

CONTINUOUS LEARNING: HOW TO KEEP UP WITH PROGRESS

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- » Google Cloud Certified Architect
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- » Plays Guitar
- » Speaks 3,5 non-programming languages

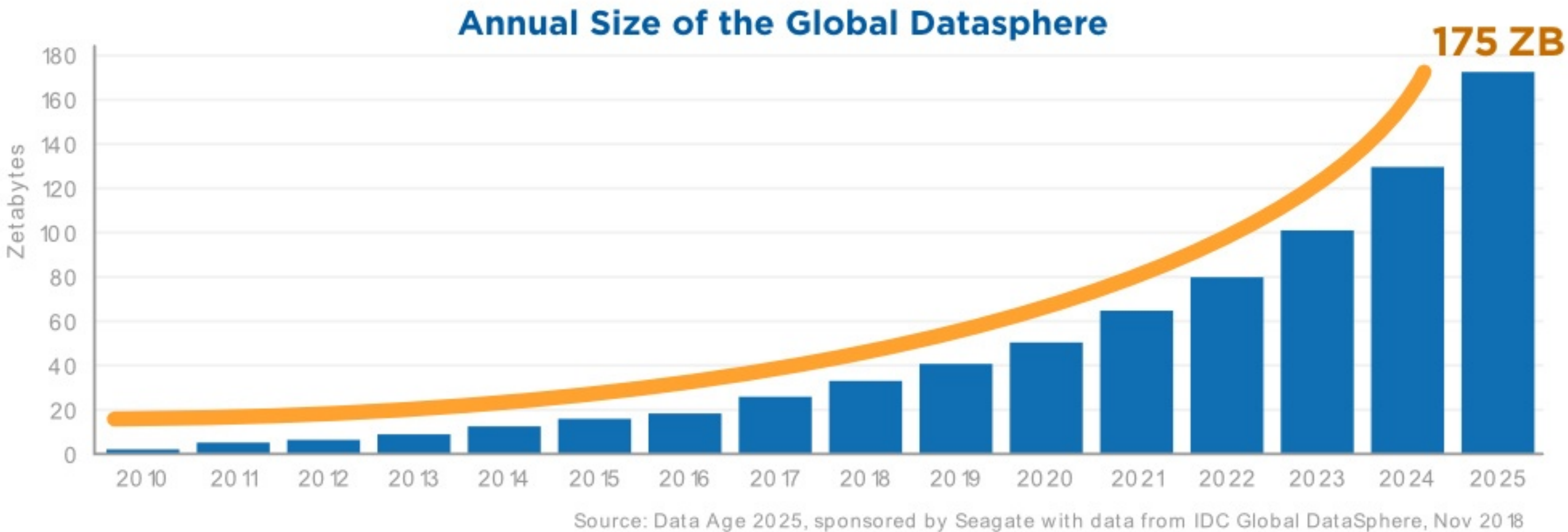


**“HOW DO YOU
MOTIVATE YOURSELF
TO LEARN? YOU DON'T,
STAY IN SHIT.”**

One famous Russian designer

QUICK LOOK AROUND

Figure 1– Annual Size of the Global Datasphere



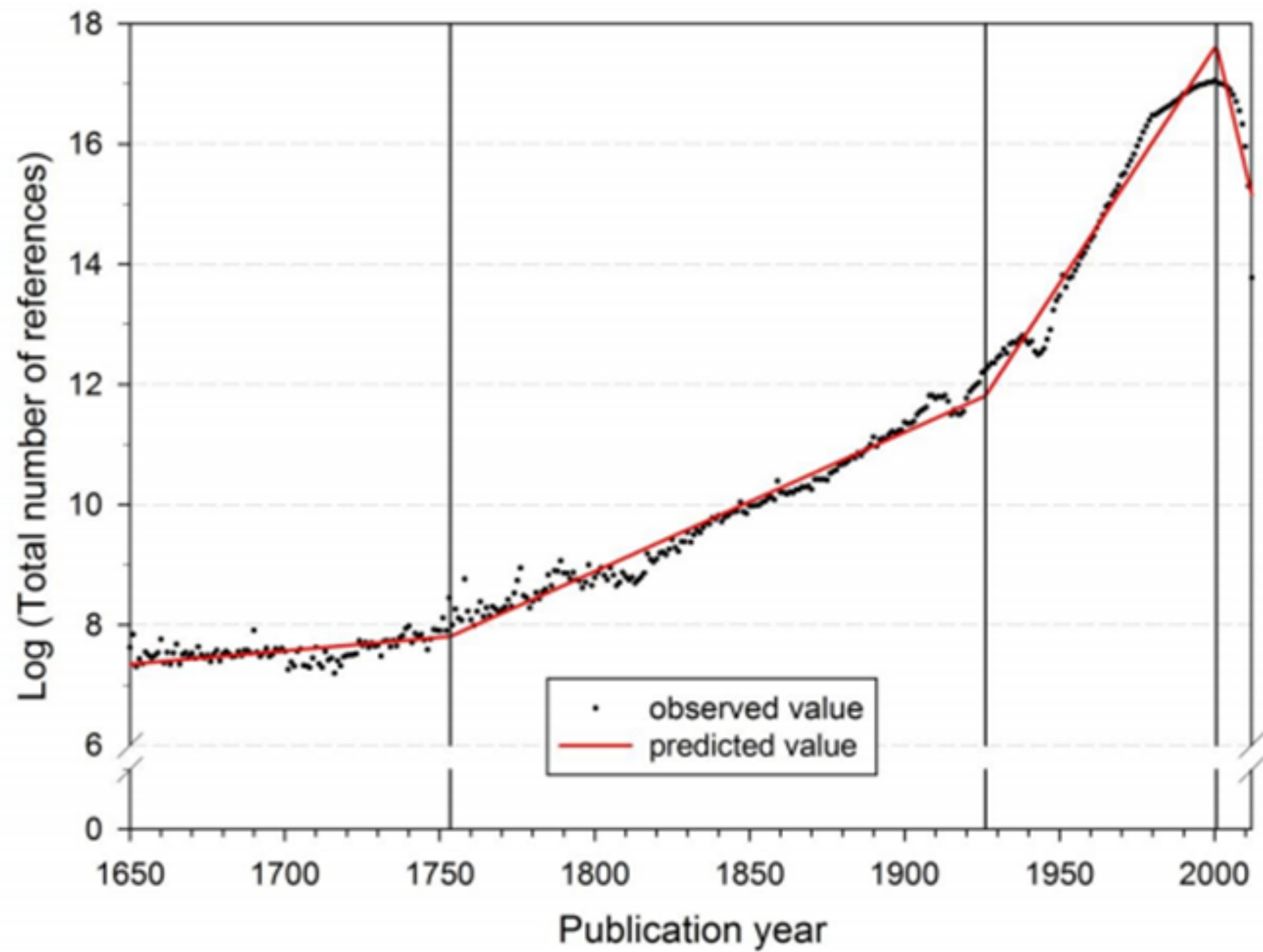


Figure 2. Segmented growth of the annual number of cited references from 1650 to 2012 (citing publications from 1980 to 2012)

**WE KNOW MORE AS A SPECIES EVERYDAY.
EXPONENTIALLY.**

88% of the U.S. workers feel they need more training⁰

⁰ <https://www.spherion.com/ugc/documents/Spherion2018Executive-Summary.pdf>

IF YOU DON'T LEARN, YOU KNOW LESS COMPARED TO THE ONES WHO DO.



YOUTUBE VIDEO

ME

**COURSERA
VIDEO**

BUT YOU SHOULD CARE ABOUT LEARNING

ARE YOU SATISFIED WITH YOUR COMPENSATION(SALARY, BONUSES, PERKS, ETC)?

