



Integrating visual communication and storytelling in Software Engineering



Vaishnavi V
Solutions Architect | Code Wrangler



HOW YOU DOIN'



HAPPY



OKAY



MEH



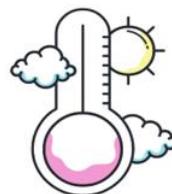
WHERE'S MY
COFFEE



YAWN



SNOOZE

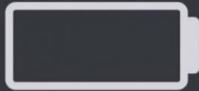


THIRSTY



HUNGRY

WARNING



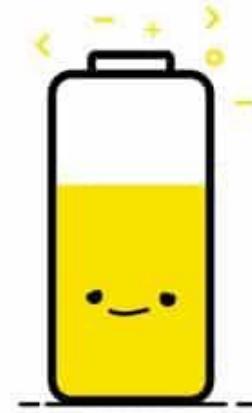
SOCIAL BATTERY LOW



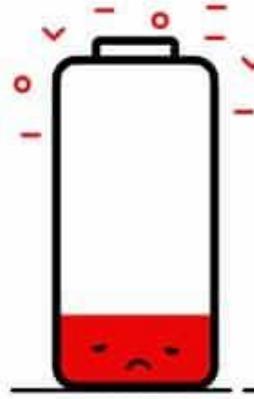
GOOD DAY CHARGE



GETTING READY



TRAVEL TO EVENT

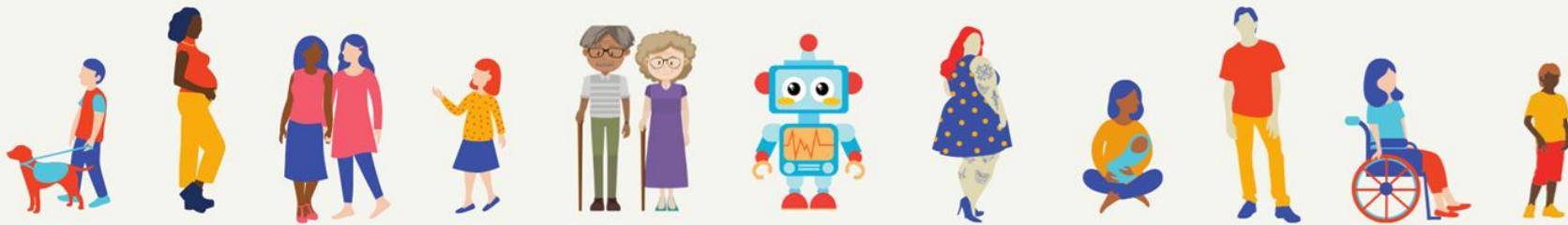
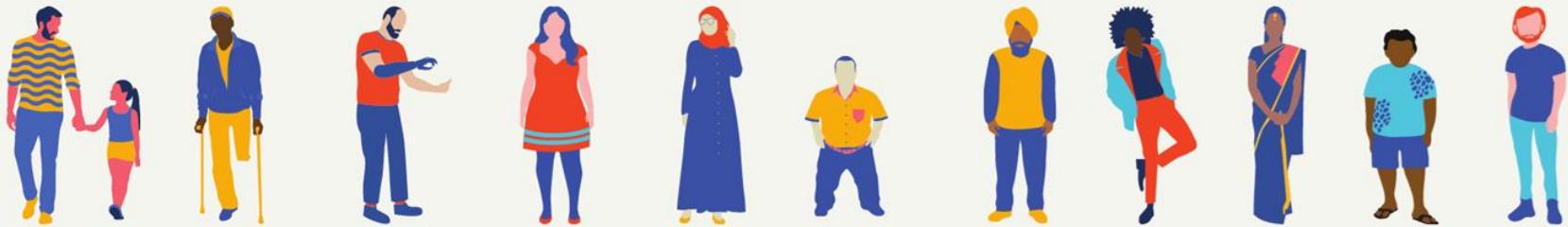


1 - 3 HOURS BEING OUT



TRAVEL HOME

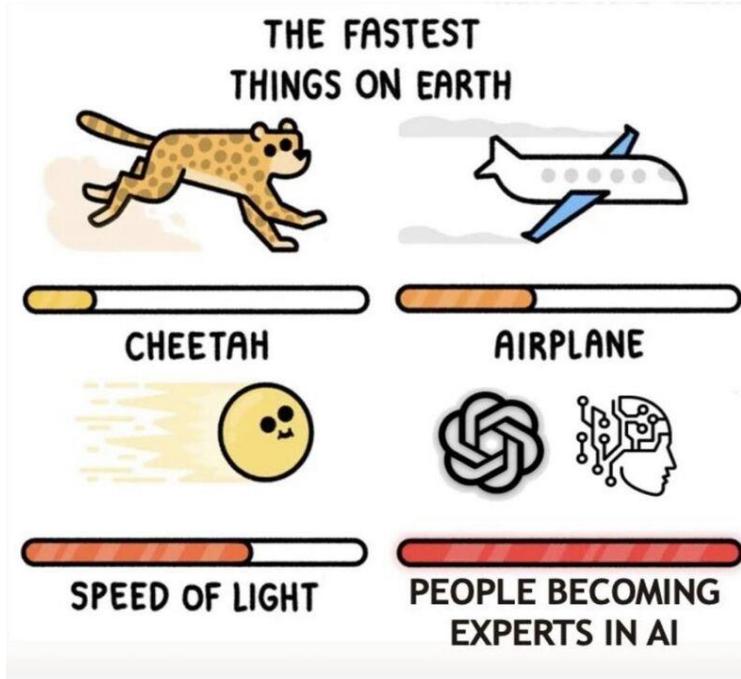




Disclaimer



Not an expert!



