

Talk-driven development

Teaching can be a superpower in software engineering



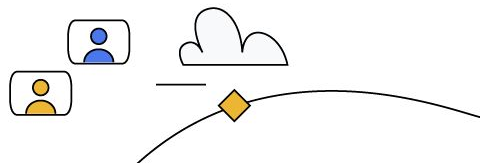
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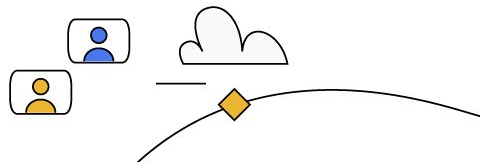
Agenda

- Talk Driven Development
- Protege Effect
- Cascading Mentorship Model
- Rubber Duck
- SODOTO
- Luck Surface Area
- Build In Public
- Sharing at a sustainable pace
- Digital Garden
- Concluding Remarks



Talk Driven Development

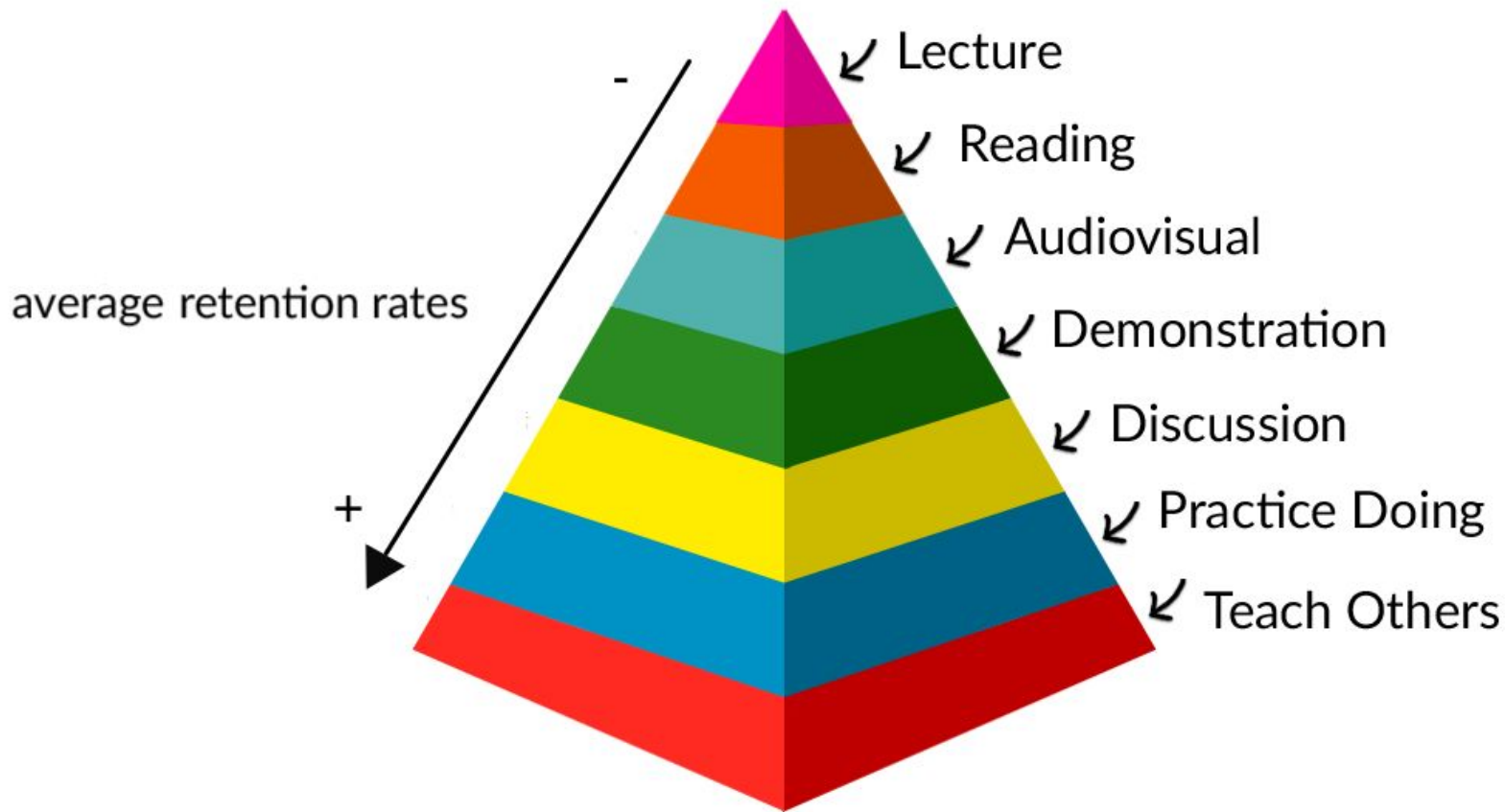
- Committing to speaking on a particular topic can lead to a developer learning something new in the process of experimenting with new technologies in preparation for a presentation
- Teaching brings superpowers that span beyond software development



