

Pokémon, Pandas, „BigData“

... and a Magic Flask?

Hi it's me...

> Stephan

Daytime @BITGRIP

Senior Solutions Consultant
Scrum Product Owner

Twitter

@lovebootcaptain

Nights & Weekends @home

Python Developer
Super Hero for my 2 sons
Addicted to Nintendo Games

Github

lovebootcaptain

How does this happened

my story of start coding
being > 30 years old

- Got a RaspPi 2 for christmas from my wife in 2014
- Learned python
- Build things
- Learned even more python
- Build even more things
- Even in my daytime job i can use python to support my work, customers or colleagues
 - Thx @BITGRIP
 - btw: we are hiring 😊 talk to me

Why Pokémon?

My kids and me are totally into Pokémon

Playing games, reading mangas and books

And always all those questions:

- What's the name of this or that pokémon?
- How tall is Pikachu?
- How heavy is Onyx?
- Do you have an image of Bulbasaur?

Is Pokémon BigData?

809 different
little monsters

18 types

300 abilities

750 moves

plus extra:

Stats
Buffs
Debuffs
Items
etc...

So Pokémon is a game?

It's based on simple Pen & Paper
rules like in „Dungeons & Dragons“
or „Das schwarze Auge“.

Water > Fire

Fire > Grass

Grass > Water

So Pokémon is a
game?

Simple attacks, armor, healthpoints
and dices roles -> attacktable

So you can do a lot better if you
know the math and some rules
behind those monsters.

Conclusion

Buy the Pokédex as a book?

„There must be a better way“

Mr. Raymond Hettinger - one of the core Python programming language developers

Conclusion

Build a Pokédex?

But how...?

OpenSource API

<https://pokeapi.co/>

python wrapper for pokeapi

<https://github.com/PokeAPI/pokebase>

But it is too slow if you want
to translate

I have read about this pandas...
maybe they and the pokemon like
each other

Pandas

Cause Excel is a bitch...

pandas is an open source, BSD-licensed library providing high-performance, easy-to-use data structures and data analysis tools for the Python programming language.

Jupyter Notebook

The Jupyter Notebook is an open-source web application that allows you to create and share documents that contain live code, equations, visualizations and narrative text.

Flask

Just 5 lines of code for
an API

Flask is a lightweight WSGI web application framework. It is designed to make getting started quick and easy, with the ability to scale up to complex applications.

It began as a simple wrapper around Werkzeug and Jinja and has become one of the most popular Python web application frameworks.

Live Coding Session

Be careful ...

Maybe some things
work unexpected

Get the code on github

<https://github.com/LoveBootCaptain/pokepandaflask>

Docs

Latest Python is 3.8.1

<https://www.python.org/downloads/release/python-381/>

A RESTful API for Pokémon

<https://github.com/PokeAPI/pokeapi>

python wrapper for pokeapi

<https://github.com/PokeAPI/pokebase>

Pokédex csv data

[PokeAPI] <https://github.com/PokeAPI/pokeapi>

[veekun] <https://github.com/veekun/pokedex>

Pandas

<https://pandas.pydata.org/pandas-docs/version/1.0.0/>

Flask

<http://flask.palletsprojects.com/en/1.1.x/>

Corey Schafer YouTube

https://www.youtube.com/channel/UCCezlgC97PvUuR4_gbFUs5g

Best Speeches of Mr. Hettinger. Part 1

<https://py.checkio.org/blog/5-best-speeches-mr-raymond-hettinger/>

Thank you very much !!

Any Questions?