Glossophobia

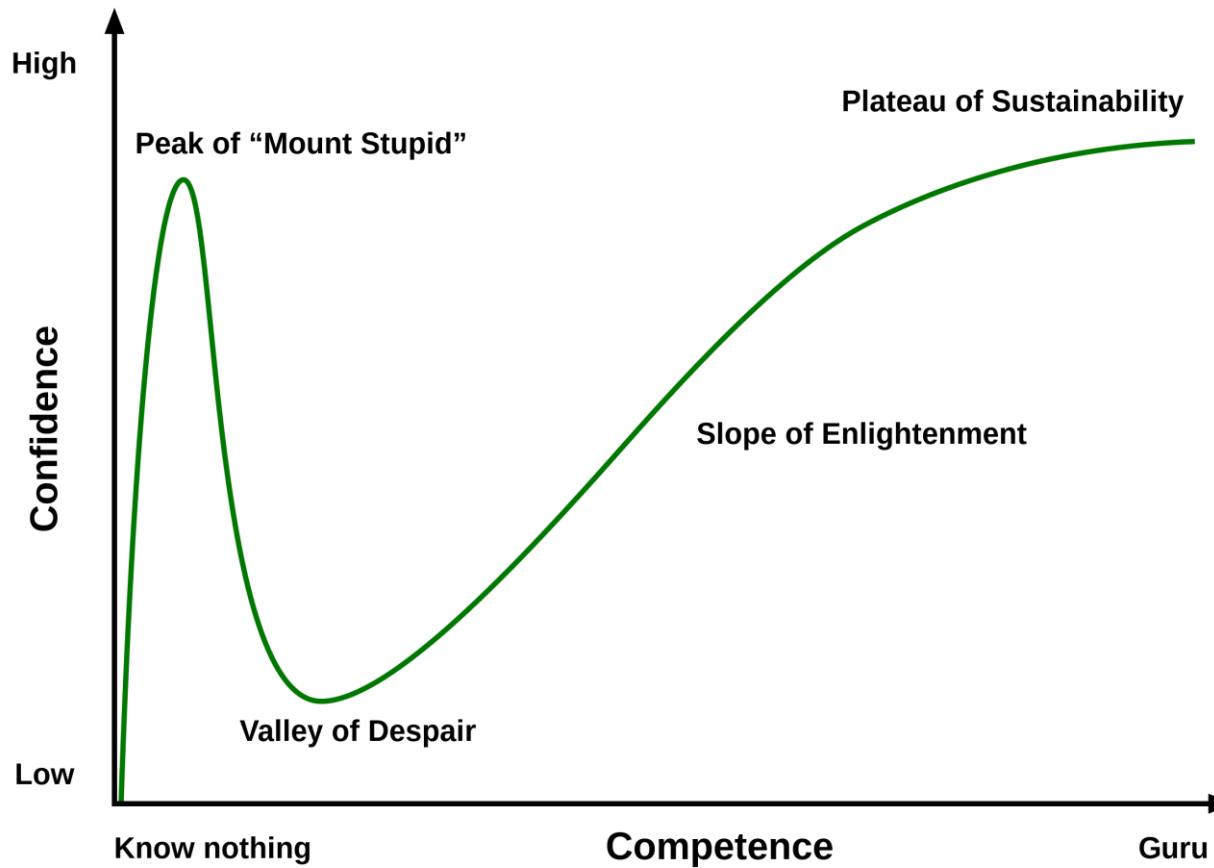




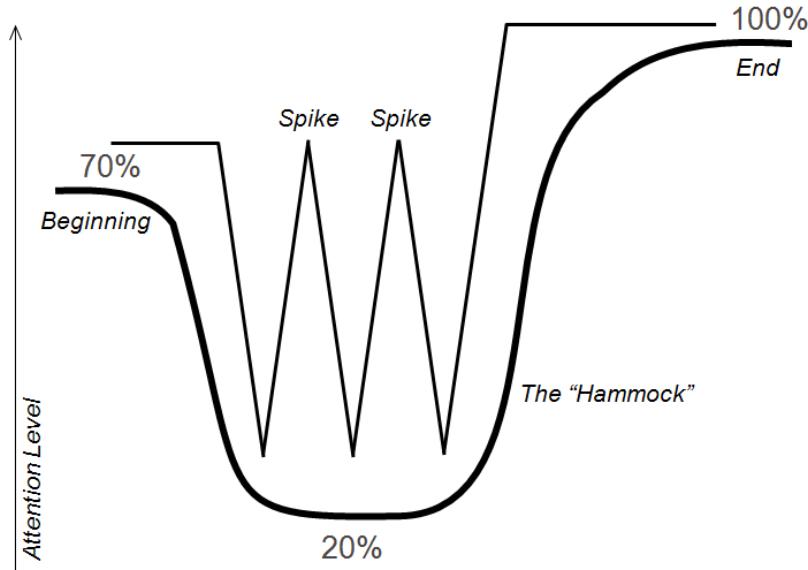
**Presentation is auto
biographical –
Sample size of 1**

No spandex required!

Dunning–Kruger Effect

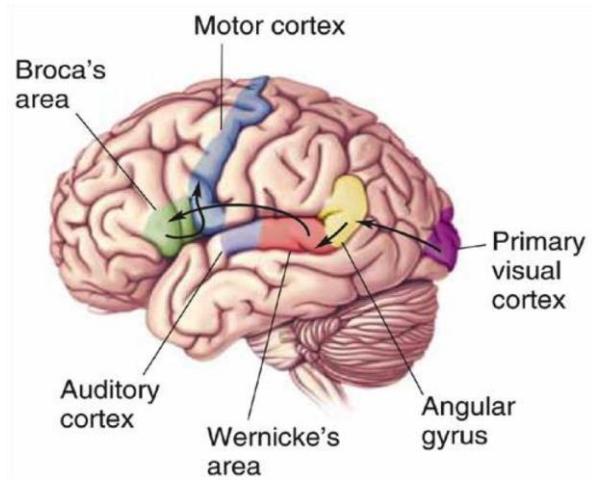


Human attention : The Hammock and the Spikes



Source : Keeping the Audience Engaged with Presentation “Spikes”

