

Christian Walther

Embedding MicroPython on Playdate

Next: Max Wittig

Embedding MicroPython on Playdate



Christian Walther • cwalther@gmx.ch • mstdn.social/@isziaui

The screenshot shows the GitHub interface for the `micropython / micropython` repository. The top navigation bar includes links for Code, Issues (1.3k), Pull requests (439), Discussions, Actions, Projects, Wiki, Security, and Insights. The left sidebar displays the file tree, with the `ports` directory expanded and the `embed` subdirectory selected. The main content area shows the `ports / embed` directory view, including a commit history table and the `README.md` file.

Commit History Table:

Name	Last commit message	Last commit date
..		
port	embed/port: Fix alloca include for Windows platforms.	3 months ago
README.md	embed: Add new "embed" port which builds a simpl...	2 years ago
embed.mk	all: Prune trailing whitespace.	last year

README.md Content:

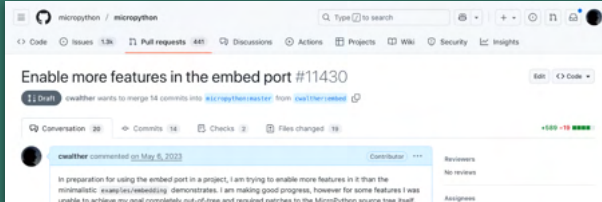
MicroPython embed port

This is a port of MicroPython that outputs a set of .c and .h files for embedding into a wider project. This port essentially targets the C language, instead of a particular hardware architecture or platform.

To use this port in a project there are three main steps:

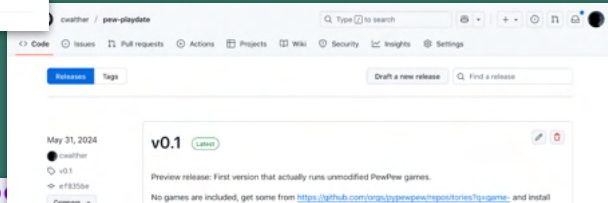
1. Provide configuration for the project via an `mpconfigport.h` file.
2. Build this embed port against that configuration, using the provided `embed.mk`. The output is a set of self-contained source files for building MicroPython. These files can be placed outside this repository.
3. Build the project. This requires compiling all .c files from the above step.

Christian Walther • cwalther@gmx.ch • mstdn.social/@isziaui



<https://github.com/micropython/micropython/pull/11430/>

<https://github.com/cwalther/pew-playdate/releases>



<https://devforum.play.date/t/17379>

Christian Walther • cwalther@gmx.ch • mstdn.social/@isziaui

Max Wittig

AI for developers by developers powered by Python

Next: Pavel Sulimov



AI for developers by developers powered by Python

Based on Open Source for all internal developers

from contact import * # noqa

Max Wittig based in Zürich, Switzerland



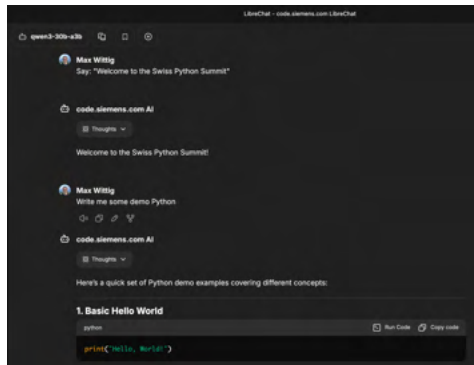
- Senior **DevOps Engineer** at Siemens
- Working in the Developer Enablement Team
- Operating and developing on-premise GitLab (code.siemens.com)
 - with 80_000 users, 300_000 projects globally
 - Lots of **Python tooling to manage Gitlab** (user lifecycle, statistics, internal accounting etc.)
- Internal APIs based on Django Restframework
- **python-gitlab maintainer**
- Python Enthusiast



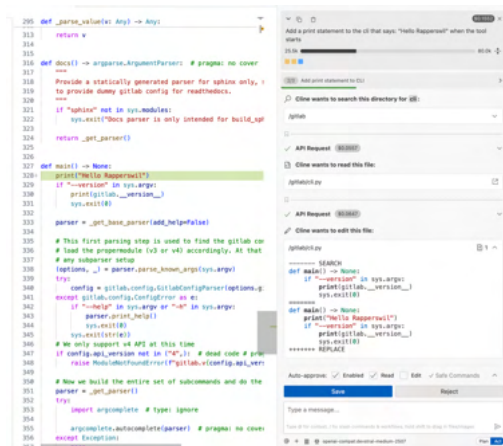
What can (Python) developers do with AI?

