

My story with Python and Open Source

Nicola Iarocci / [@nicolaiarocci](#)

Who I am

a weirdo

Python by Night

I am the author and maintainer of a few Python open source projects: python-eve.org, python-cerberus.org, and more.

C# by Day

I am the author of Software Gestionali Amica, a line of accounting and invoicing applications for Italian small businesses. Check it out at <http://gestionaleamica.com>

Speaker

At local and international conferences

Microsoft MVP MongoDB Master



I also happen to be a Microsoft MVP for Visual Studio and Development Technologies and a MongoDB Master.

Communities



I run DevRomagna, a developers community, and CoderDojo Ravenna, a coding club for kids. <http://devromagna.org>

Teacher and Consultant



Languages, methodologies, best practices, etc.



How I got into Python and Open Source

REST API framework designed for human beings <http://python-eve.org>

Edit

pythonrestflaskmongodbManage topics

📶 2,869 commits

🔗 27 branches

🏷 32 releases

👤 136 contributors

Branch: master ▾

New pull request

Create new file

Upload files

Find file

Clone or download ▾





nicolaiaarocci Bump version to 0.7.10

Latest commit 11f7c08 10 days ago

Eve

RESTful API for human beings

 Search or jump to... / Pull requests Issues Marketplace Explore

 pyeve / cerberus

Unwatch 48

Star 1,306

Fork 143

<> Code

Issues 18

Pull requests 0

Insights

Settings

Lightweight, extensible data validation library for Python <http://python-cerberus.org> Edit

python

data-validation

Manage topics

968 commits

1 branch

11 releases

46 contributors

ISC

Branch: master

New pull request

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Cerberus

Lightweight extensible **data validation** for Python




eve


REST API framework designed for human beings

<http://python-eve.org>

 **Repositories** 12

 **People** 7

 **Teams** 0

 **Projects** 0

 **Settings**

Pinned repositories

[Customize pinned repositories](#)

≡ **eve**

REST API framework designed for human beings

 Python  5.1k  627

≡ **cerberus**

Lightweight, extensible data validation library for Python

 Python  1.3k  143

≡ **eve-demo**

A fully functional REST Web API. Powered by Eve.

 Python  213  72

≡ **eve-swagger**

Swagger extension for Eve-powered RESTful APIs

 Python  99  28

≡ **eve-sqlalchemy**

SQLAlchemy data layer for Eve-powered RESTful APIs

 Python  174  55

≡ **flask-sentinel**

OAuth2 Server bundled as a Flask extension

 Python  130  31

<> Code

! Issues 3

🔗 Pull requests 2

📁 Projects 0

📖 Wiki

📊 Insights

⚙️ Settings

Fattura Elettronica per le aziende e la Pubblica Amministrazione Italiana <http://fatturaelettronicaopensource.org>

Edit

fattura-elettronica

c-sharp

xamarin

dotnet

opensource

Manage topics

📦 286 commits

🌿 3 branches

🏷️ 21 releases

👤 3 contributors

Branch: master ▾

New pull request

Create new file

Upload files

Find file

Clone or download ▾



nicolaiairocchi Merge branch 'prepare_for_v0.8.1_release'

Latest commit 5d94e29 21 days ago

FatturaElettronica C#

Per le aziende e la Pubblica Amministrazione

pros and cons

[Code](#)[Issues](#) 116[Pull requests](#) 3[Projects](#) 0[Insights](#)[Settings](#)

Document Versioning #291

[Edit](#)

Merged nicolaiaarocci merged 33 commits into `pyeve:develop` from `joshvillbrandt:versioning` on Mar 17, 2014

[Conversation](#) 2[Commits](#) 33[Files changed](#) 21+1,747 -142

joshvillbrandt commented on Mar 16, 2014

[Member](#)

Okie dokie - one giant pull request for [#224!!](#) All facets of 'document versioning' have been implemented. I'm sure I'll find some ways to clean this up over the next couple of weeks, but at the moment everything is in a pretty good state.