Visual information vs reading words

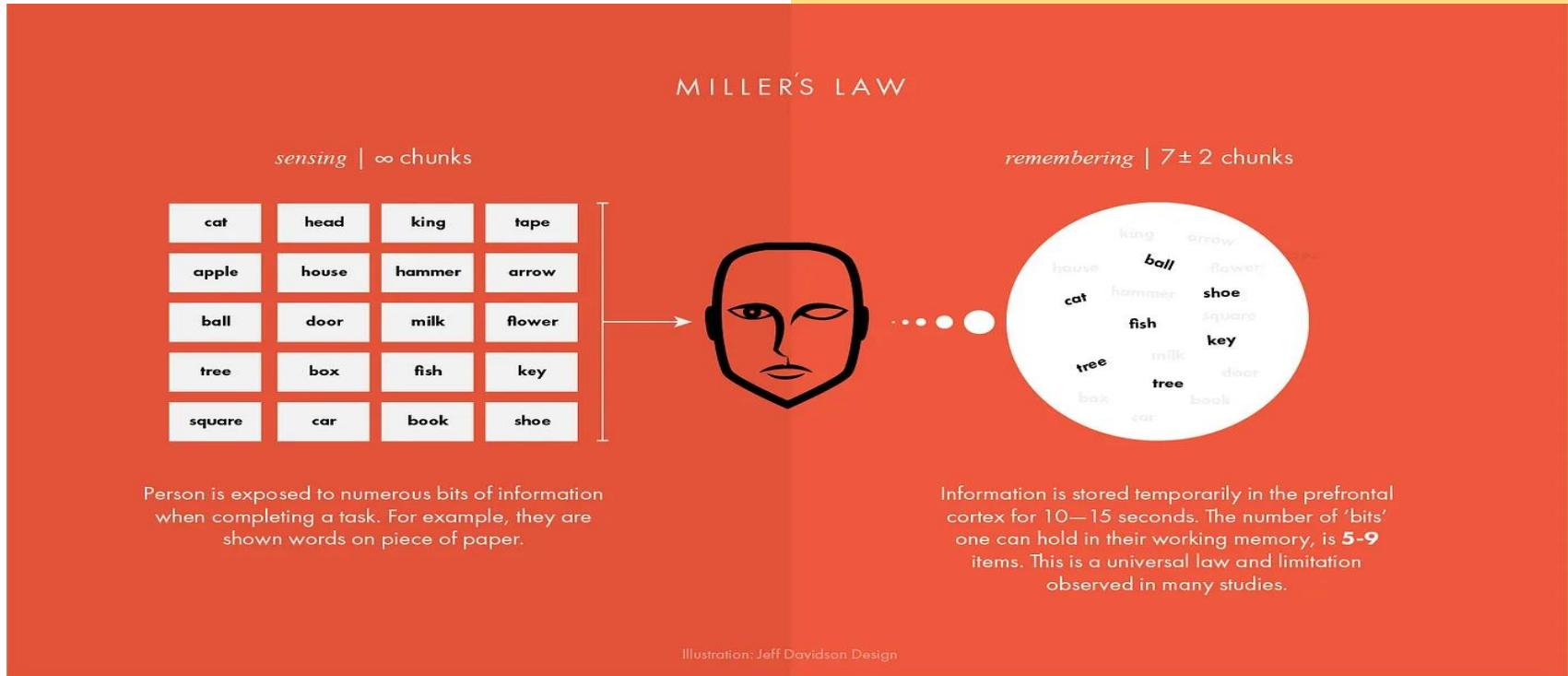


MILLER'S LAW



Illustration: Jeff Davidson Design

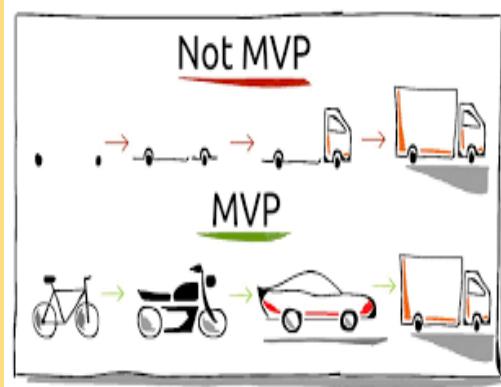
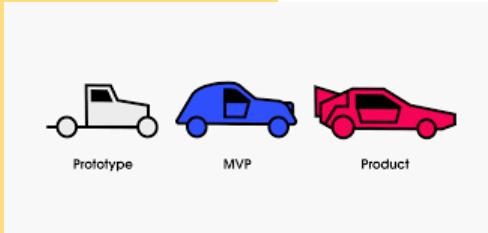
George Miller's Magical Number of Immediate Memory



Definition



Visual communication is the practice of using visual elements to get a message across, inspire change, or evoke an emotion.



Perfect MVP

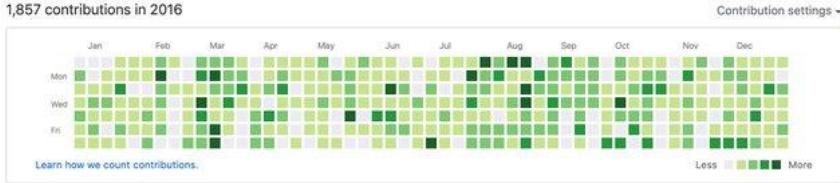
- Communication design refers to crafting a message that educates, motivates, and engages the viewer.
- Graphic design uses design principles to communicate that message in a way that is clear and eye-catching to the intended audience.

Z73.0

996. icu

Visualizing burnout

1,857 contributions in 2016



1,673 contributions in 2017



1,224 contributions in 2018

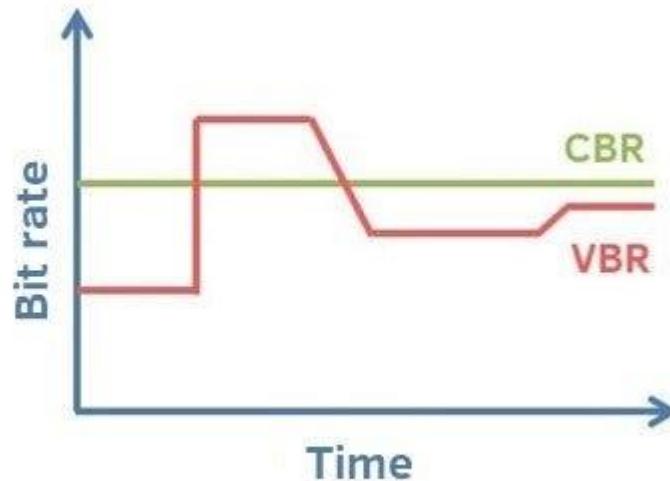


287 contributions in the last year



Credits : [Jonnie Hallman](#)