AI (LLM) uses cases for developers (1/2)

Chat mode (e.g. using LibreChat)



Agentic Mode using Cline inside VS Code



AI (LLM) uses cases for developers (2/2)

Code completions inside VS Code

```
172  
173 data = {"scope": scope, "search": search}  
174 path = f"/groups/{self.encoded_id}/search"  
175 |  
176 if kwargs.get("all", False):  
177     return self.manager.gitlab.http_list(path, query,
```

Embeddings, rerank etc using a REST API client

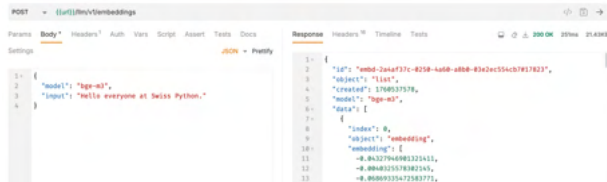
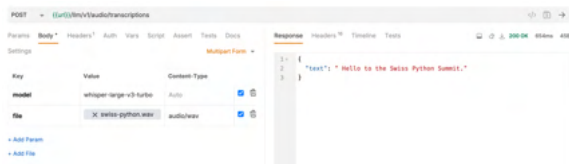


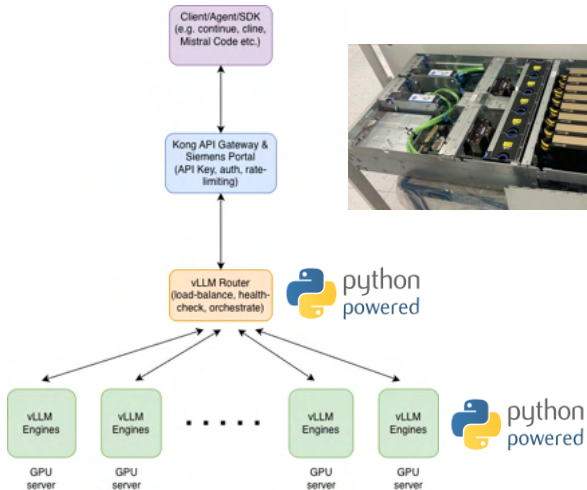
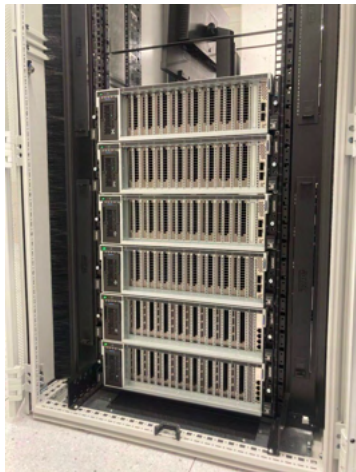
Image to text using Chatbox



Audio to text using a REST API client



How are we providing this?



What does Python have to do with this? - vLLM



<https://github.com/vllm-project/vllm>

- Written in **Python**
- Provides **OpenAI-compatible API server** that hosts the models for inference
- Continuous batching of incoming requests
- Supports GPUs from multiple manufacturers
- We're running different **Open Weight models** on our hardware e.g.:
 - [gpt-oss-120b](#)
 - [qwen3-30b-a3b-thinking-2507](#)
 - [qwen3-30b-a3b-instruct-2507](#)
 - [pixtral-12b-2409](#)
 - [whisper-large-v3-turbo](#)
- We made contributions to allow usage counting for internal usage stats

