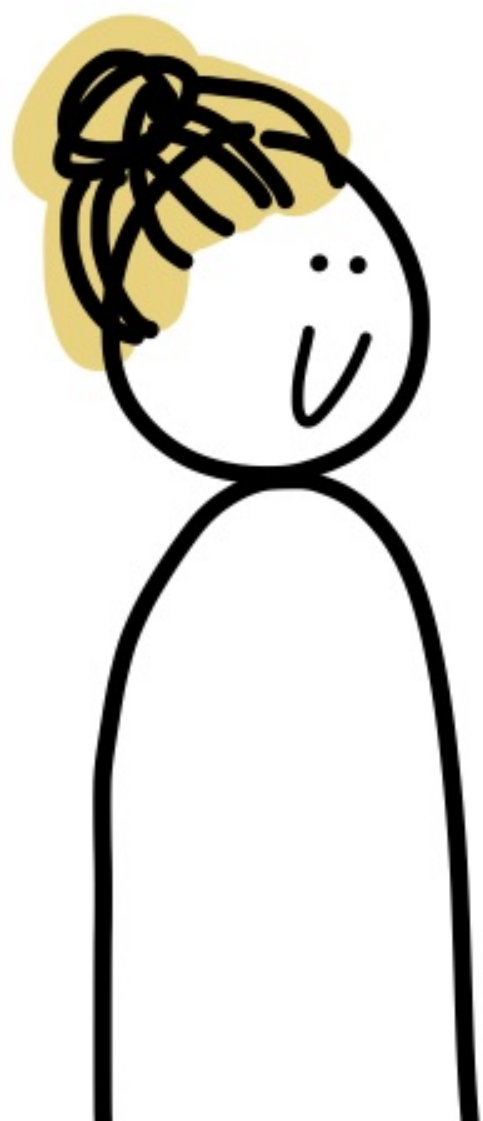


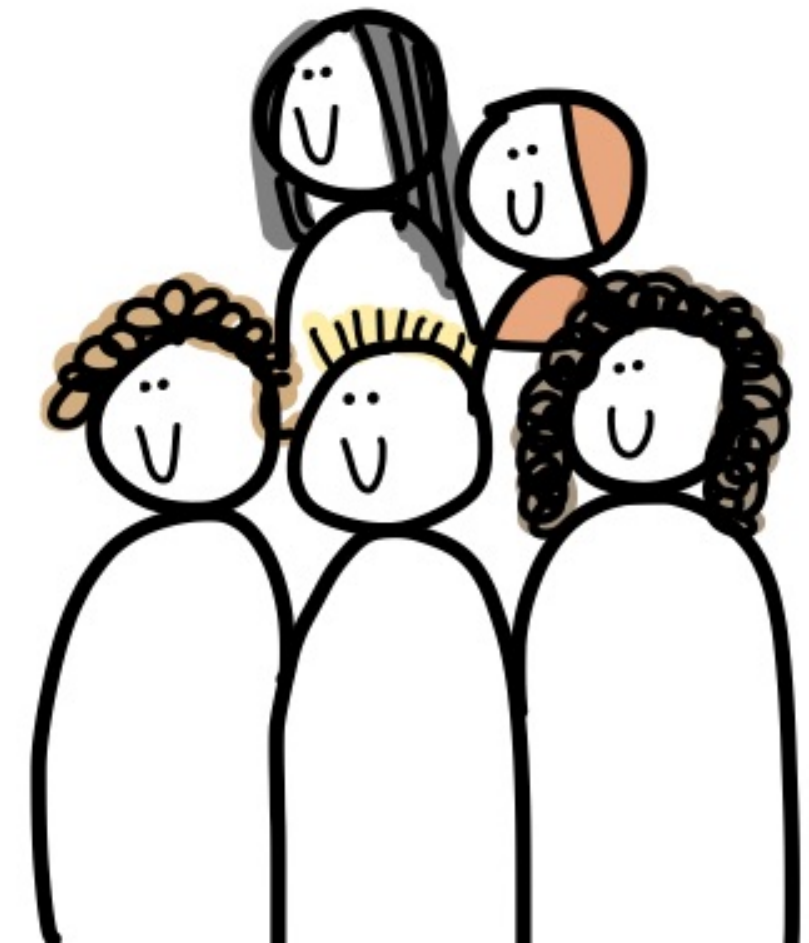
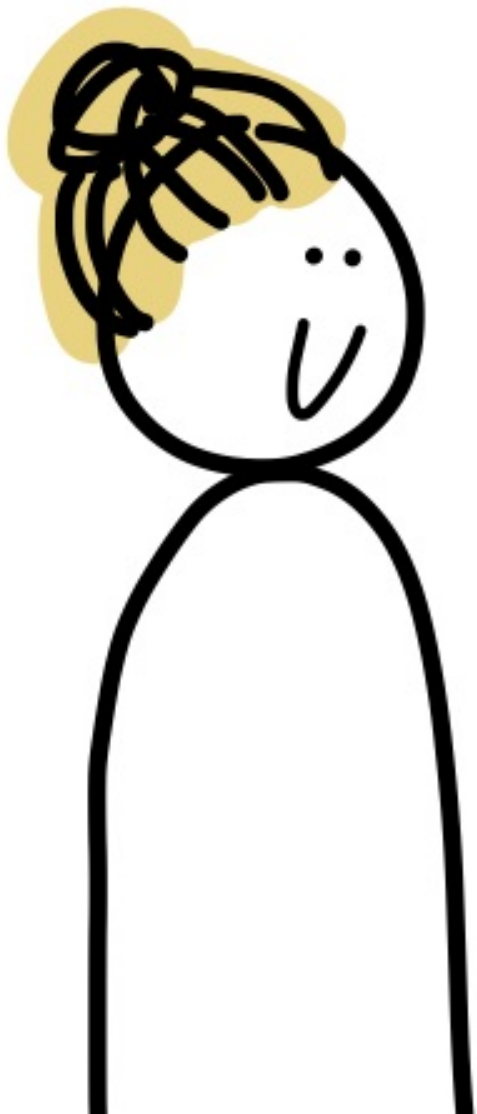
Felienne Hermans