The Protégé Effect



A concept in learning that suggests we learn more effectively by teaching information to others, even if those others aren't necessarily any less knowledgeable.





WAYS TO BENEFIT FROM THE EFFECT

Prepare to Teach It

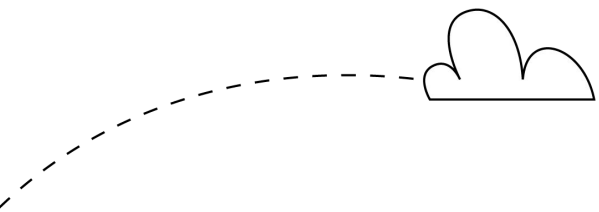
Organize the information, answer potential questions

Pretend to Teach It

Go through the content out loud, as if you are teaching

Teach It!

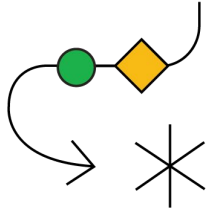
The greatest benefits of the Protégé Effect are experienced by those who actually carry out a lesson



“When one teaches, two learn”

Robert Heinlein



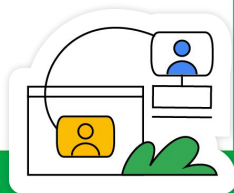


**“Teaching isn’t just for the
person receiving the lesson.
It’s for you too”**

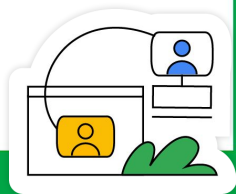
you

Memory & Cognition study - 2014

Expectation that one will need to teach can enhance one's learning and organization of knowledge.



**“Best times to start teaching
something is shortly after learning it”**



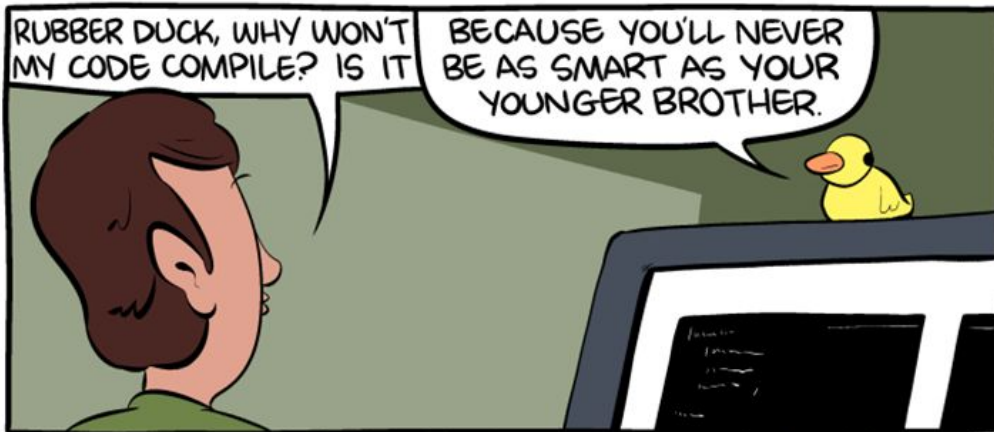
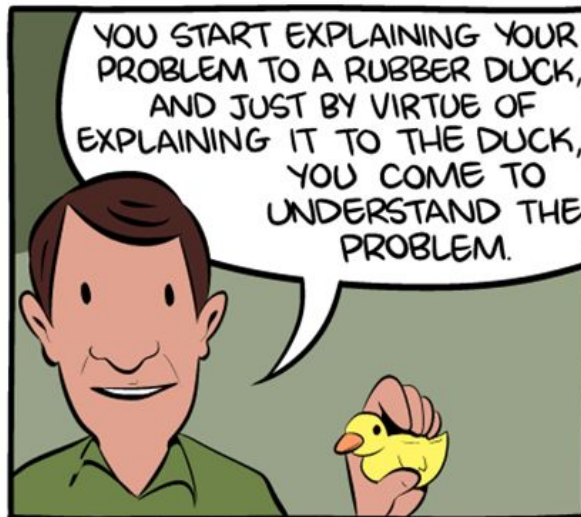
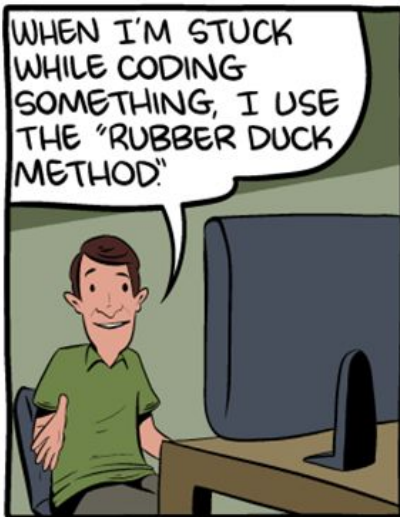


