

stripe

DevX Singapore



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API Evangelist
Axway

APIs for Humans | March 2019

7:00 - 7:30 PM

APIs for Humans

Uli Hitzel

7:30 - 8:00 PM

AR for Everyone

Thinh Le

8:00 - 8:30 PM

Modelling Marketplaces with GraphQL

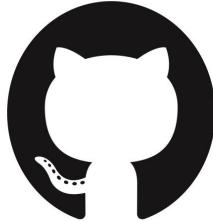
Thorsten Schaeff



Developer Advocate



/in/uhitzel



/u1i/slides



IBM



Y!





cosmicrenaissance

1,257 posts

194 followers

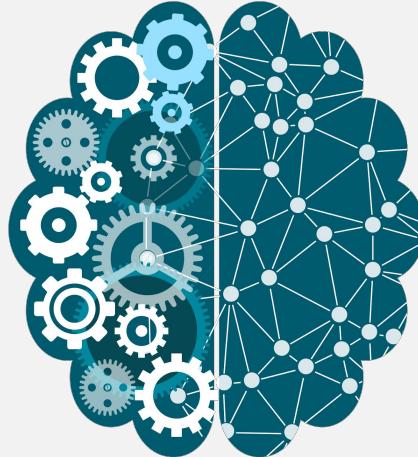
615 following

Just some guy, really.

+65

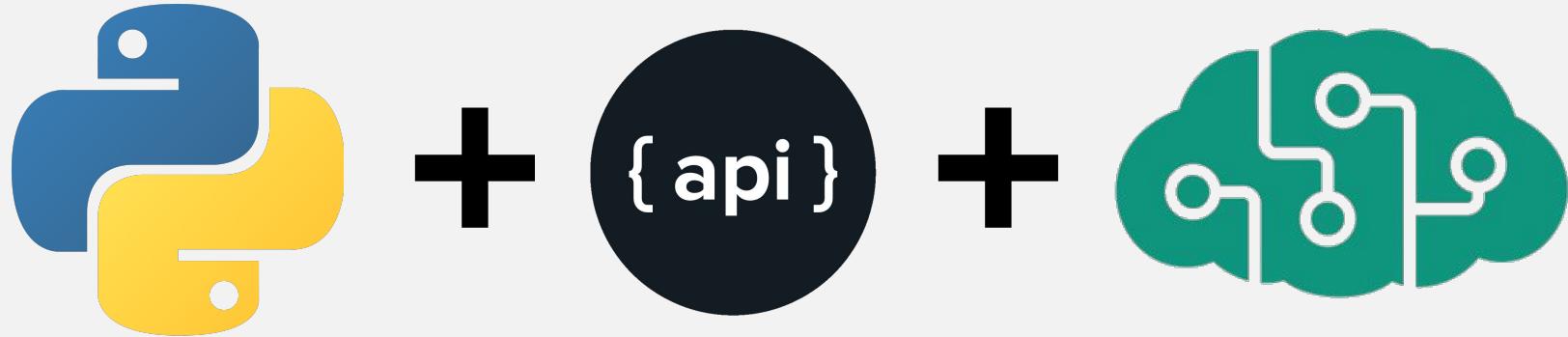
City life, scenery, food.

Camera: Samsung Galaxy S7/S9



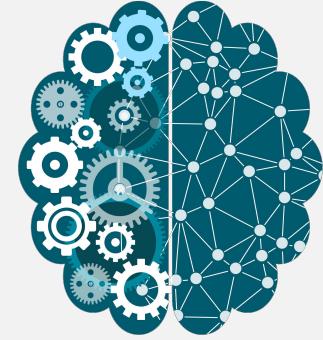
{ api }

A word cloud visualization showing various nouns and adjectives in different colors (blue, green, orange, red) against a black background. The words are arranged in a grid-like pattern. Three specific words are highlighted with green circles: **bench**, **view**, and **plate**. The word **bench** is surrounded by **wine**, **desk**, **crowd**, **piece**, and **skiing**. The word **view** is surrounded by **light**, **young**, **meal**, **tree**, and **computer**. The word **plate** is surrounded by **food**, **pan**, **toppings**, **luggage**, **park**, **living**, **banana**, and **horse**.