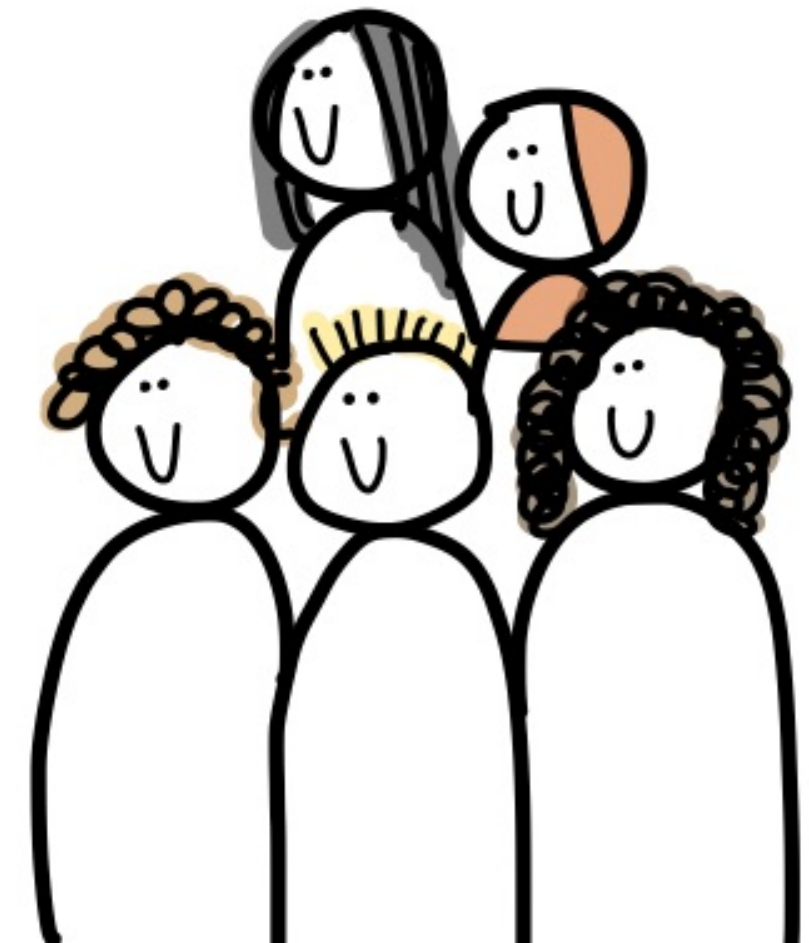
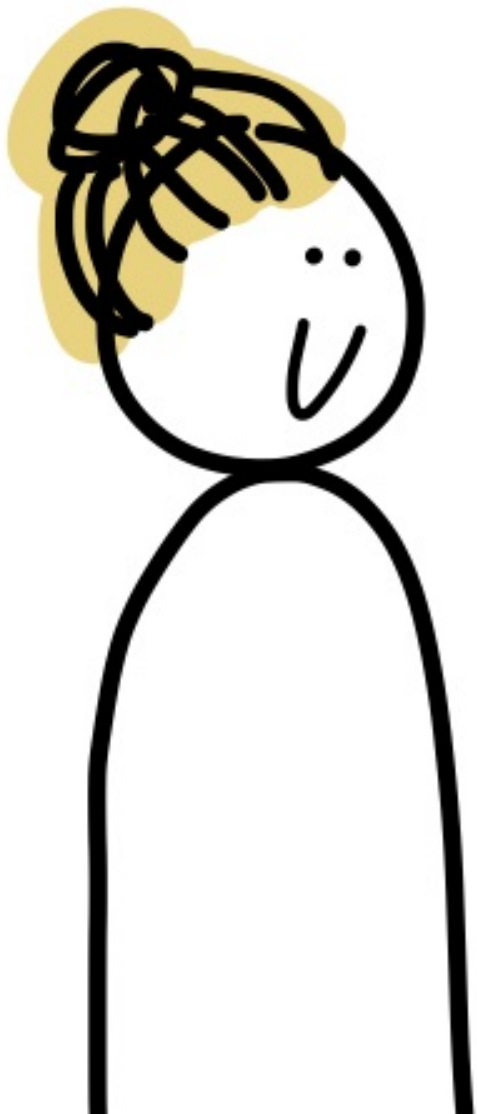
Vrije Universiteit  
Amsterdam