YOUR COMPENSATION DEPENDS ON 3 THINGS

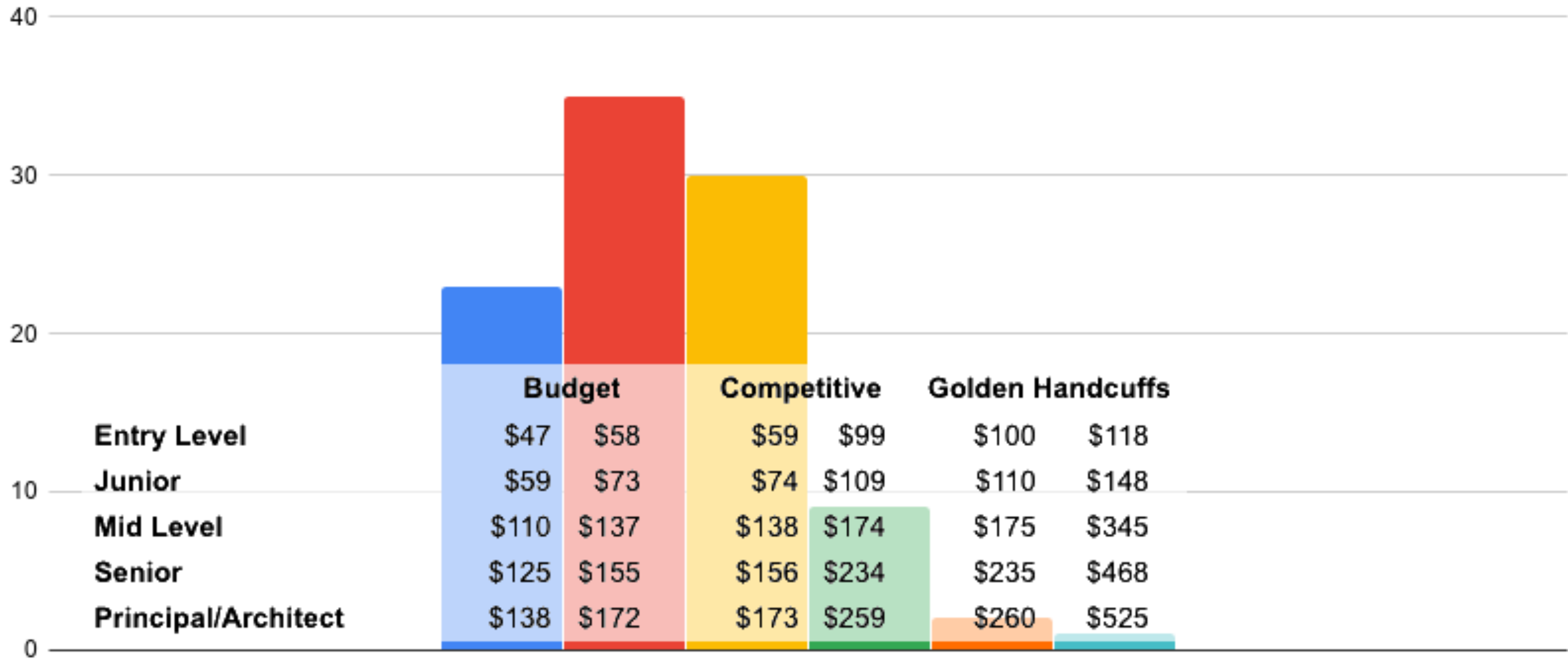
3 THINGS IMPACTING YOUR COMPENSATION¹

- » Knowledge and skills
- » Problems to be solved
- » Responsibility

