▶ Why do we need pipenv? Python should just work! NPM does.....
- ▶ Package names don't have to match? See pillow...
- ▶ Descriptions. BeautifulSoup? What's that supposed to do?

### PYTHON 2.7

- ▶ Why is this still a thing?
- ▶ It's still default in most OSs
- ▶ 2008?!?!
- ▶ Support extended five years

## FORMATTING STRINGS

- ▶ "Hello, %s!" % name
- ▶ "Hello, {}!".format(name)
- ▶ f"Hello, {name}!"
- ▶ 3 ways to format? Why?!

# IMPORTING

- ▶ Ever tried to local import in Python 2?
- ▶ Package names not matching pip name
- ▶ `__init__.py`

## NITPICKS

- ▶ Every class method needs self as the first argument? No implicit this? Or implicit self?
- ▶ x if cond else y vs cond ? x:y
- ▶ Pythonic? How full of ourselves are we?

### THE BIG ONE

- ▶ JavaScript is better!
- ▶ JavaScript is used more!
- ▶ JavaScript has many more packages!
- ▶ SWITCH TO JAVASCRIPT BEFORE PYTHON DIES!

PYTHON SUCKS IS  
SOMETHING  
IDIOTS SAY

## HOW IT'S ACTUALLY GOOD

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### PIP

- ▶ Pip just *works*. It follows the Unix philosophy: “Do one thing, and do it well”
- ▶ If you want extra features, use something to extend it. Pipenv is amazing.
- ▶ If you want to track every single change or track only top-level deps, you can choose. It’s team/individual based
- ▶ Package names not matching helps us reuse old code, Pillow helps fix compatibility with PIL
- ▶ If you need to find out what a package does, you should probably read more than the name

# PYTHON 2.7

- ▶ How **DARE** they maintain compatibility to help people forward port.
- ▶ Some OSs are starting to ship Python 3 by default, see Arch
- ▶ 12 years of support? That's unheard of
- ▶ We only have to deal with it for 9 more months

## FORMATTING STRINGS

- ▶ f Strings!
- ▶ They listen to the community
- ▶ Use whatever is more readable

# IMPORTING

- ▶ Python 3 fixed this
- ▶ Language specific

## HOW IT'S ACTUALLY GOOD

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### NITPICKS

- ▶ `self/this` and ternary is just an idiosyncrasy of the language itself. Like *any* language
- ▶ Pythonic is amazing! One good way to do things, readability across all code.

# JAVASCRIPT

- ▶ Stop comparing Python to JavaScript so generically. You wouldn't use JavaScript for machine learning. You wouldn't use Python for a React/Vue/Angular replacement.
- ▶ If we're looking at numbers, <https://www.similartech.com/compare/nodejs-vs-python> says Python has a larger market share than Javascript.
- ▶ <https://w3techs.com/technologies/comparison/pl-js,pl-python> says that Python has as higher market share as a backend too