Felienne Hermans

Teacher

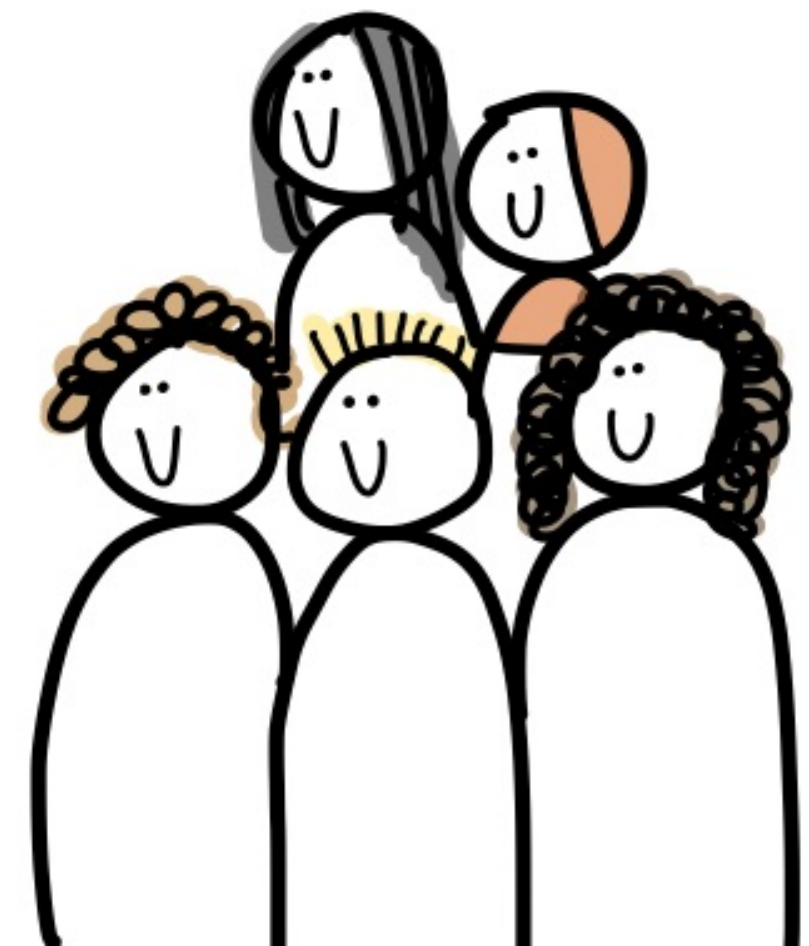


Teacher



"The simple fact is...