[Reviewers](#)

No reviews—request one

[Assignees](#)

New Features

for free

Fix sanitization of nested queries. #1091

[Edit](#)**Closed**Moschn wants to merge 1 commit into `pyeve:master` from `unknown repository`[Conversation](#) 2[Commits](#) 1[Files changed](#) 3

+18 -4



Moschn commented on Dec 3, 2017

Contributor



A query was not fully traversed in the sanitization. Therefore the blacklist for mongo wueries could be bypassed, allowing for dangerous "\$where" queries.

[Fix sanitization of nested queries.](#) ...

✓ da34a49



nicolaiarocci approved these changes on Dec 4, 2017

[View changes](#)

Excellent.

Reviewers



nicolaiarocci



Assignees



No one—assign yourself

Labels



bug

Projects




Bug Fixes

before you find out about them

Fix typos in comments #996

[Edit](#)

 Closed

Martin456 wants to merge 3 commits into `pyeve:master` from `Martin456:master`

 Conversation 2

 Commits 3

 Files changed 21

+65 -65 



Martin456 commented on Mar 7, 2017

Contributor



Hello Nicola,
I'd like to contribute to Eve project, so I started with walkthrough of the code and fixed a few typos in comments.
Regards
Martin



2

Reviewers



nicolaiarocci



Assignees



No one—assign yourself

Labels



None yet

Quality & Longevity

more eyes see more

Open

nicolaiairocchi opened this issue on Mar 16 · 8 comments



nicolaiairocchi commented on Mar 16

Owner + 😊 ✎

Would be nice to have a fluent API, whereas now we are just passing arguments to the GET method. I guess what I have in mind is something like `client.Get(url).Where(customer => customer.Name=='John').Sort(...)`.

That's going to be quite a lot of work, and I am not sure it is really worth it. Also, I don't have the time to work on this right now. Up for grabs!



pedro2555 commented on Mar 16 • edited ▾

Contributor + 😊 ⋮

Mongo driver for .NET implements such a thing, by the name of `Builders` or `DefinitionBuilder` (depending where you're reading).

Specifically the `FilterDefinitionBuilder` seems to to do exactly as you suggest. Not really sure how one could leverage that for this project, but figured it might be helpful when someone does it.

Assignees

⚙️

No one—assign yourself

Labels

⚙️

None yet

Projects

⚙️

None yet

Milestone

⚙️

No milestone

Notifications

🔊 Unsubscribe



sergekir commented on Sep 4, 2017

Contributor

+ 13
😊 ...

English is not my first language but I can try :)

So, there is a part called `MongoDB Aggregation Framework` but there is nothing about templates are only for `dicts` . Or should I provide an example for `list` with parameters?



Amedeo91 commented on Sep 4, 2017

+😊 ...

Well, maybe just add a note where you underline that the api consumer can specify parameter either

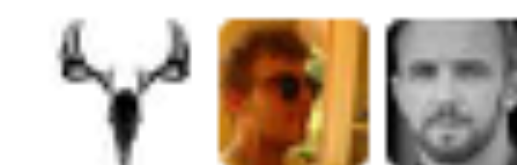
0.8

Notifications

🔊 Un

You're receiving
because you m
open/close stat

3 participants



Language & Cultural Barriers

in an international community communication can be a challenge, also a chance to learn

<> Code

! Issues 116

🔗 Pull requests 3

📊 Projects 0

📈 Insights

⚙️ Settings

14

Filters ▾

🔍 is:issue is:open

Labels

Milestones

New issue

☐ ! 116 Open ✓ 568 Closed

Author ▾

Labels ▾

Projects ▾

Milestones ▾

Assignee ▾

Sort ▾

☐ ! No _meta on aggregate

#1089 opened a day ago by dethstar

☐ ! Procedure and actual use of project

#1088 opened a day ago by sundeeep95

☐ ! Registering signals with Eve doesn't work

#1087 opened 3 days ago by fernandocamargoti

💬 2

Maintenance

after the initial excitement maintenance can (and will) become a **burden**



Nicola Iarocci is creating Eve and Cerberus

15

Overview

Posts

Community

BECOME A PATRON

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\$3
per month

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Eve is an open source Python REST API framework designed for human beings. **Cerberus** is a lightweight data validation library for Python. Eve makes building and deploying RESTful services super-simple and yet, it provides a huge set of powerful features out of the box such as:

- Full range of CRUD operations, bulk insertions included
- Filtering, Sorting, Pagination, HATEOAS
- JSON and XML Rendering
- Conditional Requests

SHARE

TWEET

REWARDS

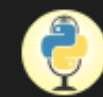
Backer

\$10 or more per month · 0 patrons

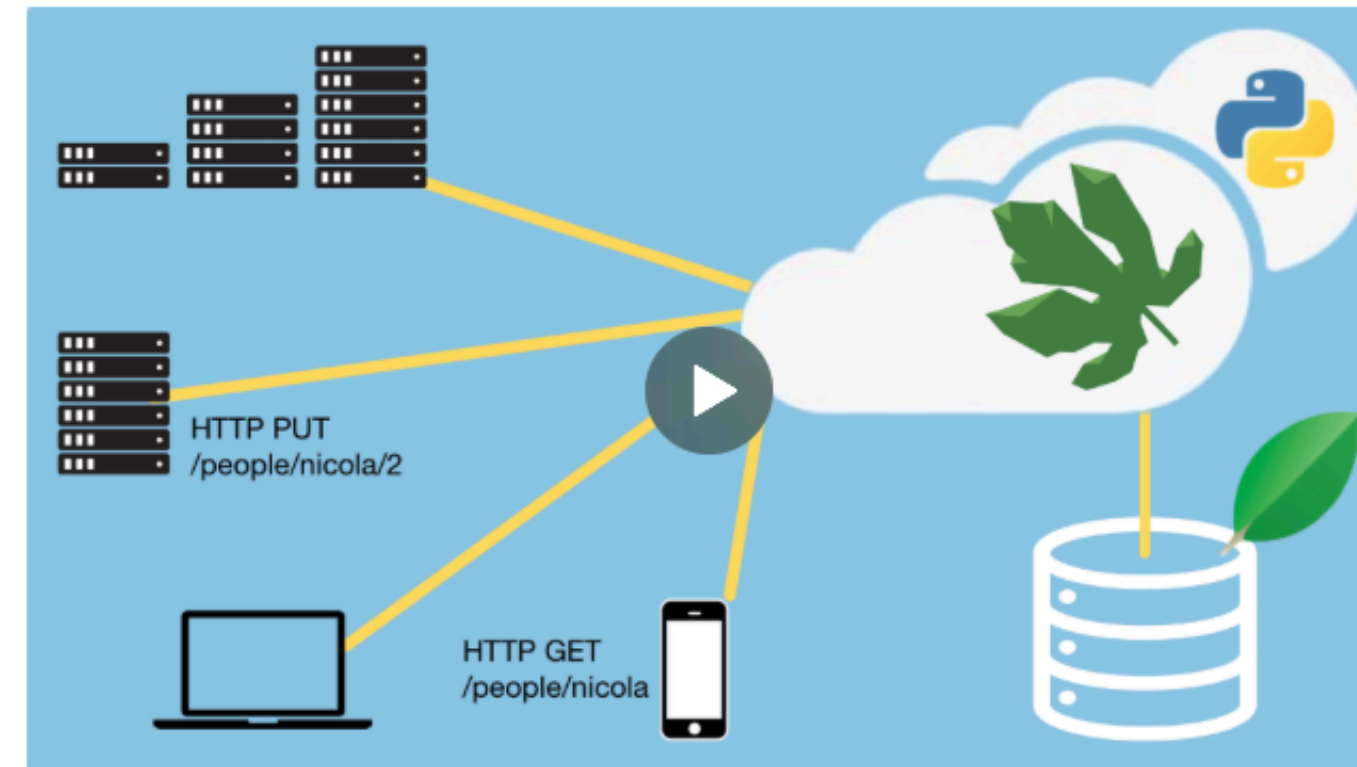
Your name will be put in the funding page on python-eve.org.

