

Study skills – KTH

with

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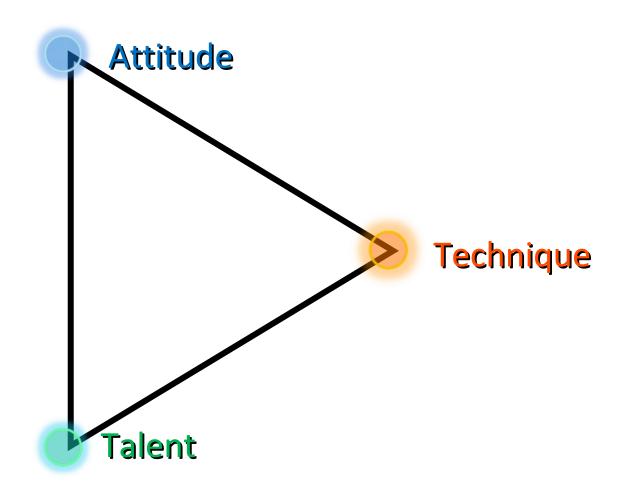
brain**gain**

BrainGain



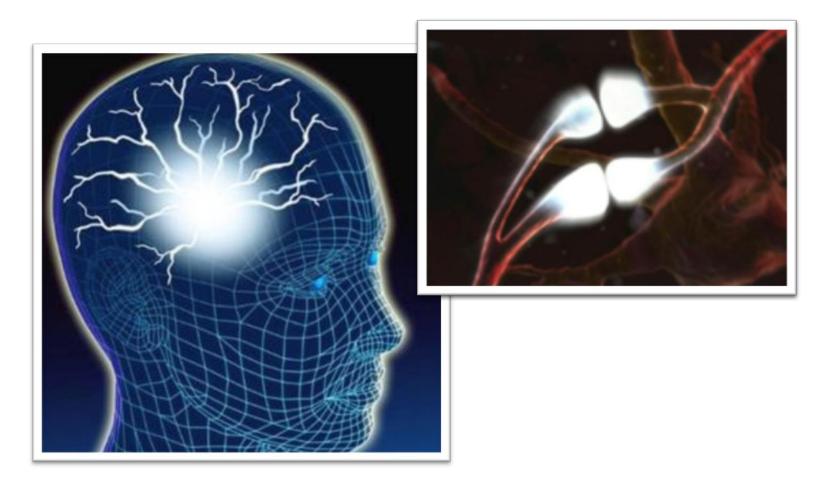


Results = T * A * T



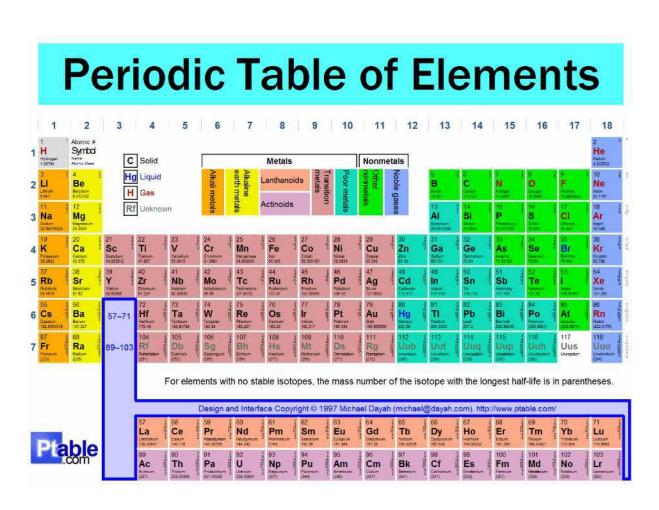


Biology of Learning



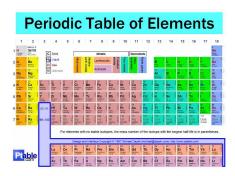


Knowledge as simple facts





Knowledge as facts

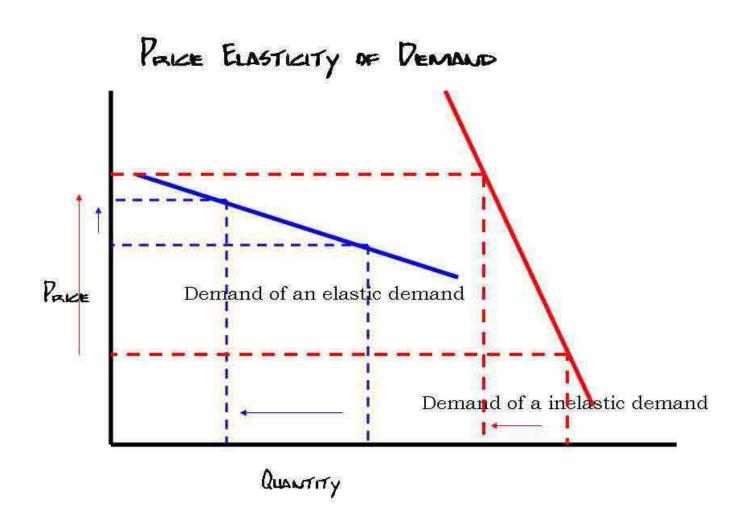


Tool: Mnemonics

