

# WORKING WITH APIS IN PYTHON

Joseph Nelson, Data Science Immersive

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# AGENDA

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- **Intro**
- **HTTP**
- **APIs**
- **Scrapping**

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**WHO ARE YOU, JOSEPH?**

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**George Box: All models are wrong. Some are useful.**

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## BASIC INFO

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‣ Data Science Immersive Instructor



‣ **From:** Des Moines, Iowa

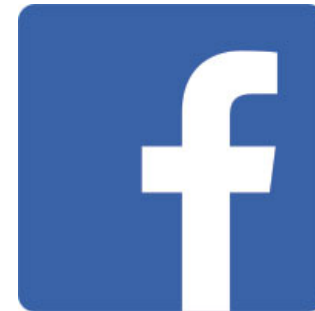
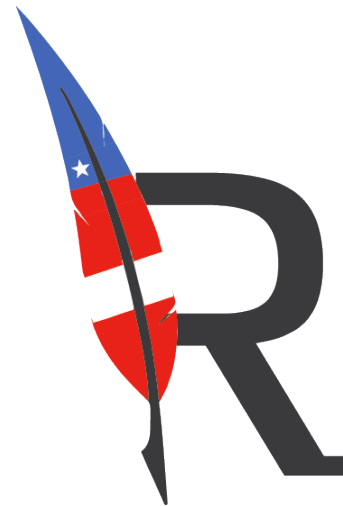
‣ **Likes:** Hockey, bad data science puns, SaaS startups, running, reading

‣ **Influences:** Marc Andreessen & Ben Horowitz, Zuckerberg, Andrew Ng, Yann LeCun, Jürgen Schmidhuber

‣ **Professionally:**



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## WHO ARE YOU, CLASS?

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- We have a lot here! Lightning quick:
- Name
- Scale of 0 to 5 Python experience
- Favorite app/tech company (e.g. FB, Airbnb, Evernote)

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## WHAT IS AN API?

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- Toss this out to the class: what is an API? Best guesses!

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## WHAT IS AN API?

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- An Application Programming Interface is a set of protocols, routines, and tools for building software applications.
- They're (partially) the reason a number of your favorite applications work. The ability for Uber to load Google Maps is a prime example!

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## WHY ARE APIS VALUABLE?

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- Class suggestions? Why?
- From the standpoint of a company, why would you make it easier to access information you've worked hard to collect to make your product a success?



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## WHY ARE APIS VALUABLE?

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- **APIs are channel to new customers and markets:** Attracting new users via your app being baked into other services – this grows your exposure
- **APIs can be private:** Internal APIs power apps (Communicate with server)
- **APIs promote innovation:** Third party developers build on top of your service, and your service may learn and make these features default (FollowerWonk)
- **APIs retain current users:** By continually providing value to current users or making your platform the default for, say, mapping the world, your service becomes harder to displace (Google Maps, sign in with FB)

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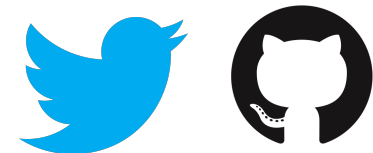
## NEXT STEPS

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- Please! Consider visiting the additional resources I've made available on the readme in our repository. The best thing you can do is keep practicing your skills.
- Notably:
- [www.josephofiowa.com/entropy](http://www.josephofiowa.com/entropy)
- Data Science Immersive



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