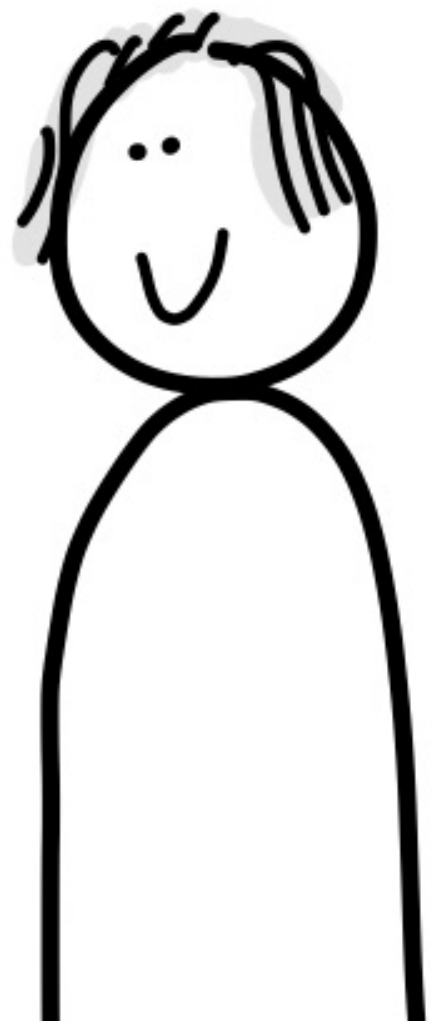
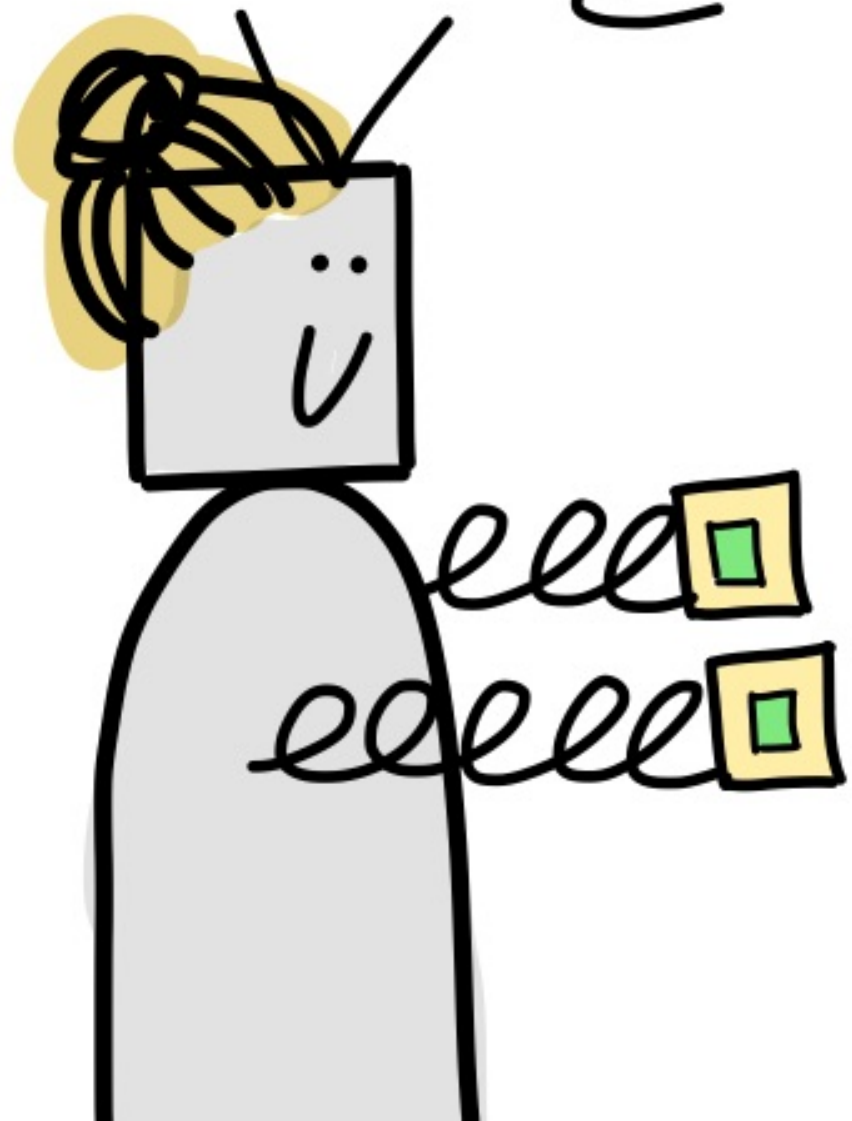
Teachers are out of date")