Find or create a connection to something you already know. Think about this connection clearly in your mind, in words or pictures, to create a new memory. Concretize and associate!

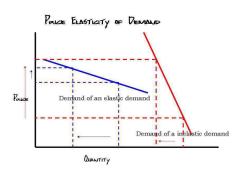


Knowledge as comprehension





Knowledge as comprehension

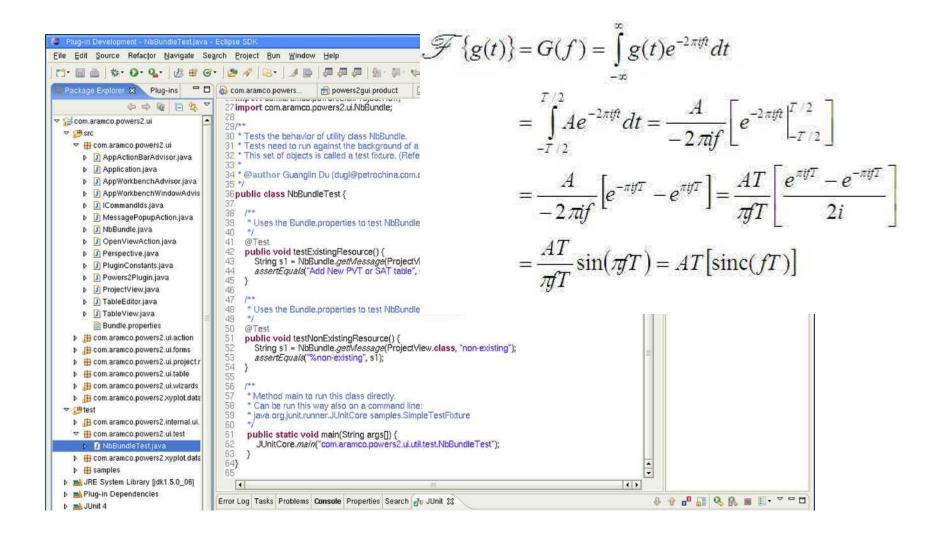


Tool: Explain using own words

Read, listen and ask. Express what you feel you understand, to another person, in writing or in your mind. Abstract and exemplify.