Microsoft

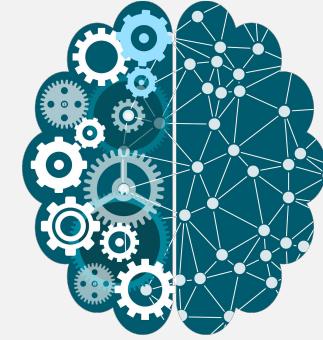
Cognitive Services



Text: "a close up of a pizza"

Confidence: 0.9246481371443355

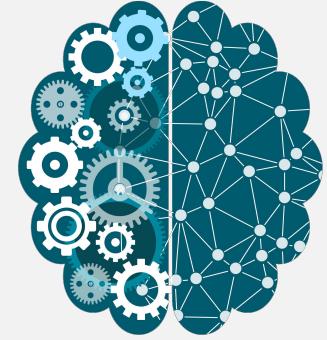
Tags: "pizza" "food" "table" "sitting" "cheese" "plate" "top" "piece" "slice" "toppings" "close" "eaten" "sauce" "covered" "wooden" "large" "pepperoni" "white" "pan"



Text: "a cup of coffee"

Confidence: 0.8527612488821656

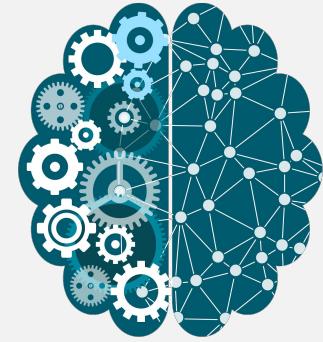
Tags: "cup" "table" "coffee" "food" "sitting" "drink" "plate" "sandwich" "breakfast"
"spoon" "glass" "close" "donut" "hot" "white" "phone" "soup"



Text: "a wooden table next to a window"

Confidence: 0.8365439206950018

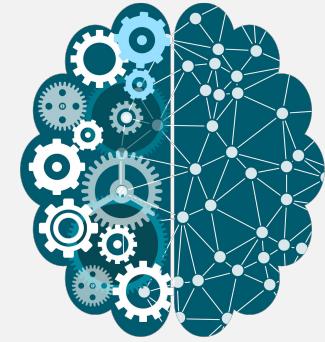
Tags: "table" "indoor" "window" "room" "sitting" "chair" "small" "desk" "wooden" "laptop" "lit" "top" "light" "counter" "computer" "living" "kitchen"



Text: "a sunset over the ocean"

Confidence: 0.8065587199349568

Tags: "outdoor" "water" "beach" "sunset" "ocean" "sun" "man" "pier" "track" "board"
"top" "large" "red" "standing" "surfing" "walking" "boat" "holding" "flying"



Text: "a bunch of bananas"

Confidence: 0.37608016747604295

Tags: "animal" "covered" "sitting" "old" "side" "large" "water" "lot" "many" "top" "table" "bunch" "street" "fire" "bird" "snow" "parking" "group" "river" "ocean" "field"

Key Points

- 1 – Build APIs:
Design First, Code Later

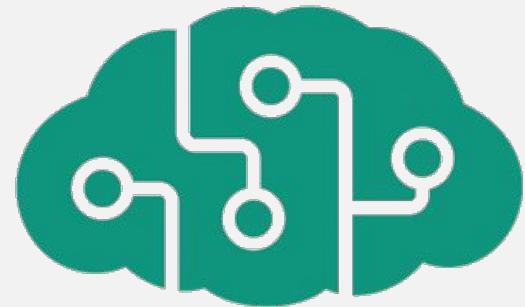
- 2 – Manage APIs:
Divide & Conquer

- 3 – API Adoption: Developer
Experience is Everything



You've just seen an example of this

- API abstracts something really complex
- Quick Results
- Easy to use → More Users → More Sample Data → AI learns → Better Product