Crest and trough



Tell, Don't Ask

In case of fire



1. git commit

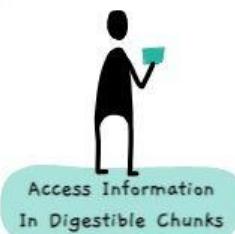
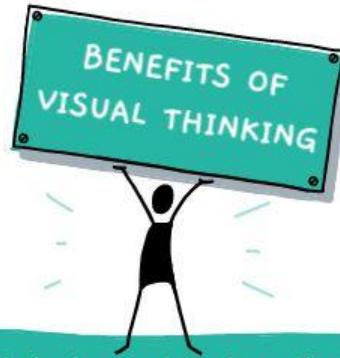
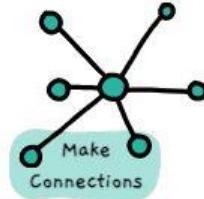


2. git push



3. leave building

- “Programs must be written for people to read, and only incidentally for machines to execute” (SICP)*



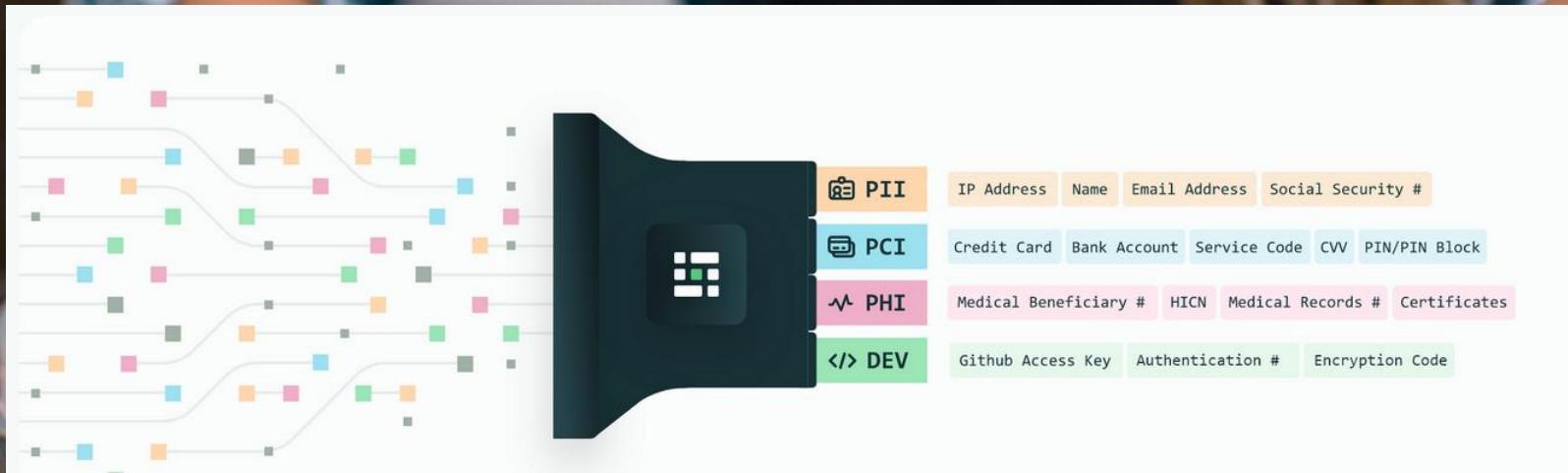
Visual thinking externalizes thinking so you and others can "see what you mean." This allows you to:



A close-up photograph of a person's hands reaching towards a cluster of succulent plants. The person is wearing a blue and white checkered shirt. The background is blurred, focusing on the green, fleshy leaves of the succulents. A large yellow rectangular overlay covers the middle portion of the image, containing the word "Examples".

Examples

Privacy

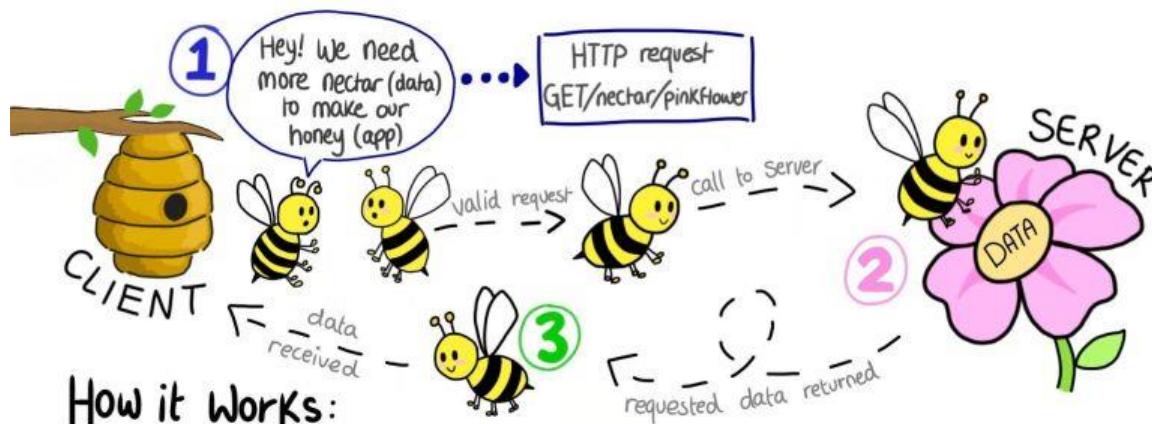


Source : Medium blog

What is an API ?

@Rapid_API 

An application programming interface allows two programs to communicate. On the web, APIs sit between an application and a web server, and facilitate the transfer of data.



How it Works:

1 Request

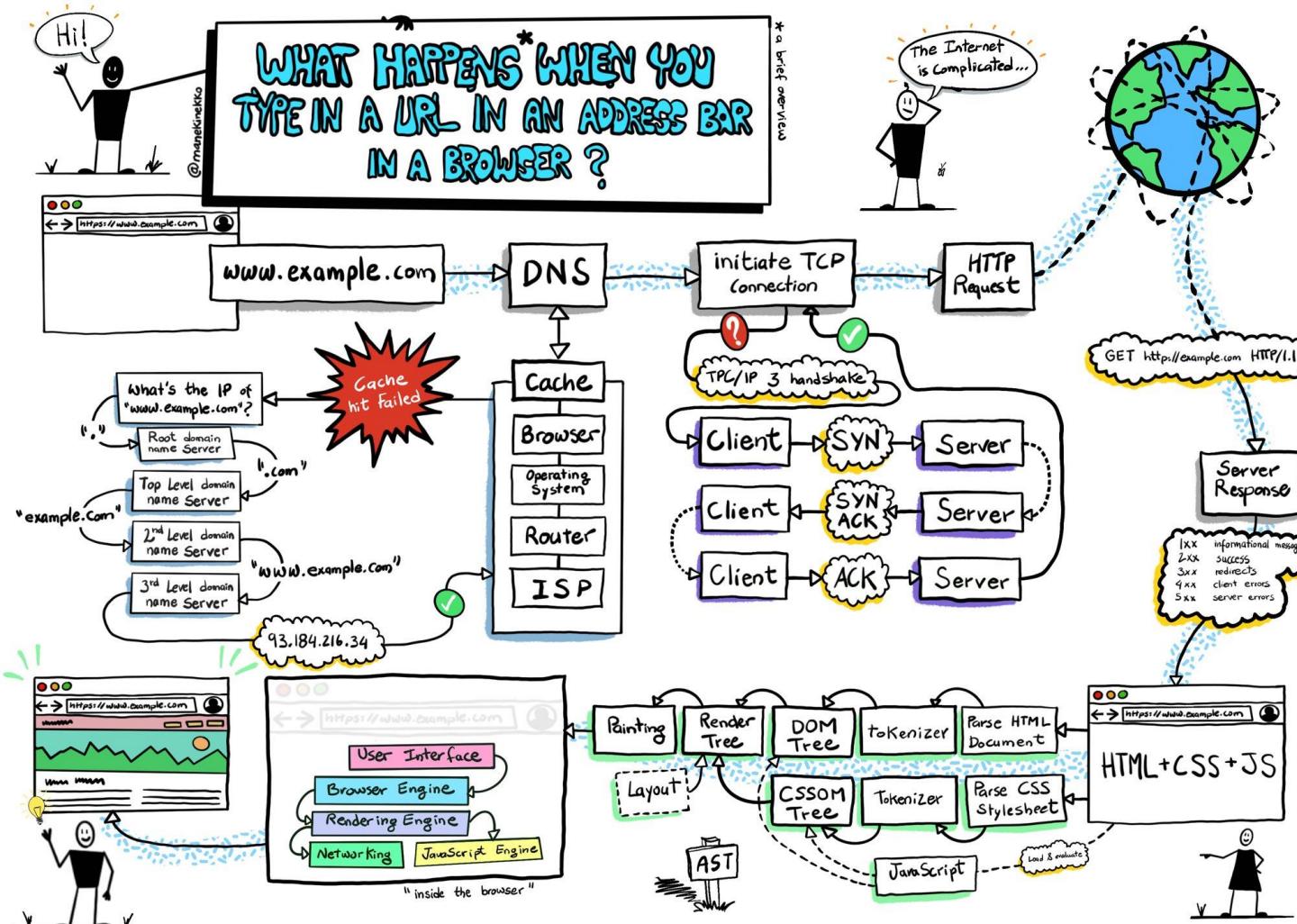
API call is initiated by the Client application via a HTTP request

2 Receive

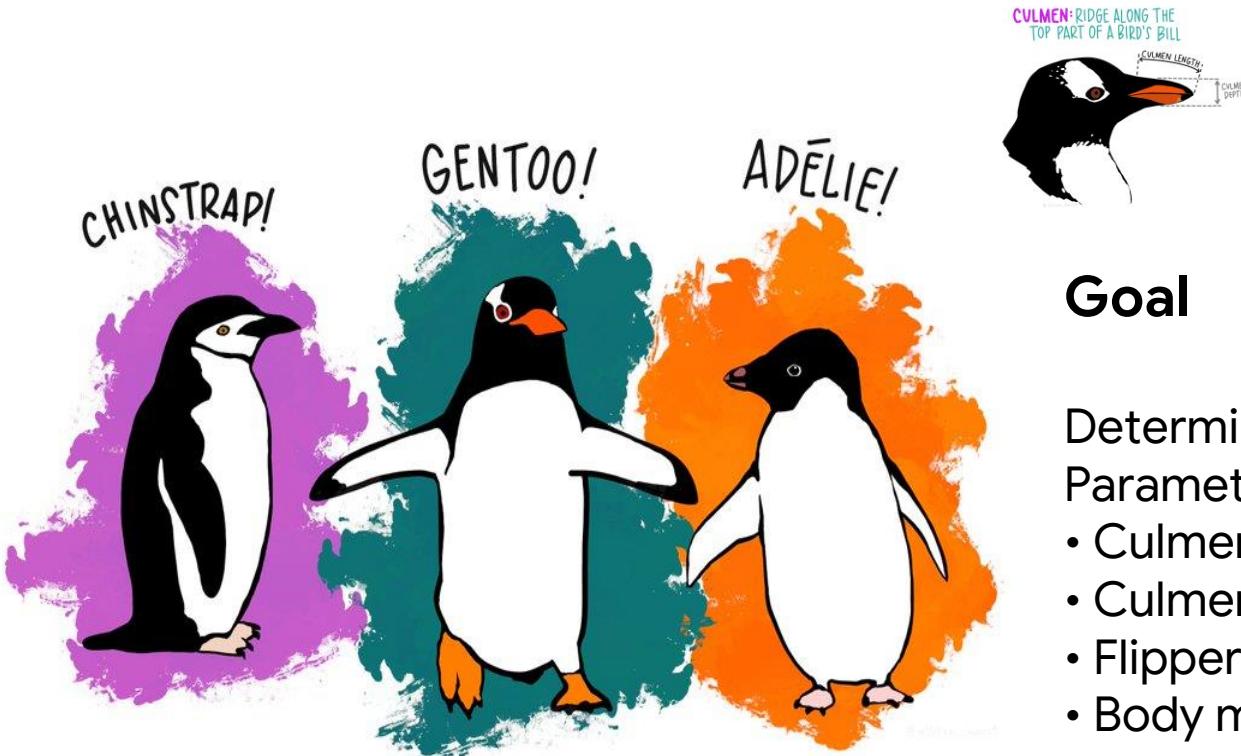
Our worker bee acts as an API, going to a flower (server) to collect nectar (data)

3 Response

The API transfers the requested data back to the requesting application, usually in JSON format