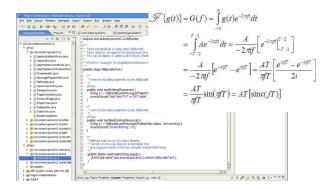


Knowledge as skill



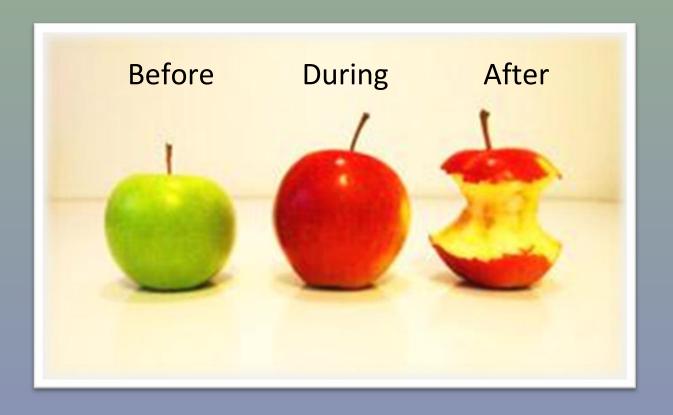


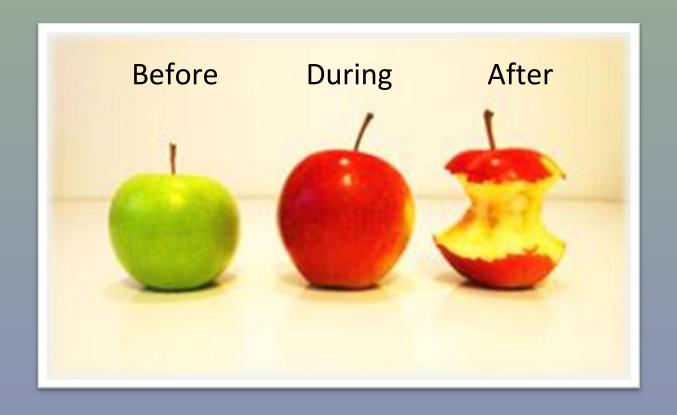
Knowledge as skill



Tools: Recreate, imitate and experiment

Look for ready-made examples in your literature and from teachers. Recreate these to learn the basics. Then do exercises with *appropriate level of difficulty* – the point where it's *possible* to solve the task with a little effort.





Spaced, varied and interleaved learning, applied



PROCRASTINATION

HARD WORK OFTEN PAYS OFF AFTER TIME, BUT LAZINESS ALWAYS PAYS OFF NOW.







Intellectual

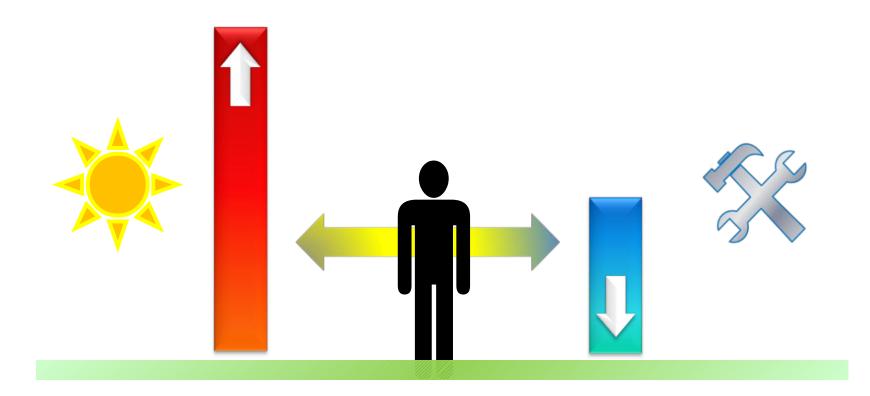
Knowledge Plan "What to do?"

Practical

Place Energy "How to do it?"

Emotional

Attitude Motivation "Why do it?"





Make it ...

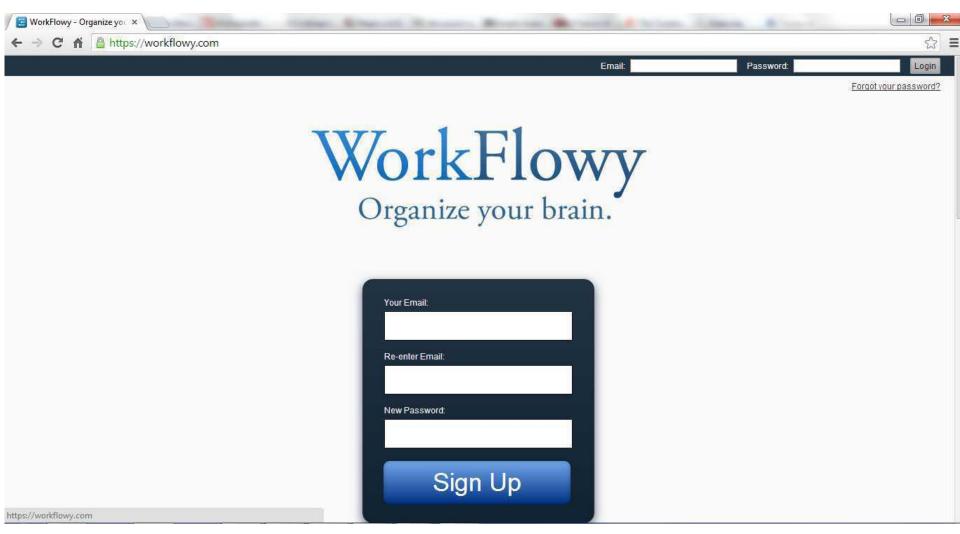
	easy to start	hard to procrastinate
Think	Break it down.	Focus.
Feel	Make it fun.	"Why I am doing this?" Supportive people.
Act	A place. Energy. Tools	Remove distractions.