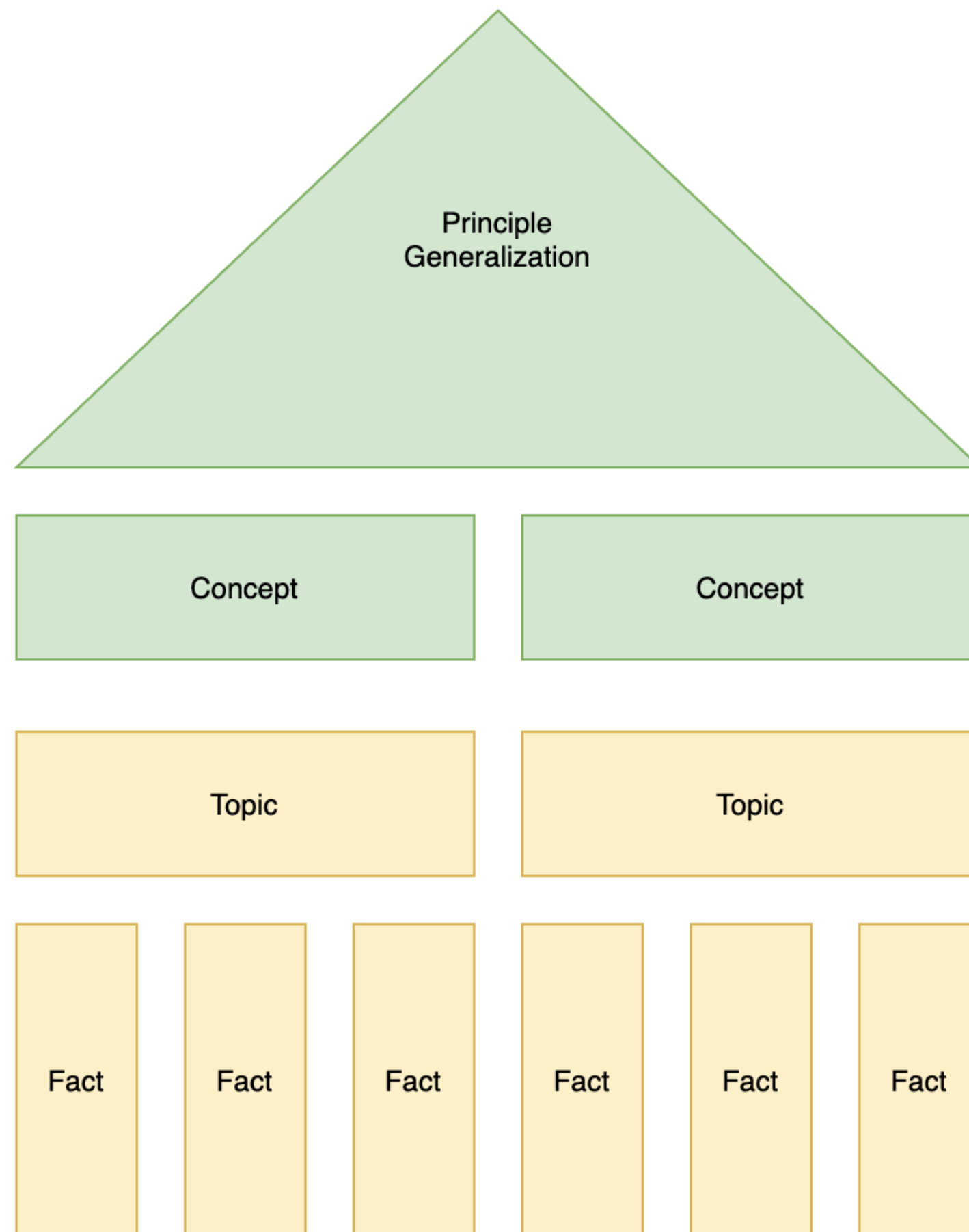
¹ Korn Ferry

KNOWLEDGE AND SKILLS

KNOWLEDGE AND SKILLS



HOW DO YOU LEARN



**YOU TRY TO LEARN
SOMETHING NEW...**

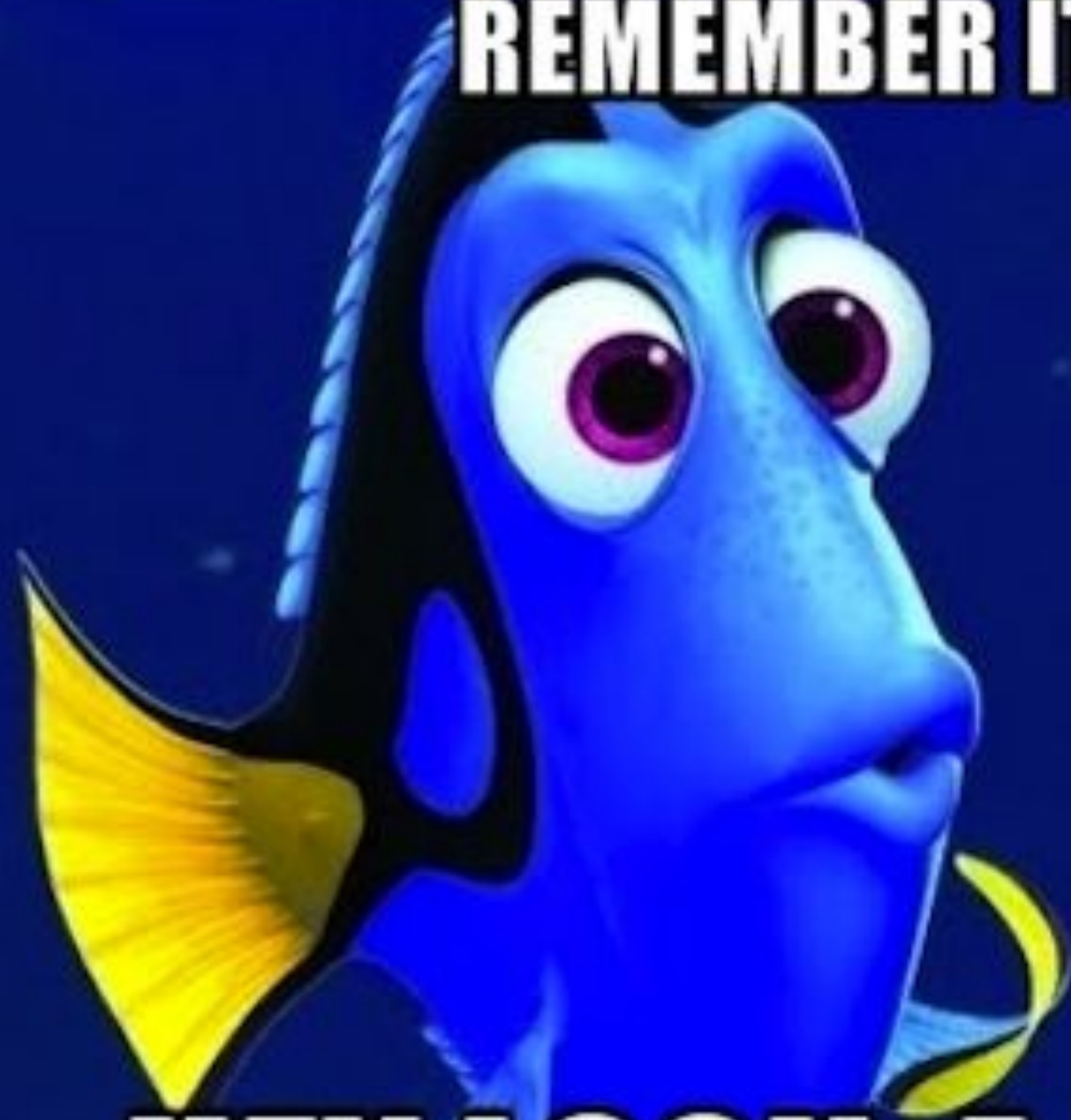
MEMORY TYPES

» Sensory memory

» Short term

» Long term

**I'LL EMAIL THIS TO MYSELF SO I CAN
REMEMBER IT**



**HEY LOOK, A NEW
EMAIL!**

SHORT TERM MEMORY(WORKING)