What does Python have to do with this? – vllm production-stack (vllm-router)

vLLM Production Stack

Powered by

LM Cache **Lab** + **vLLM**

<https://github.com/vllm-project/production-stack>

- Also written in **Python**
- HTTP based, stateless
- Shards requests across GPU nodes
- Performs load-balancing
- Multiple different routing algorithms
- We made **multiple contributions**. E.g.
 - Model alias support
 - Dynamic human readable config
 - Real backend health checks
 - Post Request background callbacks

Thank you for listening!

| Contact



Email (private): max.wittig.ch@gmail.com

Email (Siemens): max.wittig@siemens.com

GitHub: max-wittig

GitLab: max-wittig

LinkedIn: <https://www.linkedin.com/in/max-wittig>

Questions & answers



Links

Siemens Blog for details: <https://blog.siemens.com/2025/10/our-sovereign-ai-journey-building-a-self-contained-sustainable-and-cost-effective-llm-platform/>

LibreChat: <https://github.com/danny-avila/LibreChat>

vLLM: <https://github.com/vllm-project/vllm>

production-stack (vllm-router): <https://github.com/vllm-project/production-stack/>

ChatBox: <https://github.com/ChatBoxAI/ChatBox>

Cline: <https://cline.bot/>

Bruno: <https://github.com/usebruno/bruno/>

python-gitlab: <https://github.com/python-gitlab/python-gitlab>

Sources

Siemens Blog: <https://blog.siemens.com/2025/10/our-sovereign-ai-journey-building-a-self-contained-sustainable-and-cost-effective-llm-platform/>

vLLM logo: <https://docs.vllm.ai/en/latest/assets/logos/vllm-logo-text-dark.png>
production-stack logo: <https://docs.vllm.ai/projects/production-stack/en/latest/images/prodstack.png>

Python-powered logo: https://www.python.org/static/community_logos/python-powered-w.svg

Swiss Python summit logo: <https://www.python-summit.ch/logo.svg>

Pavel Sulimov

From Events to Actions: Real-time CRM with Python

Next: Annabelle Wiegart

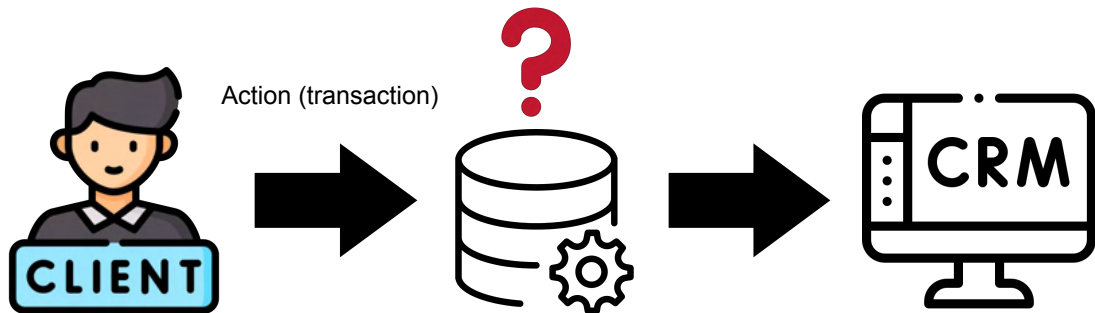


From Events to Actions: Real-time CRM with Python

16.10.2025

Pavel Sulimov, Sergey Eremeykin

Example from experience: Just Data. No Science



"Client/player act in seconds, but our campaigns take hours"

Why not to stream exactly in-memory?

```
# What happens when Spark restarts?
streaming_query = (spark
    .readStream("kafka")
    .groupBy("customer_id")
    .agg(sum("bet_amount").alias("total_bets"))
    .writeStream
    .outputMode("complete")
    .format("memory")# ← ONLY IN MEMORY.queryName("customer_metrics")
    .start())

# After restart: ALL DATA GONE! ✨
spark.sql("SELECT * FROM customer_metrics").show()
# Empty! No customer history, no metrics
```

