# The Importance of the Aha! Moment

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### What is an Aha! Moment?

- Eureka effect or eureka moment
- Can be defined as a moment of:



- sudden, triumphant discovery, inspiration or insight
- a person realising or solving something
- A form of creative thinking

### What makes an Aha! Moment?

- Four main characteristics:
  - Suddenness
  - Ease
  - Positive effect
  - Confident perception of truth



# The Element of Surprise

- What is surprise?
- Personal expectations
- Isaac Newton and the apple



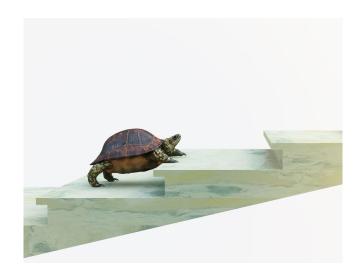
### The Struggle Ahead of the Moment

- Positive effects of struggle
- Negative effects of struggle
- The "Eh, fuck it!" Moment
- A learner's struggle
- Progress versus momentum



# The Reality of the Aha! Moment

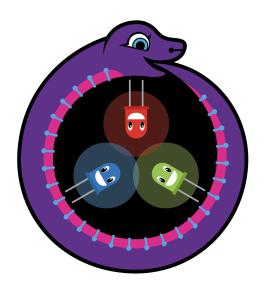
- Patience required
- Happens organically
- Not for everyone
- Always a different moment



# Real Aha! Moments

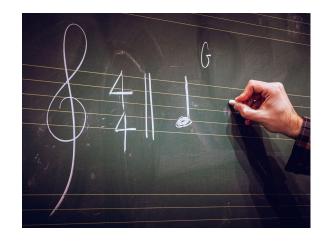
# My Aha! Moment

- Python programming
- Tried and failed to learn
- Ended up with a microcontroller
- Made an LED blink using Python
- Found clarity and a connection



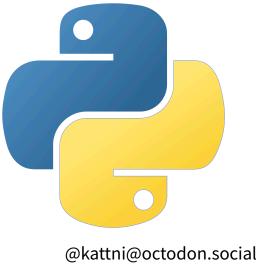
# Tammy's Aha! Moment

- Music theory
- The rules felt arbitrary and illogical
- Explanation of one part
- Started to see patterns
- It made sense and became fun



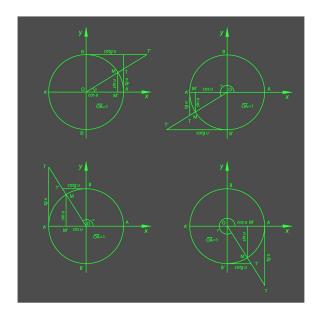
### **Alec's Aha! Moment**

- Python programming
- Interacting with certain objects and not others
- Found dunder (or "magic") methods
- System behind the scenes
- Uses this functionality regularly



### **Tod's Aha! Moment**

- Trigonometry
- sine and cosine
- An animated diagram
- Able to use them automatically
- Still helps to this day



### John's Aha! Moment

- Programming
- Learned as a kid
- Career in animation
- Made it exciting and relevant
- Able to apply to other concepts

# Finding an Aha! Moment

# **Cultivating the Aha! Moment**

- Recognise your strengths
- Conducive environment
- Validate, ask, listen
- Appropriate guidance
- Maintain self-awareness



### Increase the Potential for an Aha! Moment

- Take a break
- Let your mind wander
- Boost your mood
- Get some sleep
- Experience new things



# Following the Aha! Moment

- Sense of clarity
- Focus on the positive
- Be open to change
- Use the momentum
- Revisit your successes



# **Not Finding Your Aha! Moment**

- "This will never happen to me."
- May not happen
- All journeys differ
- Stay open to it
- Celebrate your successes



### References

#### References available on GitHub:

https://github.com/kattni/PyCon2023/tree/main/Education Summit Talk Content/
The Importance of the Aha Moment References.md

#### More information:

- <a href="https://en.wikipedia.org/wiki/Eureka\_effect">https://en.wikipedia.org/wiki/Eureka\_effect</a> (at your own risk)
- https://www.scientificamerican.com/article/the-aha-moment/ (requires a free account)

# **To My Contributors**

To Bruce: Thank you for help putting this all together.

To Tammy, Tod, Alec and John: Thank you for contributing your Aha! Moments to my talk.

# Thank you for attending!

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