http://www.focusboosterapp.com



http://workflowy.com



http://freedom.to



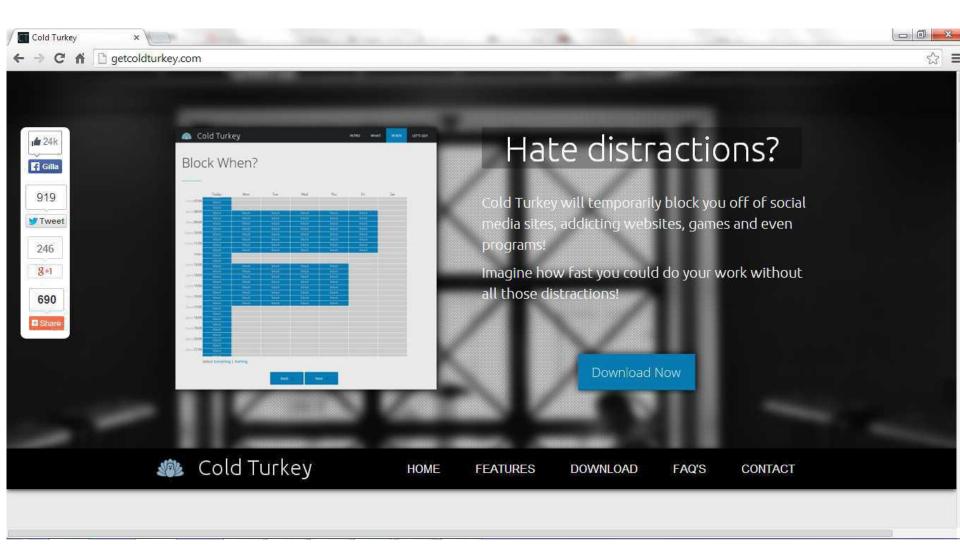
Make technology less distracting

Get started now

Block distractions, be productive, and start accomplishing more.



http://getcoldturkey.com



brain**gain**





Before

Overview

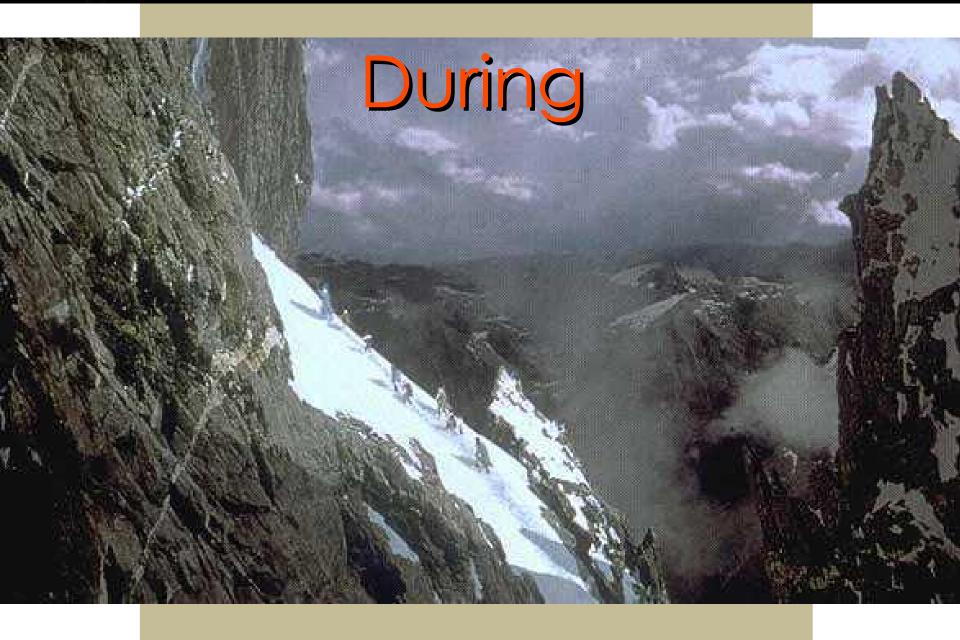
- OLiterature
- Course plan
- Old exams
- OGoogle, wikipedia
- Older students

Plan

- OWhen?
- OWhat?
- OWhere?