Why not to stream exactly into target database?

```
# Writing directly to database
def process_event(event):
    cursor.execute("""
        UPDATE customer_metrics
        SET total_bets = total_bets + ?,
            last_activity = NOW()
        WHERE customer_id = ?
    """, (event.amount, event.customer_id))

# Issues:
# ✨ Expensive at scale if each event = 1 database write
# ✨ Cannot perform fast rule-based aggregations if batching
```

Events→Spark (?)→Delta Lake (?)→CRM Actions

```
# Real-time customer metrics with Delta Lake
customer_metrics = (spark
    .readStream
    .format("kafka")
    .option("subscribe", "customer_events")
    .load()
    .selectExpr("CAST(value AS STRING)")
    .select(
        get_json_object("value", "$.customer_id").alias("customer_id"),
        get_json_object("value", "$.event_type").alias("event_type"),
        get_json_object("value", "$.amount").cast("double").alias("amount"),
        get_json_object("value", "$.timestamp").cast("timestamp").alias("timestamp")
    )
    .withWatermark("timestamp", "5 minutes")
    .groupBy("customer_id", window("timestamp", "1 hour"))
    .agg(
        sum("amount").alias("hourly_bet_amount"),
        count("event_type").alias("event_count"),
        approx_count_distinct("session_id").alias("session_count")
    ))

# Write to Delta Lake with checkpointing(customer_metrics
    .writeStream
    .format("delta")
    .outputMode("update")
    .option("checkpointLocation", "/checkpoints/crm")
    .start("/data/customer_metrics"))
```

More about Data Lakes:

<https://docs.databricks.com/aws/en/delta/>

- extends Parquet data files with a file-based transaction log
- optimized for Apache Spark, allowing to easily use a single copy of data for both batch and streaming operations and providing incremental processing at scale

You can even maybe use it together with CountMinSketch from the first talk from today (but I didn't try):

<https://www.geeksforgeeks.org/dsa/count-min-sketch-in-python/>

Real-time customer metrics

customer_id	window	hourly_bet_amount	session_count	
cust_001	[14:00, 15:00]	1250.50	3	
cust_007	[14:30, 15:30]	2100.75	2	★ VIP!
cust_042	[14:00, 15:00]	480.25	1	

VIP ALERT: cust_007 just became VIP with \$2,100 in bets!
Send immediate bonus offer...



```
# The best next step
def get_started():
    return "pip install pyspark delta-spark"
```

sulimov@data-pulse.site
eremeykin@data-pulse.site

More stories with data and code are coming soon:



Annabelle Wiegart

Venturing into Djangonaut Space

Next: David Halter

VENTURING INTO DJANGONAUT SPACE



HOW CAN I START CONTRIBUTING TO OPEN SOURCE?



CONTRIBUTING TO DJANGO...

Contribution checklist

Use this checklist to review a pull request. If this contribution would not be **accepted** then, first ensure it has an accepted ticket before proceeding with the review.

If the pull request passes all the criteria below and is not your own, please set the "triage stage" on the corresponding track ticket to "Ready for checkin". If you're left with comments for improvements on the pull request, please tick the appropriate flag(s) on the Ticket based on the severity of your review. "Patch needs improvement", "Needs documentation" and/or "Needs tests". An issue and review permits, merges do final reviews of "Ready for checkin" tickets and will either commit the changes or bump it back to "Accepted". If further work needs to be done.

Django

Community -

- # contributing-getting-started
- # contributor-discussion
- # packages
- # appreciation
- # events
- # event-organization
- # career

- # contributing-getting-started
- # contributor-discussion
- # packages
- # appreciation
- # events
- # event-organization
- # career
- # we-are-hiring
- 📢 i-am-for **django**
- 📢 show-an

[View Tickets](#)
[Reports](#)
[Timeline](#)
[Wiki](#)
[Search](#)

[Worlds Triage](#)
[Worlds Patch](#)
[Worlds PM Review](#)
[Waiting On Author](#)
[Ready For Checkin](#)

Custom Query (55 matches)

[+ Filters](#)

Has patch ☒ yes ☐ no

Modified ☐ between

Aug 1, 2026

Patch needs improvement ☒ yes ☐ no

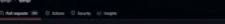
Status ☒ assigned ☐ closed ☐ new

Triage Stage ☐ is ☐ Accepted

Type ☐ is ☐

And field...