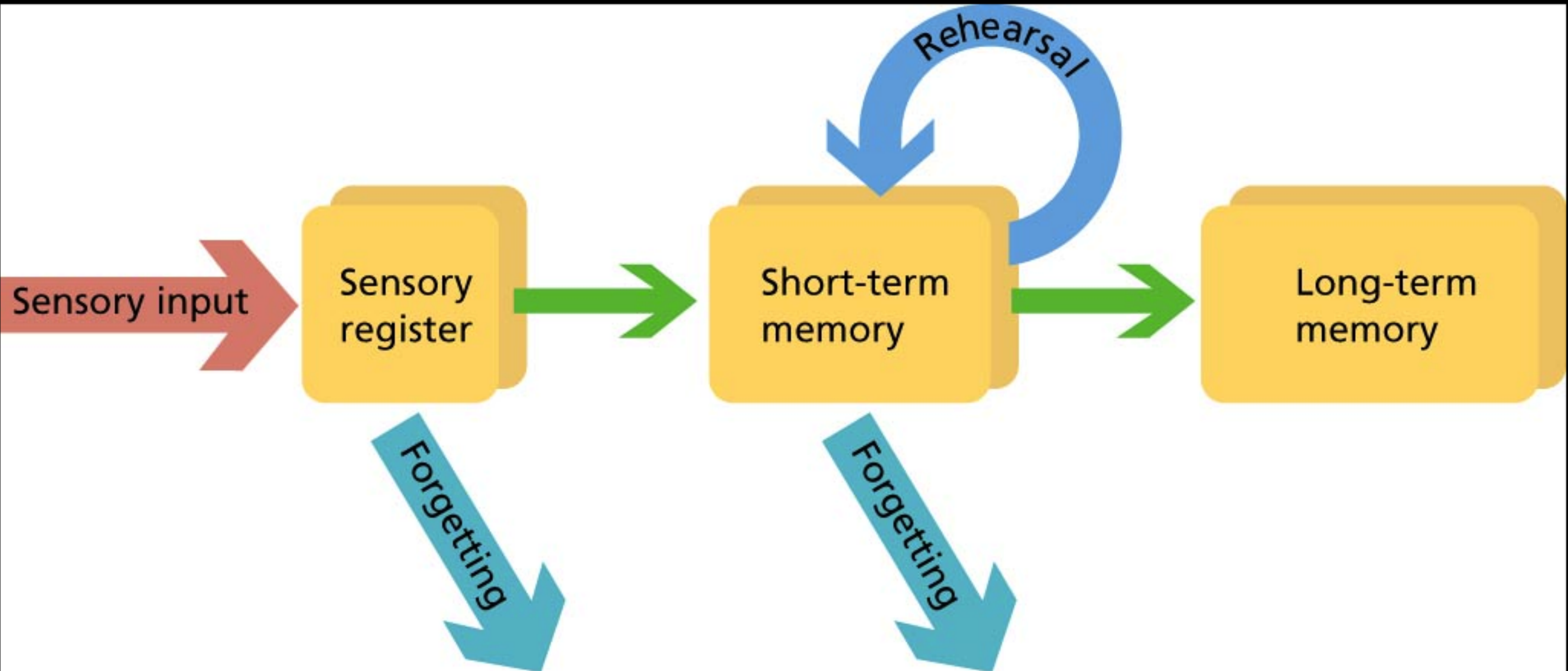
- » Small capacity
- » Small period of time

**WHAT IS THE MAXIMUM
RECOMMENDED
NUMBER OF FUNCTION
ARGUMENTS?**



7+2

2-30 SECONDS



REMEMBER THE LAST TIME YOUR WERE LEARNING SOMETHING NEW.

WHAT WAS A MORE EFFICIENT WAY TO LEARN ANYTHING?

**YOU NEED TO
UNDERSTAND
SOMETHING TO
PROPERLY STORE IT.**

CHUNKS

CHUNKS

- » Chunk is a concise small meaningful piece of information
- » The most effective way of storing information.

CHUNKS

- » Couple of words of a foreign language
- » Small idea

**HOW MANY ITEMS FIT
IN A SHORT TERM
MEMORY?**

LONG-TERM MEMORY

- » minutes to decades
- » Encodes with semantic or visual

LONG-TERM MEMORY TYPES²

- » Procedural
- » Semantic(declarative)
- » Episodic(declarative)