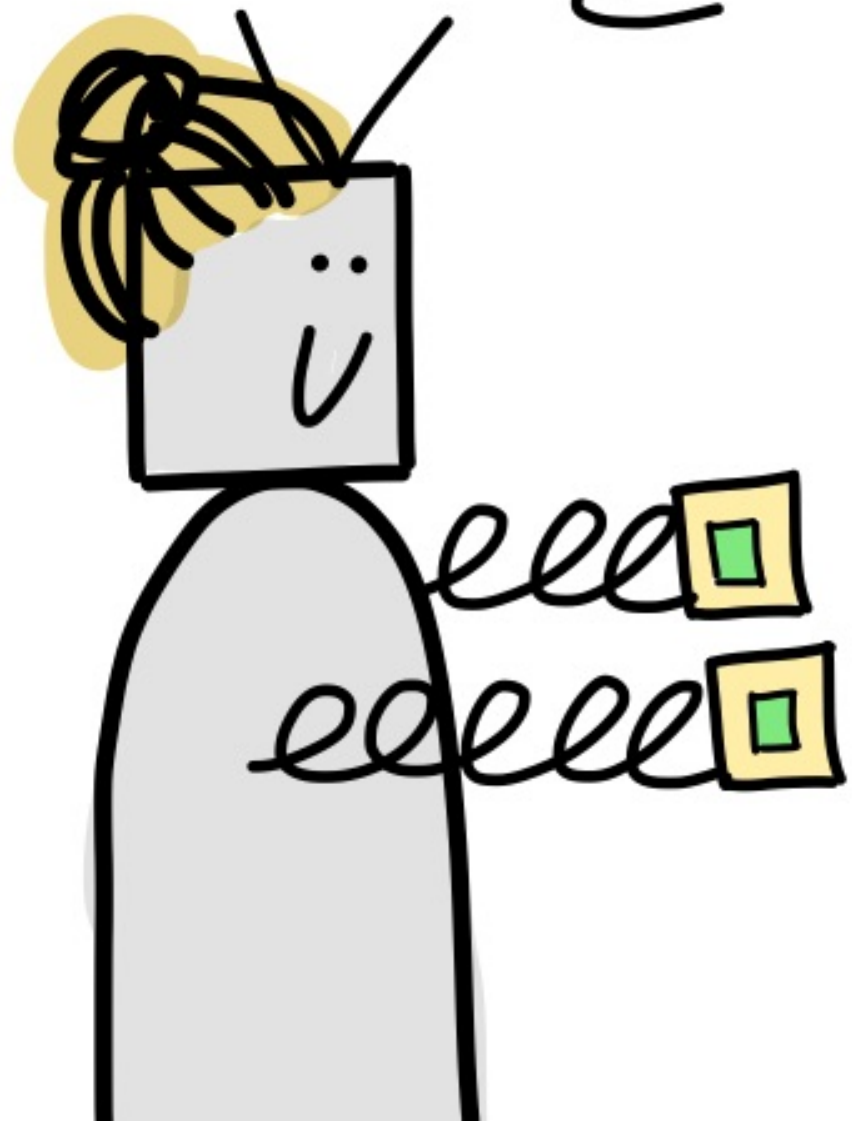
"The simple fact is...