Penguin Dataset



Goal

Determine the species of a penguin

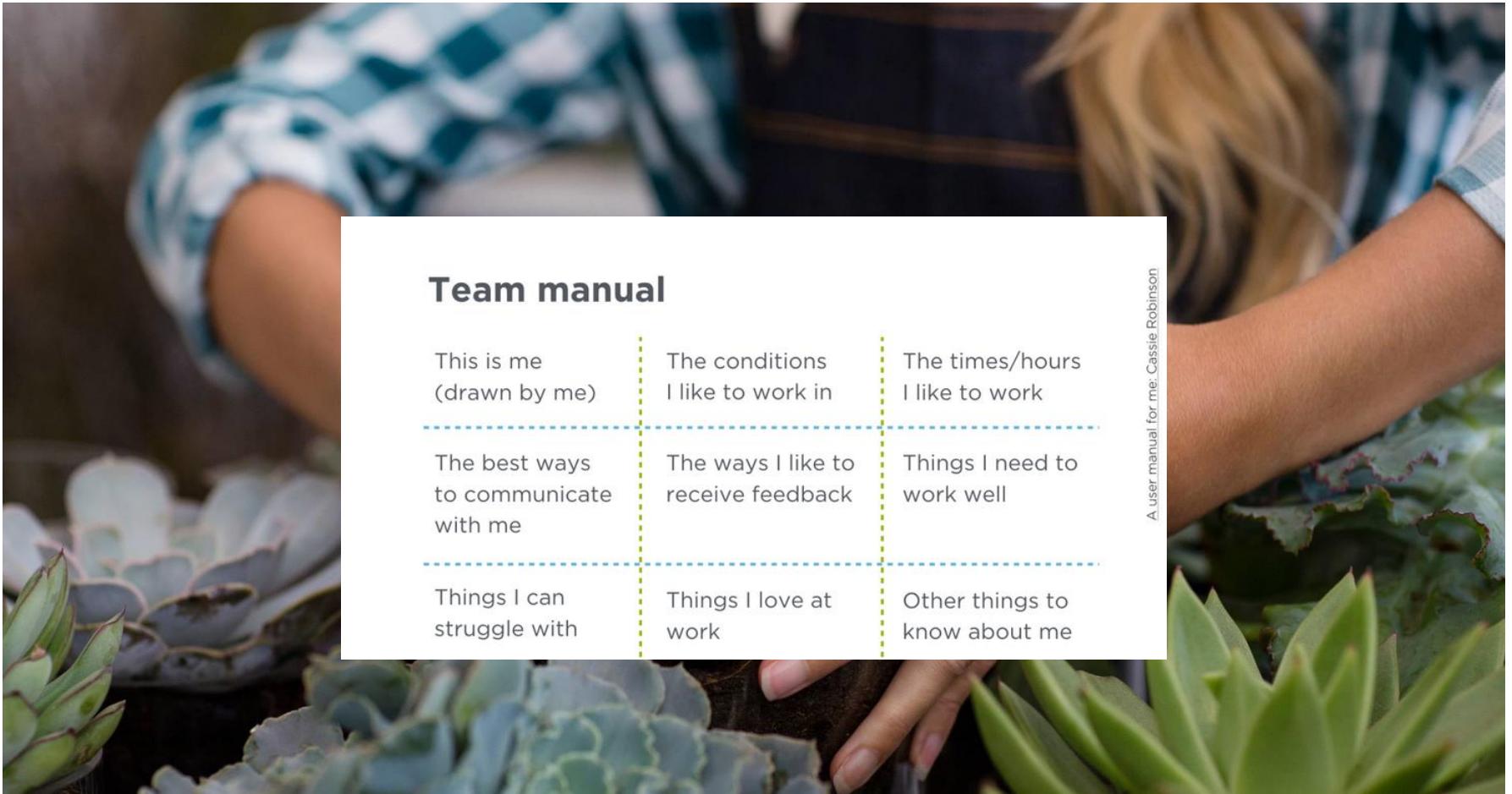
Parameters :

- Culmen length
- Culmen depth
- Flipper length
- Body mass

A close-up photograph of a person's hands reaching towards a cluster of light green, spiky succulents. The person is wearing a blue and white checkered shirt. The background is blurred.

Manual Of Me





Team manual

This is me
(drawn by me)

The conditions
I like to work in

The times/hours
I like to work

The best ways
to communicate
with me

The ways I like to
receive feedback

Things I need to
work well

Things I can
struggle with

Things I love at
work

Other things to
know about me

A user manual for me: Cassie Robinson

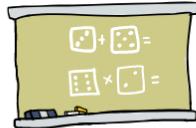
Hello,
I'm Vaishnavi



Vancouver



Things I ❤️



Teaching



Public Speaking



Visual Communication

Things I do 🎨



Software Engineering



Ideation



Team collaboration

How to Give Me Feedback 💬

Direct constructive feedback provided with utmost honesty to help me grow.
Data driven and candid conversations with potential solutions for me to thrive and succeed.

Comms Preferences 📱



Working Patterns ☀️



- Morning Person
- Enjoy a quiet and vibrant environment
- Follow Pomodoro Technique 🍅

Things I struggle with 🤪



Mickey Mouse Job
#halfbaked



Yak Shaving



Interruptions

“Simple things should be simple,
complex things should be possible.” - Alan Kay

P.S: No animals or disney characters were harmed in the making of this manual





MISSION

302 🚀 Mission Found

Empower marginalized community through the power of technology, story telling and visual communication one person, one story, one visual at a time.



101 ✅ Switching Protocol
426 ✨ Upgrade Required



WARNING

406 ⚠️ Not Acceptable
504 ⏱ Gateway Timeout

- All my scheduled meetings need an agenda.
- Known to burn myself out.
- Tackle the Talkers and Enable the Doers
- Swiss Army Knife
- Struggle to take compliments
- Trying to channelise my Internal Saboteurs



VISION

100 🌟 Continue
103 ✨ Early Hints

To serve as an empathetic and honest leader and use my voice as a speaker and advocating for representation in tech to improve the lives of underrepresented people..