Cascading Mentorship Model

- Another form of teaching that utilizes the benefits of the protégé effect, while adding new benefits.
- Each student is providing mentorship to someone less experienced than them, and same goes for that person, and so on and so forth

- Everyone – even the most junior person – is involved in an active, peer-led exercise that empowers people on every level of experience to understand their own area of practice more deeply.
- They are also encouraged to practice their coaching skills, while also analyzing the coaching they receive in order to improve their own skills.



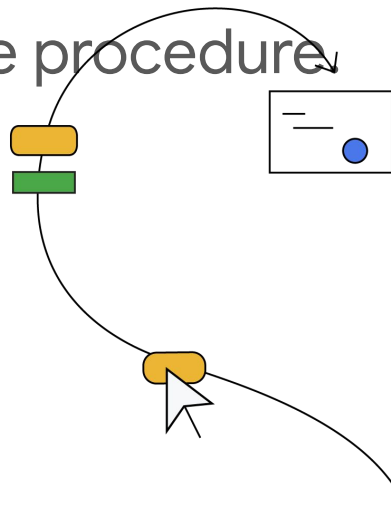


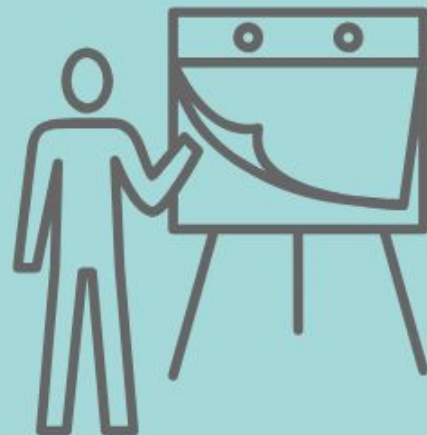
SODOTO

See one — See a procedure and observe how it's done.

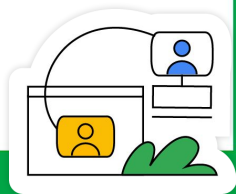
Do one — Do the procedure and practice it.

Teach one — Teach someone else how to do the procedure





“Publishing your work increases your luck”

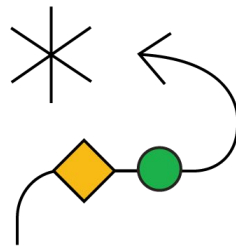


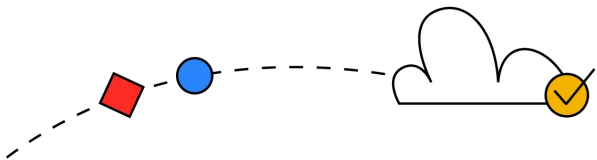
How can we increase the odds of finding luck?

- Luck is when something unexpected and good happens to you. *Unexpected and good.* Who doesn't want to increase the odds of something unexpected and good?
- By being a person who works in public. By doing work and being public about it, you build a reputation for yourself.
- You build a track record. You build a public body of work that speaks on your behalf better than any resume ever could.

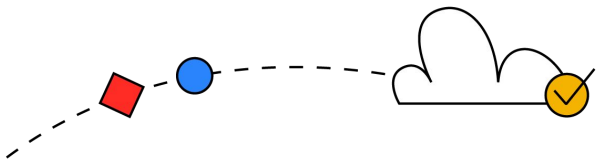
“Luck Surface Area”

– Jason Roberts





“The amount of serendipity that will occur in your life, your Luck Surface Area, is directly proportional to the degree to which you do something you’re passionate about combined with the total number of people to whom this is effectively communicated.”