Sustainability

can be a little (!) hard



Eve: Building RESTful APIs with MongoDB and Flask



5.1 hours, \$49 USD ([own it forever](#))

Buy now, get lifetime access \$49

Buy the bundle, save 60%

For your team

Give as a gift

Course Summary

Eve is an open source Python REST API framework designed for human beings. It allows you to effortlessly build and deploy highly customizable, fully featured RESTful web services.

You need to get creative

TalkPython offers a **course** I recorded for them
(money!)

Consequences

Who I used to be

introvert **code monkey**, 1991-2012



C# by Day

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a line of accounting and invoicing
applications for Italian small businesses.
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▲ Eve: A Python REST API Framework (python-eve.org)

102 points by m0th87 1527 days ago | hide | past | web | 33 comments | favorite | add to buffer

▲ jdp 1527 days ago [-]

Leaving PUT out might be a mistake. The rationale from the slide deck is sound but the framework neglects the case in which you are creating a resource with a known identifier. The good for when you don't know the identifier, and want to leave it up to the handler to generate one for you. You could just define the same semantics for POST as for PUT, but that b that a resource created by POST should be subordinate to the requested resource.

▲ gruntmaster9000 1527 days ago [-]

They give a good rationale for supporting PATCH, but not for omitting PUT. Not supporting PUT is absolutely a mistake, especially with a schema-less backend. Being unable to to set a property as undefined (by PUTting a complete version of the resource without that property). The usual approach with PATCH is to set it to None/null, but then the pro None instead of removed. (Or, some APIs will remove a property with a None value, but then it is undefined instead of being set to None.) A small but potentially important se

▲ jessaustin 1527 days ago [-]

Does this corner case really justify dealing with another entire verb? Even if we stipulate that *null* has a specific meaning for our application that we don't want to screw array, or string? (`{}`, `[]`, or `""`) Do *all* of those mean something for, e.g., the "lastname" field?

▲ gruntmaster9000 1527 days ago [-]

PUT is almost functionally identical to a PATCH, so it's not exactly an entire other verb. It's also a very standard verb. Using the example from a null request on F

One Day
someone posted about Eve on [Hacker News](#)




Speaking

started with presenting my **open source projects** at local
and international conferences



Consulting & Teaching
was another **direct consequence** of my open source activity

 Cambia foto



DevRomagna

Ravenna, Italia · 424 membri · Gruppo pubblico ?