 Microsoft
Cognitive Services

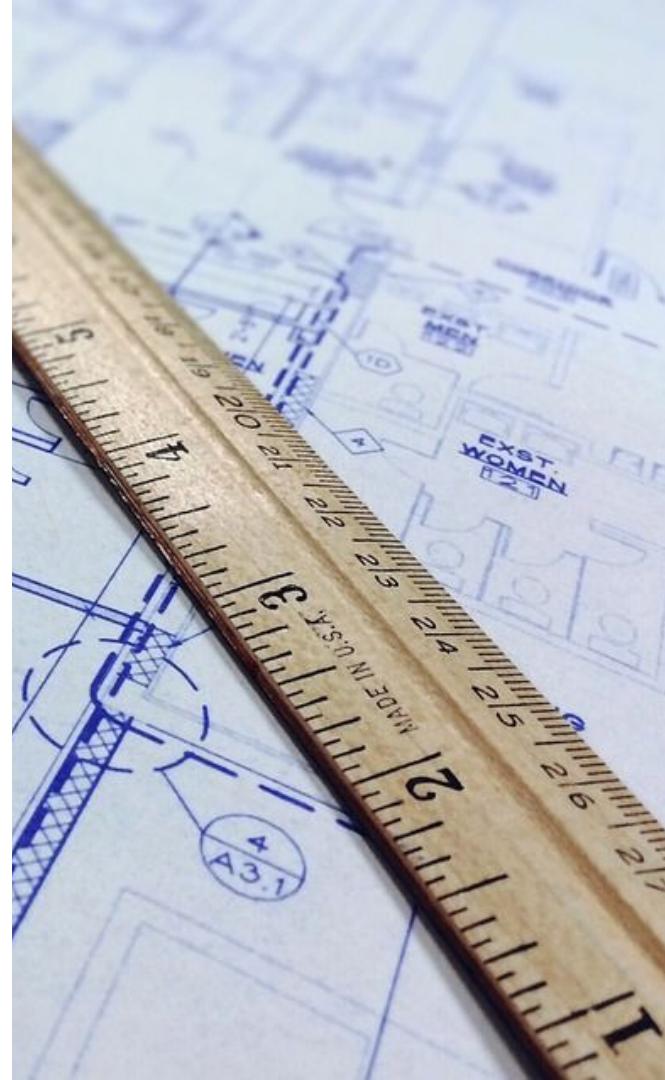


Design First

- Start with the Interface
- Use API Design Guides
- Quick Prototyping & Mocking

Be Strict about This

C R U D	E E P E L E T	R A U D E	E A T E A T E
CREATE		HTTP POST /resource + Payload	
	↔	201 + Location	
READ		HTTP GET /resource	
	↔	200 + Payload	
UPDATE		HTTP PUT /resource/{id} + Payload	
	↔	200/204	
DELETE		HTTP DELETE /resource/{id}	
	↔	200/204	



Use & Share Design Guidelines

The API Guidelines are split into two main parts:

- General Guidelines
- API type-specific Guidelines
 - REST APIs Guidelines
 - Kafka Guidelines

The general guidelines section discusses the core principles relevant to any kind of API. The API type-specific section further defines the guidelines specific to a given architectural style or API technique (such as REST, Kafka or GraphQL APIs).

How to read the Guidelines

These Guidelines are available for online reading at [GitBook](#) its source can be found on [GitHub](#).

The CAPITALIZED words throughout these guidelines have a special meaning:

- 1 The key words "MUST", "MUST NOT", "REQUIRED", "SHALL", "SHALL NOT",
- 2 "SHOULD", "SHOULD NOT", "RECOMMENDED", "MAY", and "OPTIONAL" in
- 3 this document are to be interpreted as described in RFC2119.



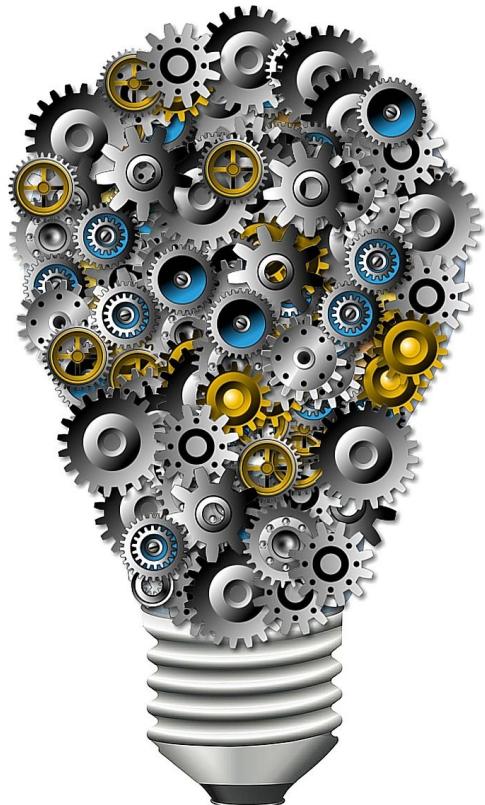
apistylebook.com



Iterations

Clean API Specs

- Generate Docu + SDK
- Mock with 'Semantics'
- Test
- Refine & Repeat



Divide & Conquer

- Do you really need to code?
- Centralized Governance
and Unified Experience
- API Management as
Control Plane

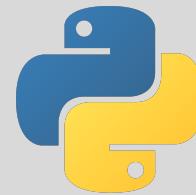
Use

- API Portal
- Swagger/OAS
- API Keys
- OAuth
- HTTP
- JSON
- Sandbox

Manage

- Access Control
- Security
- Quotas
- Transformation
- Service Catalog
- Self Service
- Analytics

Build





Developer Experience

- Who is your Customer?
- Give them Quick Results
- Involve them

3



Products made by Fans

Can you think like a developer, if you're not a developer yourself?

'Hello World' in 30 Minutes

- Instant Access
- Sandbox
- Examples, Tutorials & 'Flavored' Documentation



Involve & Empower your Audience

- Git powered Documentation
→ Pull Requests
- API Portal as your Developer Community
- Meetups, Success Engineers
- Developer Experience → Building Relationships



Takeaways

- 1 – Build APIs:
Design First, Code Later
- 2 – Manage APIs:
Divide & Conquer
- 3 – API Adoption: Developer
Experience is Everything



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