Python - REST API's, Requests and JSON	
What is an API	
Application Programming Interface     SOA - Service Oriented Architecture	
What is a REST API Representational State Transfer	
API Key Limits Rate Limiting Caching ??? A web page for computers	
Provides data in XML, JSON or HTML  Example =  https://www.ipfly.org/  https://ip-apl.com/  https://je-apl.com/	
https://github.com/public-apis/public-apis	

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What is JSON	
<ul><li>JavaScript Object Notation</li><li>Standardized way to send data on Internet.</li></ul>	
<ul><li>Name/ Value Pairs</li><li>Example = http://ip-api.com/json/151.101.3.5</li></ul>	
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Requests Module	
nequests Module	
<ul><li>python3 -m pip install requests</li><li>get('http://www.cnn.com')</li></ul>	
Allows you to pull in the data from a web page as a variable value	
• Example = get.py	
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Reading REST Response	
<ul><li>.status_code</li><li>.headers</li></ul>	
• .text	
<ul><li>.json()</li><li>Example = Next Slide / IPIFY Example</li></ul>	

IPIFY.org - External IP Address	
<ul><li>https://www.ipify.org/</li></ul>	
<ul><li>Free Use Without Limit</li><li>https://api.ipify.org</li></ul>	
<ul><li>https://api.ipify.org?format=json</li><li>Example = ipify.py</li></ul>	
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Pretty JSON - dumps	
Think of JSON as Nested Sets	
<ul> <li>dumps turns JSON into formatted String</li> <li>Example = json-pretty.py</li> </ul>	
Labs	
<ul><li>lab-restrict.py</li><li>lab-language.py</li></ul>	
• lab-geo.py	