KOLT PythonThird-Party Packages

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Agenda

- 1. Package Management
- 2. Solving a Real Life Problem
- 3. Final Project

Python Package Index (PyPI)

Repository of software for the Python programming language.

- 23,000+ Python3 packages.
- If you want a package, PyPI probably has it.

pip

- Recommended tool for installing Python packages.
- pip is already installed with modern Python distributions.
- Try pip -V on your command line/terminal(pip3 -V for Macs).

```
$ pip -V
pip 19.0.3 from --PATH_TO_PIP-- (python 3.7)
```

Any problems?

Common pip commands

Install a package:

- \$ pip install package_name # latest version
- \$ pip install package_name==1.0.1 # specific version
- \$ pip install package_name>=1.0.1 # minimum version

Uninstall a package:

\$ pip uninstall package_name

Update a package:

\$ pip install --upgrade package_name

Search PyPI for matches:

\$ pip search query



Solving a Real Life Problem





Problems

- No option for Masters/PhD levels
- No standard for study areas(majors)
- What do you study in Koç?
 - Business Administration
 - Bussines Administratiom
 - Business
 - BA
 - •

Responses	Total visits	Unique visits	Completion rate	Average time to complete
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How to Categorize Students?

We need academic level and major statistics of applicants. What can we use?

- Jokes?
- Student mails?
- KU usernames?

ldap.ku.edu.tr



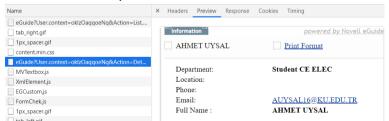
How to Categorize Students?





Where did this information come?

- Open the **developer console** on your browser.
- Windows: Ctrl+Shift+I, Mac: Option+Command+I
- Go to **network** tab.
- Search for a person.





HTTP Requests

Your browser sent a HTTP GET request to

http://ldap.ku.edu.tr/eGuide/servlet/eGuide to get the data. Examine the request using a tool like Postman.



Can we send this request programmatically?



requests package

requests: HTTP for Humans
install using pip: \$ pip install requests
requests Quickstart

```
import requests
response = requests.get('https://google.com')
print(response.content)
```

import Statements

Problem Solution

You can get the source code *here*. Solution will be discussed during class time, you can ask your questions with email if you missed the class.

Final Project

Final project is on!

- You will work as teams of 2 or 3.
- You can choose any topic, might be related to your research/other courses
- Choose something you will enjoy working on
- We will spend most of our remaining class time working on your projects
- Proposals due next Monday!