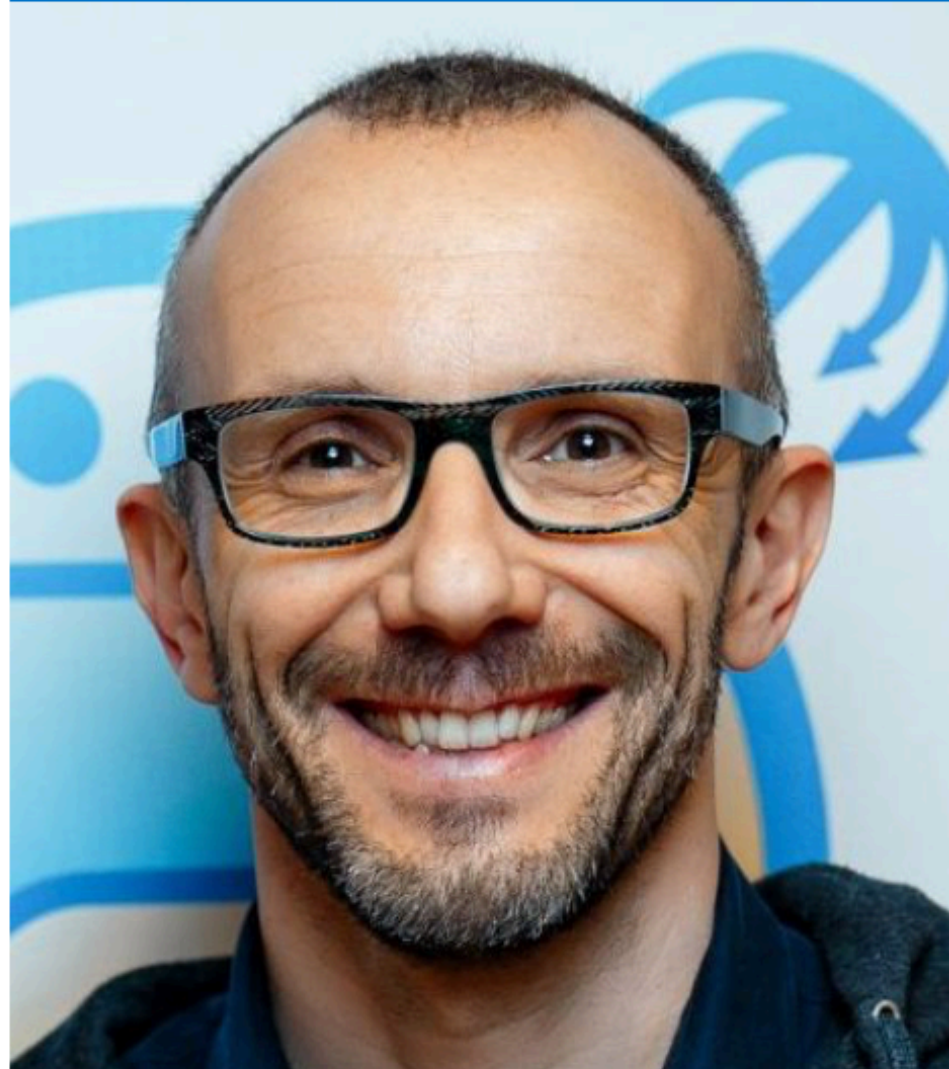


Organizzato da
Nicola Iarocci

Condividi:    

Communities

DevRomagna and CoderDojo Ravenna



Award Categories
Developer Technologies

Nicola Iarocci

Italy
Ravenna, RA

Software Craftsman

Biography

Nicola is the founder of CIR2000 where he leads the Amica project, an accounting and invoicing application for the Italian small businesses. He has 25 years of professional experience in the software engineering field. He is a coder at heart, author of some well known open source projects on both .NET and Python platforms. He is a MongoDB Master, a Microsoft MVP, a speaker at local and international conferences, and trainer. Nicola lives in Ravenna, Italy, where he runs the local CoderDojo, a coding club for kids, and DevRomagna, a developers users group.

Awards

speaking and **open source** then got me some nice rewards

MongoDB Masters

MongoDB Masters is an annual program run by MongoDB to recognize and empower leaders in the MongoDB community. Masters serve as ambassadors, leaders, educators, and experts, sharing their first-hand knowledge and experience. Masters complete MongoDB professional certification to demonstrate their expertise.

Awards

speaking and **open source** then got me some nice rewards

```
$ git diffc
diff -git a/README.md b/README.md
index 2fd9bc4..889c3dc 100644
--- a/README.md
+++ b/README.md
@@ -1,2 @@
  TITLE
+test
```

```
$ git config --global alias.difffc 'diff --cached'
```