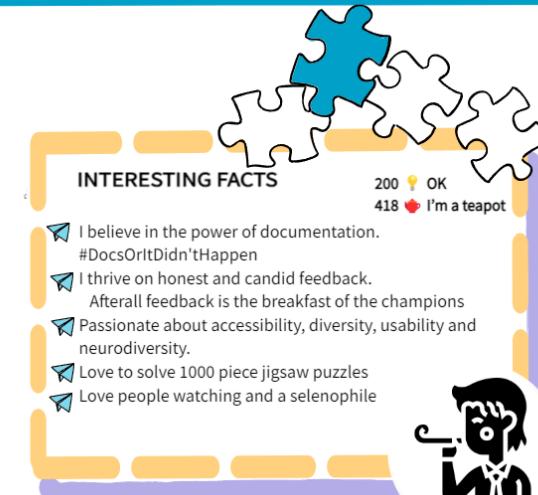
MANAGEMENT style

*420 🧘 Enhance Your Calm

Combination of Quiet, Servant and Visionary Leadership



```
JS HelloWord.js
document.write('Hello World');
console.log('Hello World');
alert('Hello World');
```



KNOWN DEFECTS

500 💢 Internal Server Error
506 💢 Variant Also Negotiates

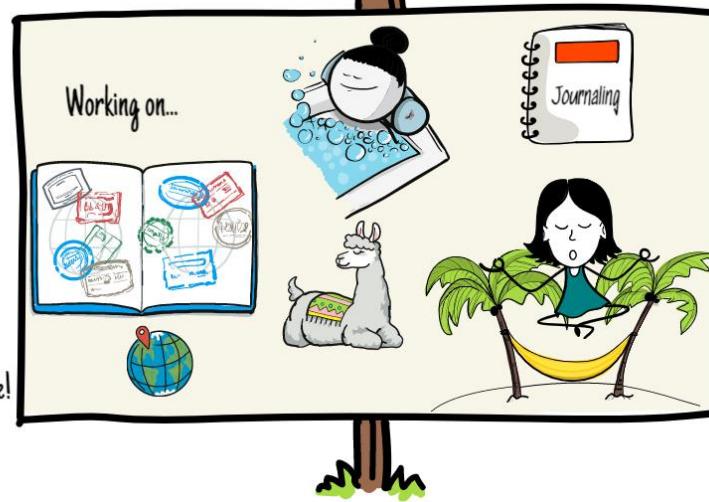
- People pleaser, leading to overcommitment
- Struggle to say no
- Self-critic
- Don't always take my own advice
- Falling victim to comparison trap
- Can get in my own way
- Sensory overload



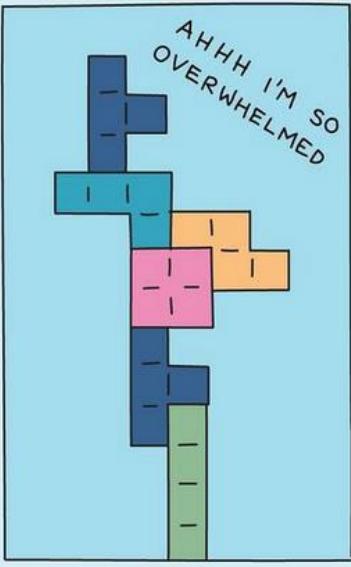
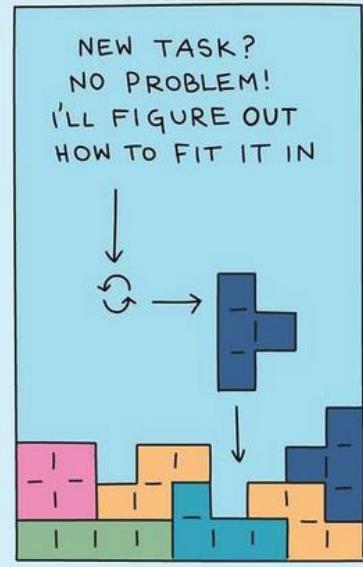
*3 digit numbers are HTTP Status Codes



Title : Manual Of Me
Version : 1.0
Release: March 2023



Ideas

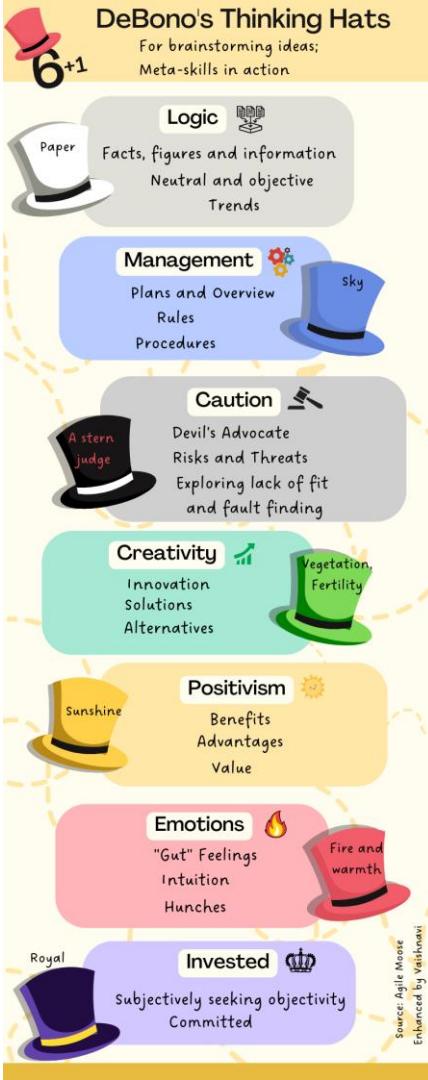


Take a break!

```
import time

def pomodoro_timer(minutes):
    for i in range(minutes * 60, 0, -1):
        print(f"Time remaining: {i//60}:{i%60:02d}", end="\r")
        time.sleep(1)
    print("Time's up!")
```





Resources

[Plant UML](#)

Waysfinder Framework

The Waysfinder provides a scaffold that enables new thinking and practice, not a series of linear steps. It is made up of a combination of various types of constraints and wayfinding practices that collectively create a coherent adaptive space or search field.

Sankey

<https://sankeymatic.com/>

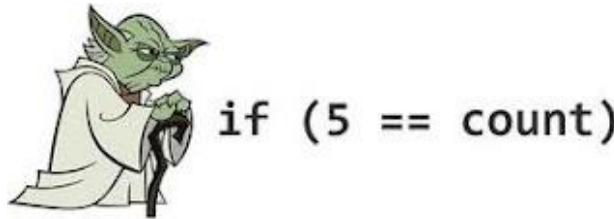
Programmer Jargon

Pokémon Exception Handling



For when you just Gotta Catch 'Em All.

```
try {  
}  
catch (Exception ex) {  
    // Gotcha!  
}
```



ROOKOUT

Heisenbug (n):
A software bug that disappears
or alters its behavior when one
attempts to probe or isolate it.