[+ Columns](#)



The screenshot shows the AWS IAM console. The 'Groups' tab is selected, and a list of groups is displayed. The group 'AmazonECS-TaskExecutionRole' is highlighted. The 'Permissions' tab is also visible, showing a list of permissions.

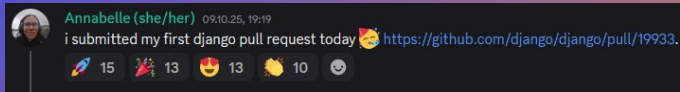


Writing some tests for your ticket

Writing some tests for your ticket

- In most cases, for a contribution to be accepted into Django it has to include tests. For bug fix contributions, this means writing a regression test to ensure that the bug is never reproduced into Django later on. A regression test should be written in such a way that it will fail under the bug circumstances and pass once the bug has been fixed. For contributions containing new features, you'll need to include tests which ensure that the new features are working correctly. They too should fail when the new feature is not present, and then pass once it has been added.

...WITH DJANGONAUT SPACE



- Diversity in action
- Communication spaces are welcoming and supportive
- Regular check-ins with mentors
- Every small win is celebrated

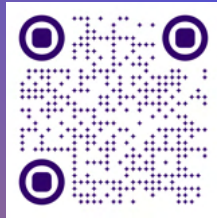
STRENGTHS OF DJANGONAUT SPACE

THANK YOU

Annabelle Wiegart



Check out Djangonaut Space



David Halter

The new Type Checkers

Next: Stefan Schindler

Jedi Autocompletion



The New Type Checkers

Replace Mypy and PyRight

- Ty by Astral
- PyreFly by Meta
- Zuban by Me

Ty

- Most hyped, because of uv
- Lacks fundamental typing features
- Lacks IDE tools: Completions, Goto, Renames, etc.



- Mostly complete
- Lacks recursive type aliases
- Supports IDE tools: Completions, Goto, Renames, etc.



- Cutest Logo
- Mostly feature complete
- Supports IDE tools: Completions, Goto, Renames, etc.

Python Typing Conformance Tests

- Ensures type checkers work the same
- Ty is not in there yet, because they would look really bad

Performance

- All three are really fast
- Ty is fastest currently (threading)
- Zuban uses 2x less memory/CPU
- Depending on Notebook Zuban might be the fastest

Conclusion

- Choose any of these, but wait with Ty for a year

Questions?

- zubanls.com
- info@zubanls.com
- Twitter/GitHub: [@ZubanLS](https://twitter.com/ZubanLS)

Stefan Schindler

Python like ease for numbers parsing

Next: Timon Erhart

parse_int


Numbers as easy as [...]

by Stefan Schindler schindler@estada.ch

Blog: Estada.ch

Hosted by Python Summit

Who am I?

- Stefan Schindler @dns2utf8
- Looking for a job or paid projects
- OSS maintainer of crates like threadpool, parse_int, sudo, and others
- Opinions are my own
- Organiser of Rust Zürisee  and RustFest 2024

Parsing hex numbers

```
decimal_value = int('0x1A', 16)  
print(hex(decimal_value))
```

What is the output?

1A or 1a or 0x1a or 0x1A

Parsing and printing but bigger

What if we make it more readable:

```
decimal_value = int('0x1A_00_00', 16)  
print(hex(decimal_value))
```

Does it still print **0x1a0000** or **0x1a0_000** or **0x1a_00_00**?

parse_int

- why?
- A simple interface at runtime (via PyO3)
- Use one input parsing function for all your number needs

Installation

https://crates.io/crates/parse_int

Install

Run the following Cargo command in your project directory:

```
cargo add parse_int
```