² <https://www.simplypsychology.org/long-term-memory.html>

**IN ORDER TO LEARN
ANYTHING YOU NEED TO
TRANSFER A CHUNK
FROM SHORT TERM
MEMORY TO A LONG
TERM.**

LEARNING ISSUES

» Hard to start learning

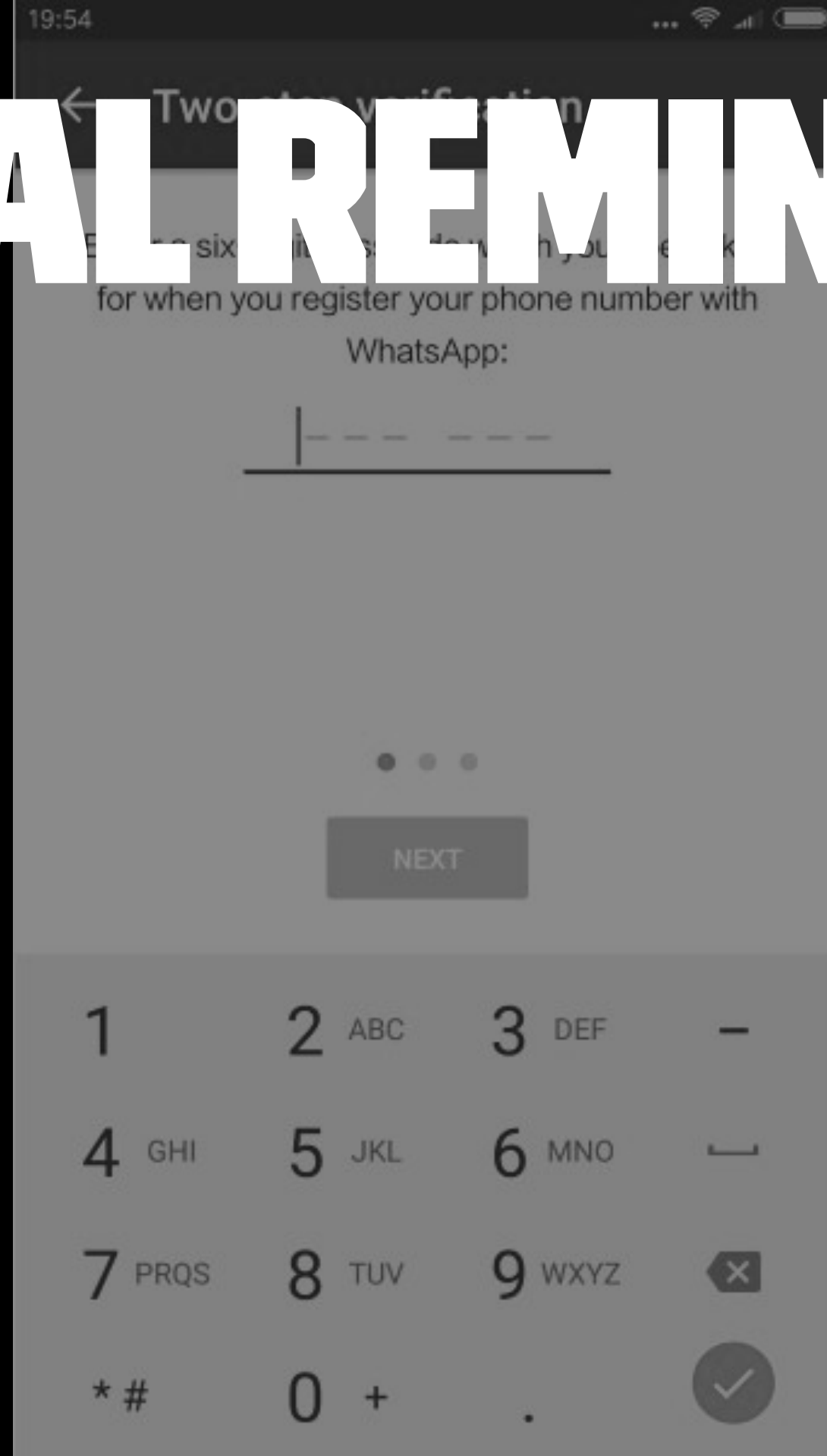
» Hard to remember

**LEARNING IS HARD
BECAUSE IT'S LITERALLY
A PAIN TO BRAIN**

PROCRASTINATION

AVOIDING PROCRASTINATION: POMODORO

INTERVAL REMINDERS.



SLEEP

HOW TO LEARN ANYTHING IN 4 EASY STEPS

- » Break the topic down in chunks
- » Schedule learning sessions periodically
- » Practice a topic several times using increasing intervals
- » Sleep well

WAYS OF HOW WE CAN LEARN

- » Universities
- » During the work
- » Mentoring programs
- » Online programs
- » Professional certifications

UNIVERSITIES

- » Old fashioned(at least in Russia)
- » Government-regulated thus non-efficient
- » Not tailored according to the market realities
- » Force you to pick the specialty right away
- » Force you to invest 4 to 6 years
- » Systemic

DURING THE WORK

DURING THE WORK

- » Solving issues
- » New project with new tech
- » During mentoring others

DURING THE WORK

- » Real life problems
- » May provide deep insights into technologies
- » No system whatsoever

MENTORING PROGRAMS

- » Well thought
- » Real life demand
- » Practice
- » Internal recognition
- » Beneficial for mentors as well

ONLINE PROGRAMS

» Start to replace the universities nowadays

PROFESSIONAL CERTIFICATIONS

- » Paid
- » External recognition

QA