The Jargon File



A close-up photograph of a person's hands reaching towards a large, light green succulent plant with thick, rounded leaves. The background is blurred, showing more of the plant and a person wearing a blue and white checkered shirt.

Precaution

🚫 Overwhelming the user!



- White, 76.1%
- Hispanic or Latino, 7.8%
- Asian, 7.7%
- Unknown, 3.9%
- Black or African American, 3.8%
- American Indian and Alaska Native, 0.7%

🚫 Clutter



Copyright: .marqs / photocase.com

Colors alone

Inaccessible



Course #	Name
Algo 101	Introduction to Algorithms
Networking 101	Topology and Networking
Gardening 101	Soil therapy for beginners

Red-green color blind?

Colors alone!

Course #	Name
Algo 101	Introduction to Algorithms
Networking 101	Topology and Networking
Gardening 101	Gardening for beginners

Alternate means of communication

Accessible Example ✓

Course #	Name	Required
Algo 101	Introduction to Algorithms	Yes
Networking 101	Topology and Networking	No
Gardening 101	Gardening for beginners	No

Misinterpretation or reading between the lines?



UN Women · Follow
@UN_Women · Follow

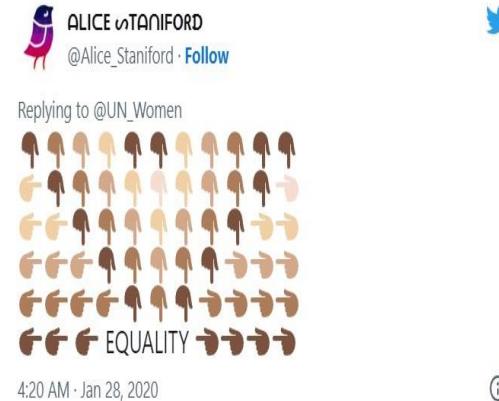
EQUALITY

#GenerationEquality

1:39 PM · Jan 27, 2020

3.4K Reply Share

This is a screenshot of a Twitter post from the official account of UN Women (@UN_Women). The post features a graphic composed of numerous small icons of hands in various shades of brown and tan, arranged in a grid-like pattern. In the center of this grid, the word "EQUALITY" is written in a bold, black, sans-serif font. Below the graphic, the hashtag "#GenerationEquality" is displayed. The post was made at 1:39 PM on January 27, 2020. At the bottom of the screenshot, standard Twitter interaction metrics are shown: 3.4K likes, a reply button, and a share button.



ALICE STANIFORD · Follow
@Alice_Staniford · Follow

Replying to @UN_Women

EQUALITY

4:20 AM · Jan 28, 2020

This is a screenshot of a Twitter reply to the UN Women post. The reply is from a user named ALICE STANIFORD (@Alice_Staniford). The message consists of the same hand icon graphic as the original post, with the word "EQUALITY" centered in the middle. The reply was posted at 4:20 AM on January 28, 2020. The interface shows the standard Twitter reply and quote reply icons.

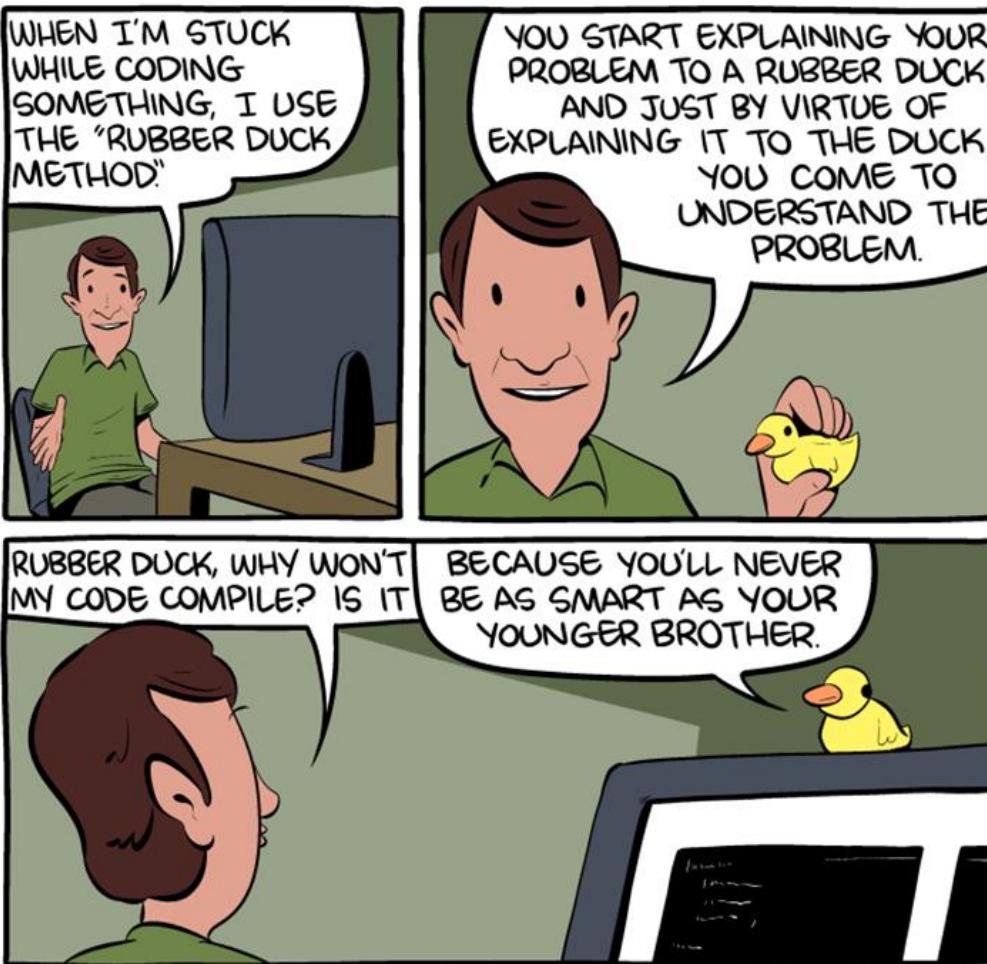
Deepfake technology: seeing is believing, or is it?



“Don’t tell me the moon is shining. Show
me the glint of light on broken glass.”
- Anton Checkhov







smbc-comics.com

Be healthy both mentally and physically



THANK YOU FOR WATCHING OUR PRESENTATION



makeameme.org