Or add the following line to your Cargo.toml:

```
parse_int = "0.9.0"
```

Example with and without turbo-fish

```
use std::error::Error;
// import the function for multiple uses
use parse_int::parse;

fn main() -> Result<(), Box<dyn Error>> {
    // Detect the type automatically
    let d = parse_int::parse("42")?;
    assert_eq!(42_usize, d);

    // you can use underscores for more readable inputs,
    // just like in rust

    assert_eq!(1_111_638_594,
        parse::<isize>("0x42_42__42_42")?);
}
```

Handling floats

```
let pi = parse_int::parse("3.141_592_653_589_793")
    .expect("floats have a different error type");
assert_eq!(std::f64::consts::PI, pi);

assert_eq!(12.34_f32, parse("1_2.3_4").expect("static"));
assert_eq!(12.34_f64, parse("1_2.3_4").expect("static"));
```

Hex numbers

```
assert_eq!(128, parse::<isize>("0x80"?));
```

And negative hex

```
assert_eq!(-128, parse::<isize>("-0x80"?));
```

Integrate it with clap

lets introduce a subtile bug

```
use clap::Parser;

#[derive(Parser, Debug)]
#[command(name = "parse-int-with-clap", version, author)]
struct Args {
    /// left hand of addition
    #[arg(short = 'a', value_parser = parse_hex_u8)]
    a: u8,
    /// right hand of addition
    #[arg(short = 'b', value_parser = parse_hex_16)]
    b: i16,
}
```

Hand written parser

```
fn parse_hex_u8(s: &str) -> Result<u8, String> {
    let s = s.trim_start_matches("0x");
    u8::from_str_radix(s, 16).map_err(|e| e.to_string())
}

fn parse_hex_16(s: &str) -> Result<i16, String> {
    let s = s.trim_start_matches("0x");
    i16::from_str_radix(s, 16).map_err(|e| e.to_string())
}

fn main() {
    let args = Args::parse();    println!("{:?}", args);
    let Args { a, b } = args;

    println!("{}", a + b);
    println!("0x{:X} + 0x{:X} = 0x{:X}", a, b, a as i16 + b);
}
```


What actually happens

- Input a decimal like `10`
- It be translated to `0x10`
 - as if the user had specified `0xA`.

Fix it with parse_int

```
#[derive(Parser, Debug)]
#[command(name = "parse-int-with-clap", version, author)]
struct Args {
    /// left hand of addition
    #[arg(short='a', value_parser = parse_int::parse::<u8>)]
    a: u8,
    /// right hand of addition
    #[arg(short='b', value_parser = parse_int::parse::<i16>)]
    b: i16,
}
```

Parsing ranges

- experimental API
- Hidden behind a feature flag

a new Range type

```
pub enum Range<T: Num> {  
    /// start..  
    RangeExclusive { start: T, end: T, },  
    /// start..  
    RangeInclusive { start: T, end: T, },  
  
    RangeFrom { start: T },  
    RangeTo { end: T },  
  
    RangeFull,  
}
```

Full range

```
assert_eq!(Ok(RangeFull.into()), parse_range::<u8>(".."));

/// not the same type
assert_eq!(Ok(RangeFull.into()), parse_range::<i8>(".."));
```

Range from

```
let f32_r = parse_range::<f32>("-42.23..").expect("weird float error type");

assert_eq!(None, f32_r.as_full_range());
assert_eq!(None, f32_r.as_range_exclusive());
assert_eq!(None, f32_r.as_range_inclusive());
assert_eq!(None, f32_r.as_range_to());

assert_eq!(Some((-42.23..).into()), f32_r.as_range_from());
```

Formatting Decimal & Hex

```
assert_eq!("42_000", format_pretty_dec(42_000));
```

```
assert_eq!("-42_000", format_pretty_dec(-42_000));
```

```
assert_eq!("0xff_ff", format_pretty_hex(0xff_FF));
```

```
assert_eq!("0x4_20_00", format_pretty_hex(0x42_000));
```

```
assert_eq!("-0x42", format_pretty_hex(-0x42_i8));
```

```
assert_eq!("-0x42", format_pretty_hex(-0x42_i16));
```

Formatting floats

```
assert_eq!("42_230_123", format_pretty_dec(42_230_123));  
assert_eq!("42.0", format_pretty_dec(42.0_f32));
```

parse_int

Numbers as easy as an Eclair

by Stefan Schindler schindler@estada.ch

Blog: Estada.ch

Hosted by Python Summit

Timon Erhart

uv – An extremely fast Python package and project manager

Next: Florian Bruhin



uv

An extremely fast Python
package and project
manager

Timon Erhart
OST / IFS

What is it?