Start Doing, Amplify with Telling!

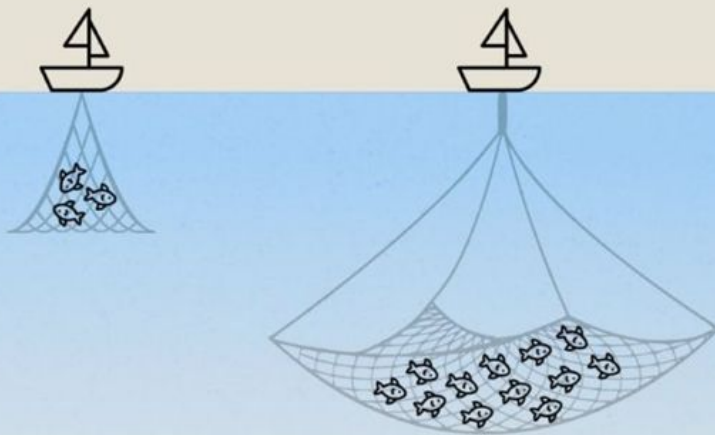
The goal is not to become famous, the goal is to increase the chances of luck finding us!

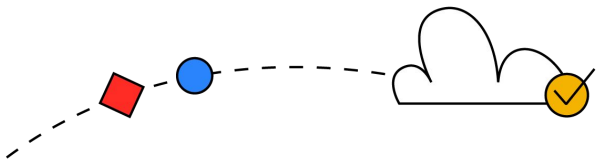
**Luck = (Passionate) Doing x (Effective)
Telling.**

The more things you do multiplied by the more people you tell, the larger your Luck Surface Area becomes.

The larger your Luck Surface Area, the more likely you are to catch luck as it flows by!

The Luck Razor: When choosing
b/w two paths, choose the path
that has a larger luck surface area.