brain<mark>gain</mark>

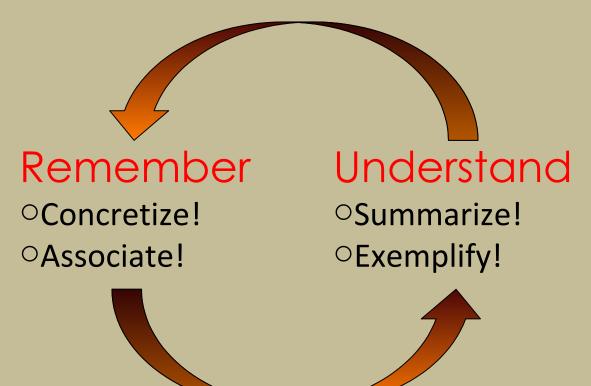




During

Study sessions

Many, short and well defined









After

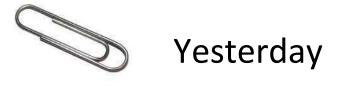


Review the Right Way

- OTest yourself
- OTen minute rule
- Study journal



JOURNAL + THREE BOOKMARKS







One month

- 1. What's the most important thing you learned today? Write it down.
- 2. Test yourself on the contents of each page with a bookmark.
- 3. Move each bookmark forward one day.













Remember Anything

From images to scientific markup, Anki has got you covered.

Remember Anywhere

Review on Windows, Mac, Linux, iOS, Android, and any device with a web browser

Remember Efficiently

Only practice the material that you're about to forget.

About Anki

Anki is a program which makes remembering things easy. Because it's a lot more efficient than traditional study methods, you can either greatly decrease your time spent studying, or greatly increase the amount you learn.

Anyone who needs to remember things in their daily life can benefit from

"No other application, at least on the OS X platform, comes remotely close to Anki in terms of the number and power of features, flexibility

Spaced Repetition

31	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31	1	2	3

- Yesterday
- A week ago
- A month ago

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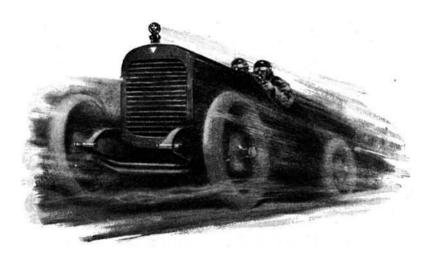
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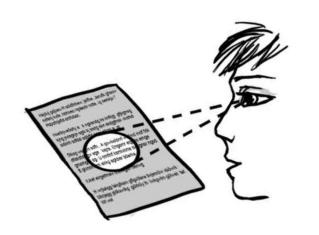


Speed reading for fun and profit





Factors to account for



Eye coordination
Visual range
Concentration
Prior knowledge



Speed = Fixations x Range — Regressions (Words/min = fix/min x word/fix - regr)



Guided reading

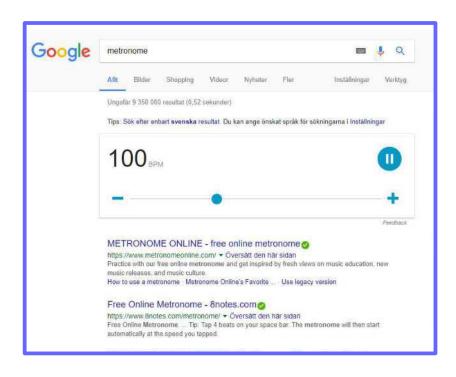
...på en och samma fixering. Testa a
en sida i boken med handen och
bort handen och täcka över sick
mycket hinner du uppfatt
övningen är att under de brå
som dina ögon exponeras för staan,
bara med en enda fixering. Gör om detta några
gånger. Se om du kan upprepa något brottstycke
från sidan - då har du beviset på att du faktiskt
kan läsa flera ord i en fixering



Rhythmic practice



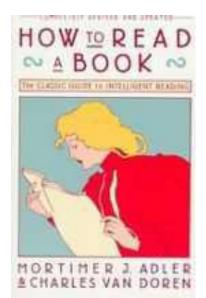






Four levels of reading





- 1. Elementary reading ("the mere text")
- 2. Inspectional reading ("the book as a whole")
- 3. Analytical reading ("the author's mind")
- 4. Syntopical reading ("the whole field")



1. Table of contents

Terminology. Introductions. Guess and extract.
The contour of the book.

2. Disarm the book!

Relax. Turn a page every five seconds. No details. Observe and absorb. The contour of the book.

3. Close reading

20:10:5. What is this text? Why read it? Read through. Summarize and retell. Pause and review.