Learn

new things every single day, and then [share](#) them



Networking

last but not least

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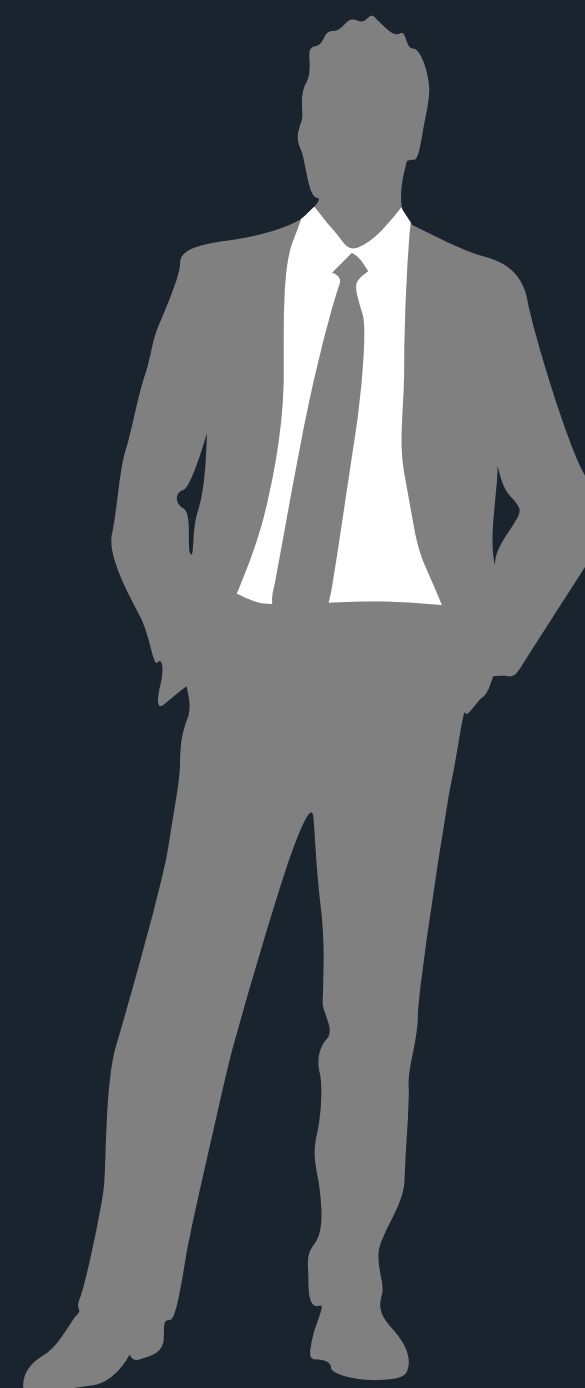


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Trainer



Languages, methodologies, best practices, etc.



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28

[Overview](#)[Repositories](#) 45

Stars 109

Followers 500

Following 0

Pinned repositories

[pyeve/eve](#)

REST API framework designed for human beings

● Python ★ 4.5k 🍴 573

[pyeve/cerberus](#)

Lightweight, extensible data validation library for Python

● Python ★ 1.1k 🍴 119

Open Source

rocked **my world**

What was the first pull request you sent on GitHub?

29

nicolaiarocci

Minor fixes at the design documentation #71
to `schematics/schematics`



nicolaiarocci sent this pull request 6 years ago

Merged

Take it Easy

begin by contributing with a single, simple pull request



nicolaiarocci commented 9 days ago

Own

This is still waiting on proper test coverage. Are you still planning to add it?



nicolaiarocci added this to the **0.8** milestone 9 days ago

Do Your Homework

most projects won't accept code that is not covered by tests and documentation updates



nicolaiaarocci commented on Jan 18



This is a rather big change.

- Net Standard 2.0
- Update test project to new API version of xBehave (and update all dependencies to latest releases)
- Drop the strong naming

Moving to Net Standard 2.0 implies dropping support for older .NET versions, such as 4.0, 4.5.x, and 4.6.0 (will do fine with 4.6.1+).



Reviewers

No reviews

Assignees

No one assigned

Labels

None yet

Projects


None yet

Sometimes things don't go as planned

this pull request has been ignored for six months (and counting). It's ok.

Fix typos in comments #996

Edit

 **Closed** Martin456 wants to merge 3 commits into `pyeve:master` from `Martin456:master`

Conversation 2



Commits 3

Files changed 21

+65 -65 



Martin456 commented on Mar 7


Contributor +  



Hello Nicola,


I'd like to contribute to Eve project, so I started with walkthrough of the code and fixed a few typos in comments.