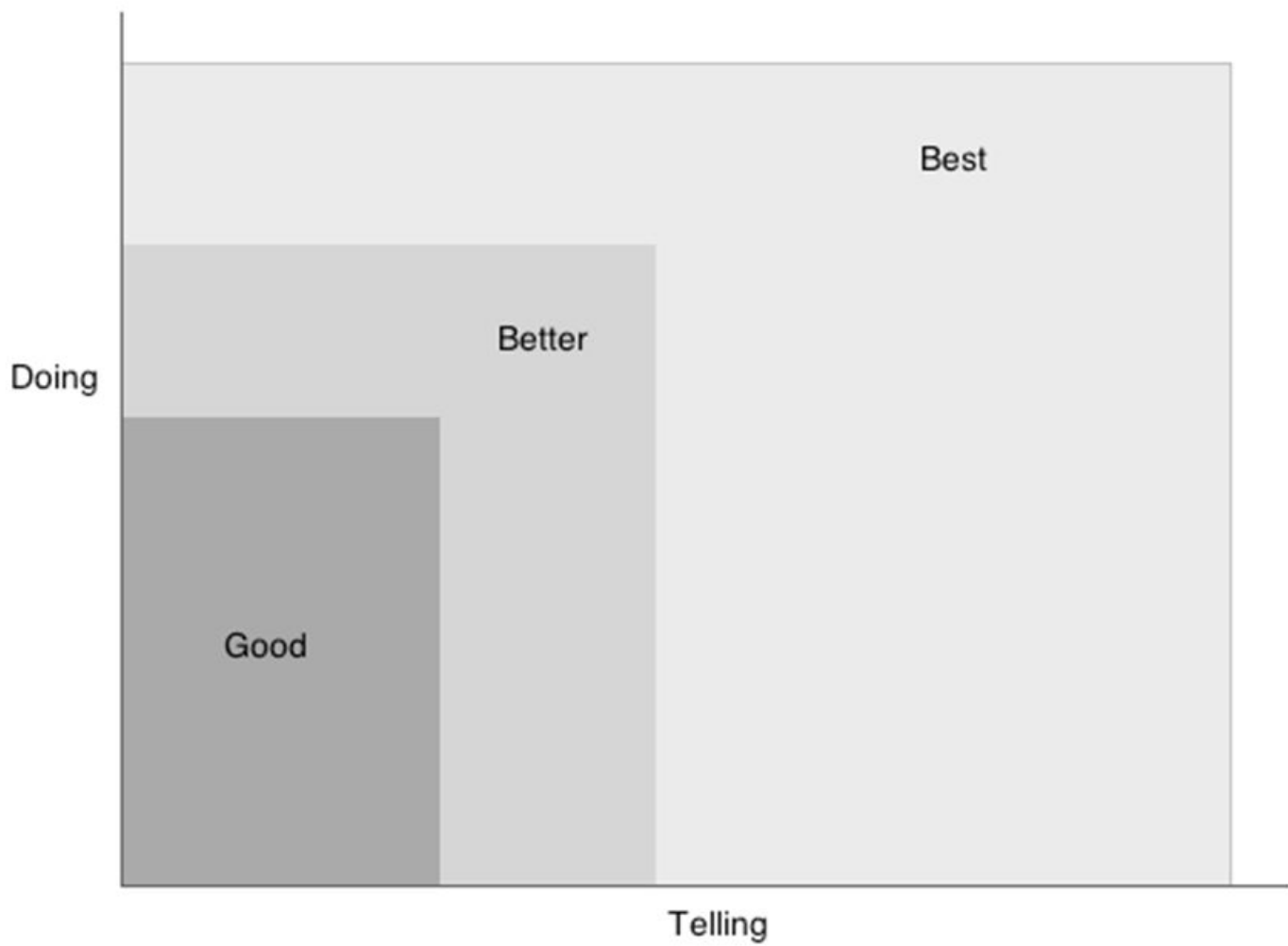




Which one are you?

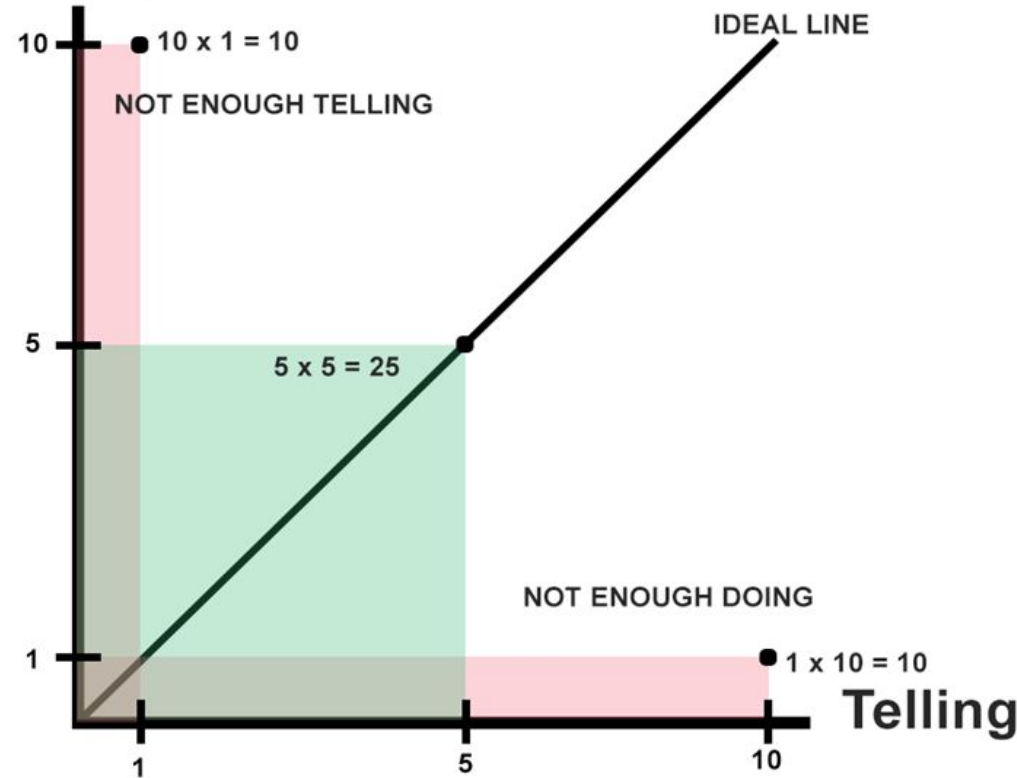
1. You actually are doing things, you've just trained yourself to think that anything you do isn't worth sharing.
2. You want to be doing things, but you can't bring yourself to get started.