Highlights

- 🚀 A single tool to replace `pip`, `pip-tools`, `pipx`, `poetry`, `pyenv`, `twine`, `virtualenv`, and more.
- ⚡ 10-100x faster than `pip`.
- 📁 Provides comprehensive project management, with a universal lockfile.
- ✨ Runs scripts, with support for inline dependency metadata.
- 🐍 Installs and manages Python versions.
- 🛠️ Runs and installs tools published as Python packages.
- 🔗 Includes a pip-compatible interface for a performance boost with a familiar CLI.
- 📦 Supports Cargo-style workspaces for scalable projects.
- 💾 Disk-space efficient, with a global cache for dependency deduplication.
- 📦 Installable without Rust or Python via `curl` or `pip`.
- 🖥️ Supports macOS, Linux, and Windows.

Why do I need it? - Case 1: Package manager

Projects with a requirements.txt

- Drop-in replacement for pip
 - ...but faster!
 - ...but more!
- Can do everything pip does
 - ...but faster!
 - ...but more!
- Risk free
 - Try it out in an already existing project
 - Just write uv in front the pip command

```
[uv] pip install black
```

```
[uv] pip freeze
```

```
# but more! (pip doesn't)
```

```
uv pip tree [--depth 1]
```

```
uv pip sync requirements.txt
```

```
uv venv --python 3.11
```

```
# (Btw, did you know?)
```

```
python -m venv --system-site-packages .venv
```

Why do I need it? - Case 2: Project Manager

Projects with a pyproject.toml

- Replacement for Poetry
 - Similar interface
 - Way faster
 - Less errors (in my experience)
- Interlude: Why using pyproject.toml?
 - Clean dependency management
 - Version pinning (lock file)
 - Build backends and package distribution
 - Dev-tool settings, scripts etc...

More info: realpython.com/python-pyproject-toml

```
uv init hello-world
uv add black
uv run main.py
uv sync
uv publish
```

```
pyproject.toml
[project]
name = "hello-world"
version = "1.0.0"
dependencies = ["black>=25.1.0"]

[project.optional-dependencies]
+dev = ["black>=24.1.0", "isort>=5.13.0"]

[tool.black]
line-length = 88

[build-system]
requires = ["setuptools"]
```

Why do I need it? - Other cases ..

- Replace pipx / run tools
- Create project structures
- Handle virtual environments and install python version
- Execute standalone scripts

```
uv tool install black  
uvx black / uv tool run black
```

```
uv init --app helloworld
```

```
uv venv --python 3.11  
uv python list
```

```
uv add --script hello.py 'requests'  
uv run hello.py
```

Read more: docs.astral.sh/uv/getting-started/features/

Is it stable?

- Pretty new
 - First release beginning of 2024
 - Very fast release cycle (almost every week)
- But
 - Fast growing community
 - Already 52k stars (Poetry has 33k)
 - From the creators of Ruff (Astral)
 - Ruff is a faster replacement for flake8 and black
 - Already used by (known) open source project
 - Good documentation
- IMHO: It will stay

Tags	
0.7.1	6 hours ago 90f46f8 zip tar.gz Notes Downloads
0.7.0	18 hours ago 62bca8c zip tar.gz Notes Downloads
0.6.17	5 days ago 8414e9f zip tar.gz Notes Downloads
0.6.16	last week d8ad9d3 zip tar.gz Notes Downloads
0.6.15	last week e2f480a zip tar.gz Notes Downloads

Florian Bruhin

`fstri.ng` & `pyte.st`

fstring.help & pyte.st

Or: How I bought yet another (and yet another!) domain

Florian Bruhin



Swiss Python Summit 2025

October 16th

PyFormat

Using `%` and `.format()` for great good!