Regards


Martin

Reviewers 

 nicola iarocci 

Assignees 

No one—assign yourself

Labels 

Cognitive Bias

contributor wanna-be is intimidated, yet there are a ton of projects out there

all striving for contributors

The truth is that there is absolutely no luck in becoming an OSS developer

**You need dedication, will and grit.
Along with a strong desire to learn new things.**

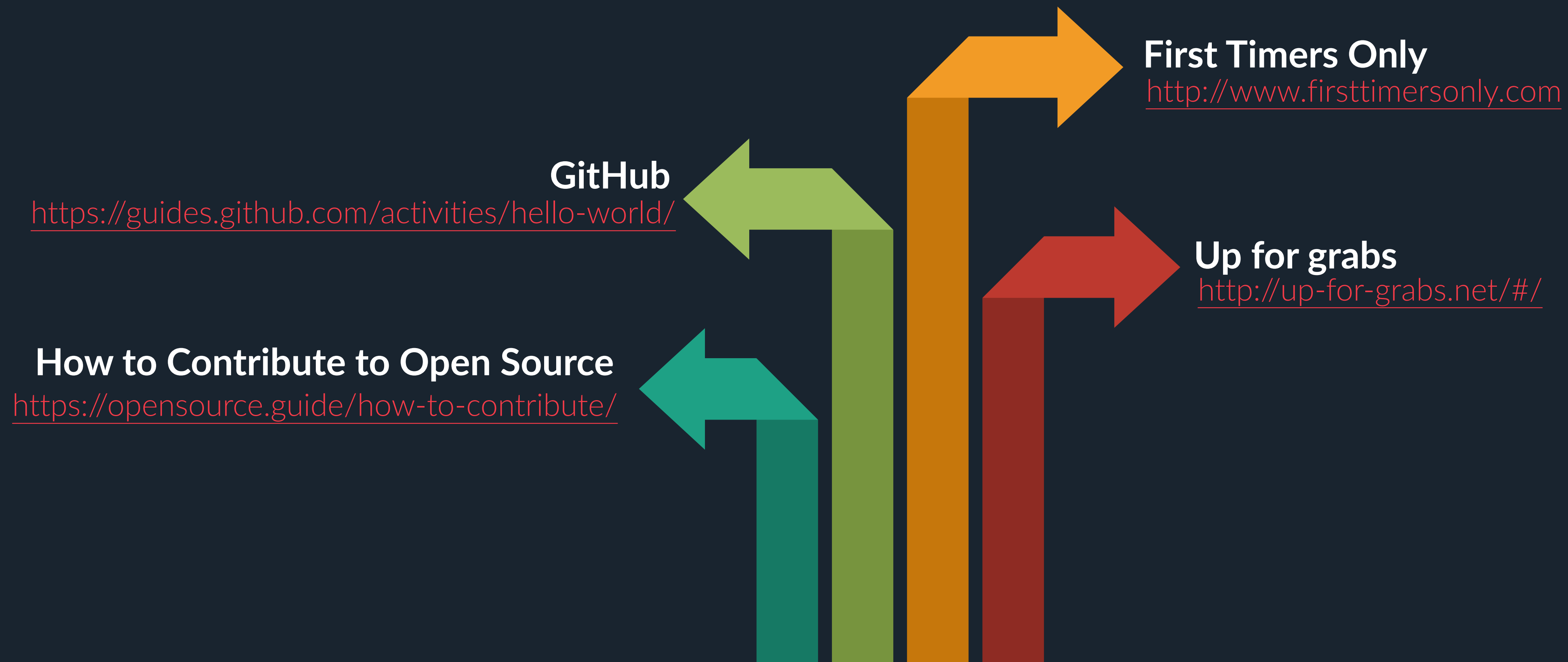
The good news is that
you can become an OSS developer too

Matteo Collina

NodeJS Technical Steering Committee

Get Started!

Check out these great **resources**



Docs / Visual Studio / Python

Filter by title

- Overview
- ▼ Installation
- Install Python interpreters
- > Quickstarts
- > Tutorials
- > Concepts
- > How-to guides
- > Reference

How to install Python support in Visual Studio on Windows

02/15/2018 · 5 minutes to read · Contributors

Yo!

To install Python support for Visual Studio (also known as Python Tools for Visual Studio or PTVS), follow the instructions in the section that matches your version of Visual Studio:

- Visual Studio 2017
- Visual Studio 2015
- Visual Studio 2013 and earlier

For Visual Studio 2015 and earlier you also need to separately [install a Python interpreter](#) of your choice (Python 3.5 and earlier; 3.6 is not supported and generates the message "Unsupported Python version 3.6"). The same page also contains instructions for adding an existing Python interpreter to

Start from your toolchain

opportunities are probably sittting right in front of you



Thank You!

Send feedback or **get in touch** at:



@nicolaiarocci



nicolaiarocci.com



nicola@nicolaiarocci.com