- When people become aware of your expertise, some percentage of them will take action to capture that value, but quite often it will be in a way you would never have predicted.”
- The infectious nature of passion, and that taking action and sharing your passion will tend to attract others towards it, again amplified by the number of people who know about it.

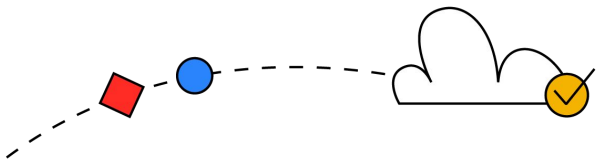


Luck Surface Area

Doing

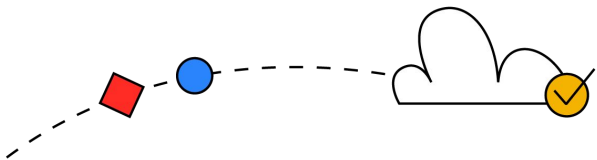


“The law of averages : The relative frequency of an event should correspond to its probability. For example, if the probability of heads in a fair coin toss is 50%, then according to the law of averages, the proportion of heads in a series of tosses should be close to 50%”



Tina Seelig, Stanford professor and the creator of Framestorming, has been studying entrepreneurs and luck for some time.

Her reframing of how to view luck aligns well with this model.

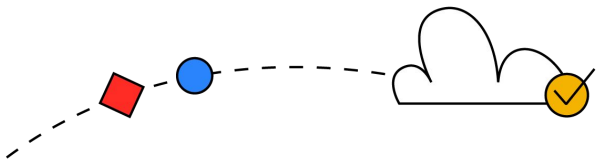


“Luck is rarely a lightning strike, isolated and dramatic. It’s much more like the wind, blowing constantly. Sometimes it’s calm, and sometimes it blows in gusts. And sometimes it comes from directions that you didn’t even imagine.”

Whatever you're excited about, be excited about it publicly.

Blogging, podcasting, commenting in online discussions, and following up with every customer and user, you increase the likelihood of having a serendipitous moment.

It's a fun concept to consider – but perhaps less of a scientific occurrence than the Law of Averages.

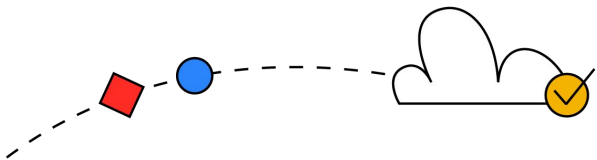


“Engage with people from a place of care and generosity rather than focusing on selling or personal gain. Connecting with the right platforms and communities who might be interested in what you’re doing and are passionate about.”

Share Your Learnings at a Sustainable Pace

[Atomic Habits](#) by James Clear states, over time, it's generally more impactful to make small, consistent progress towards an identity-based goal (like being someone who runs regularly) than inconsistently focusing on one huge goal (like running a marathon)

Teaching reveals gaps in our knowledge. When we're aware of those gaps, we become more humble, and we ask more question



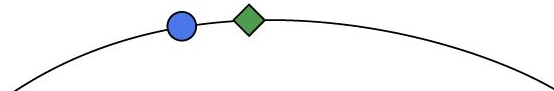
“The person who says he knows what he thinks but cannot express it usually does not know what he thinks.”

— Mortimer Adler

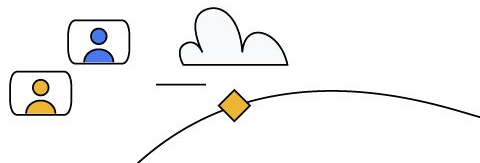
Process, Care, and Craft

Digital gardening : embrace the idea that the process of documenting is more important than the final presentation

Share seeds of thoughts to be cultivated in public



TEACHING
♥ IS MY ♥
SUPER
POWER



What's your superpower?



References

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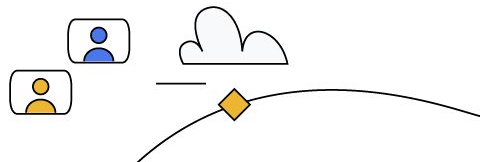
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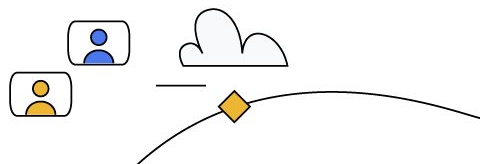
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