Contribute on GitHub

Python has had awesome string formatters for many years but the documentation on them is far too theoretic and technical. With this site we try to show you the most common use-cases covered by the old and new style string formatting API with practical examples.

All examples on this page work out of the box with Python 2.7, 3.2, 3.3, 3.4, and 3.5 without requiring any additional libraries.

Further details about these two formatting methods can be found in the official Python documentation:

- [old style](#)
- [new style](#)

If you want to contribute more examples, feel free to create a pull-request on [Github](#)!

Basic formatting

Simple positional formatting is probably the most common use-case. Use it if the order of your arguments is not likely to change and you only have very few elements you want to concatenate.

Since the elements are not represented by something as descriptive as a name this simple style should only be used to format a relatively small number of elements.

Old

```
'%s %s' % ('one', 'two')
```

New

```
'{} {}'.format('one', 'two')
```

Output

```
o n e   t w o
```

PEP 0498: f-Strings #24



Open

hut8 opened this issue on Oct 4, 2015 · 11 comments

PEP 498 -- Literal String Interpolation #50



Open

danielniccoli opened this issue on Dec 13, 2017 · 7 comments

Incorporating f-Strings (PEP 498) #56



Open

udincer opened this issue on Apr 25, 2019 · 1 comment

Contributions to master, excluding merge commits and bot accounts







master ▾



Commits on Feb 4, 2017

Mention v2 in README




ulope committed on Feb 4, 2017 ✖



Commits on Dec 27, 2016

Slightly reword uneven center align padding note

 v2 ▾

 Commits on Jan 16, 2018

Remove Python 3.3 from testing



ulope committed on Jan 16, 2018 

Fix circleci config



ulope committed on Jan 16, 2018 

\approx 2019: fstring.dev?

At PyConDE 2022:
OMG let's do it!
Lightning talks!!!1!

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fstring.help

HELP


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Python f-strings

All currently supported Python versions (3.6+) support string-formatting via f-strings. While [PEP 498](#) ([Literal String Interpolation](#)) as well as the Python documentation ([tutorial](#), [syntax reference](#)) have some information on their usage, I was missing a reference which is terse, but still verbose enough to explain the syntax.


Thus, fstring.help was born, made with ❤️ and  Jupyter (for now, as a quick hack at PyConDE 2022).

Created by  **BRUHIN**
SOFTWARE

[Consulting, coaching and development for pytest, Qt and Python.](#)

Some content is copied verbatim from [pyformat.info](#) (Copyright 2015 Ulrich Petri, Horst Gutmann).
Thanks!

[Repository](#) on  Github, contributions welcome! If you prefer an interactive version,

 [launch](#) [binder](#)

Basic formatting

f-strings are strings with an `f` in front of them: `f"..."`. Inside the f-string, curly braces can be used to format values into it:

```
In [1]: one = 1  
        two = 2
```

```
In [2]: f"{one} {two}"
```

```
Out[2]: '1 2'
```

Arbitrary code

You can put any Python code into f-strings:

Python f-string cheat sheets

See [fstring.help](#) for more examples and for a more detailed discussion of this syntax see [this string formatting article](#).

All numbers

The below examples assume the following variables:

```
>>> number = 4125.6
>>> percent = 0.3738
```

Example Output	Replacement Field	Fill	Width	Grouping	Precision	Type
'4125.60'	{number:.2f}				.2	f
'4,125.60'	{number:,.2f}			,	.2	f
'04125.60'	{number:08.2f}	0	8		.2	f
' 4125.60'	{number: 8.2f}		8		.2	f
'37%'	{percent:.0%}				.0	%

These format specifications only work on all numbers (both `int` and `float`).

Short links for pytest docs: [https://**pyte.st**](https://pyte.st)



- pyte.st/fixtures
- pyte.st/raises
- pyte.st/parametrize
- ...and lots more!



<https://fstring.help>

[https://github.com/
The-Compiler/fstring.help](https://github.com/The-Compiler/fstring.help)

<https://bruhin.software>
florian@bruhin.software