Teachers are out of date"

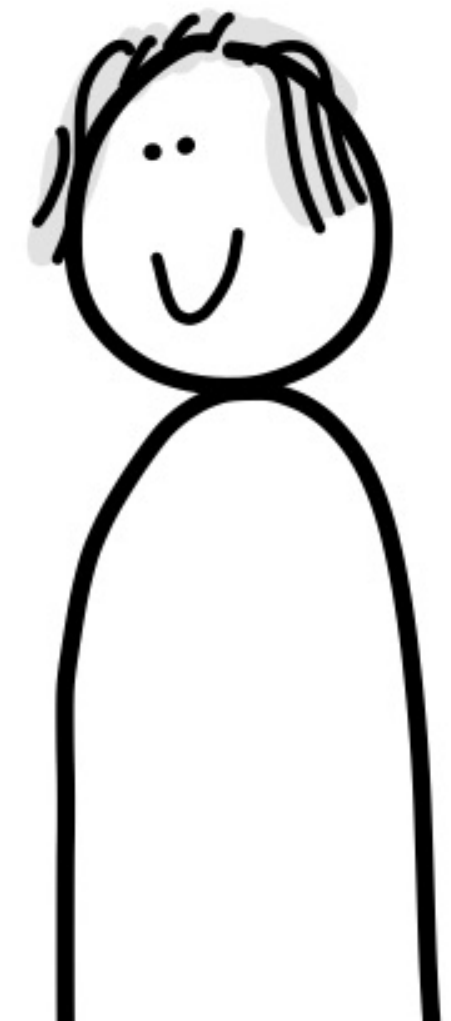


"The simple fact is...

Teachers are out of date"



B.F. Skinner →

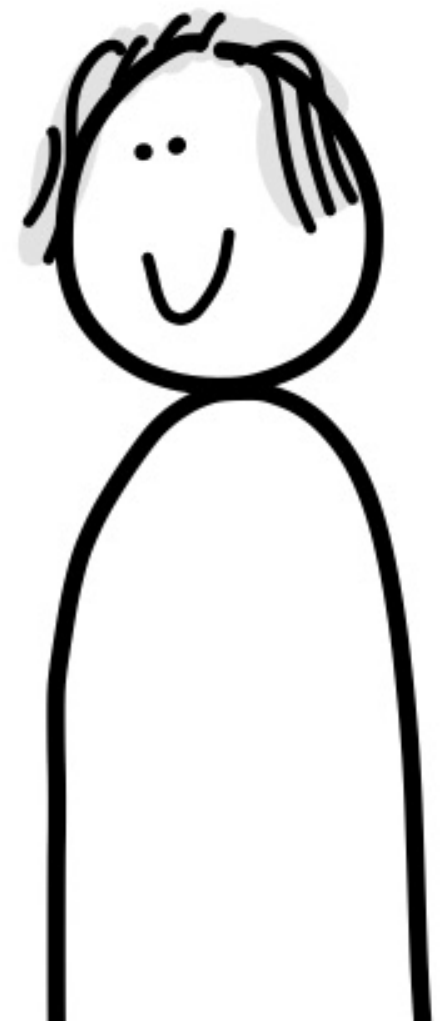
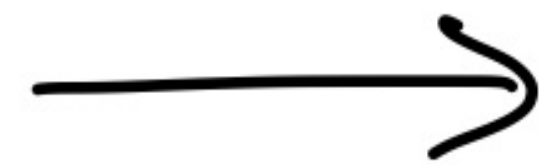


"The simple fact is...

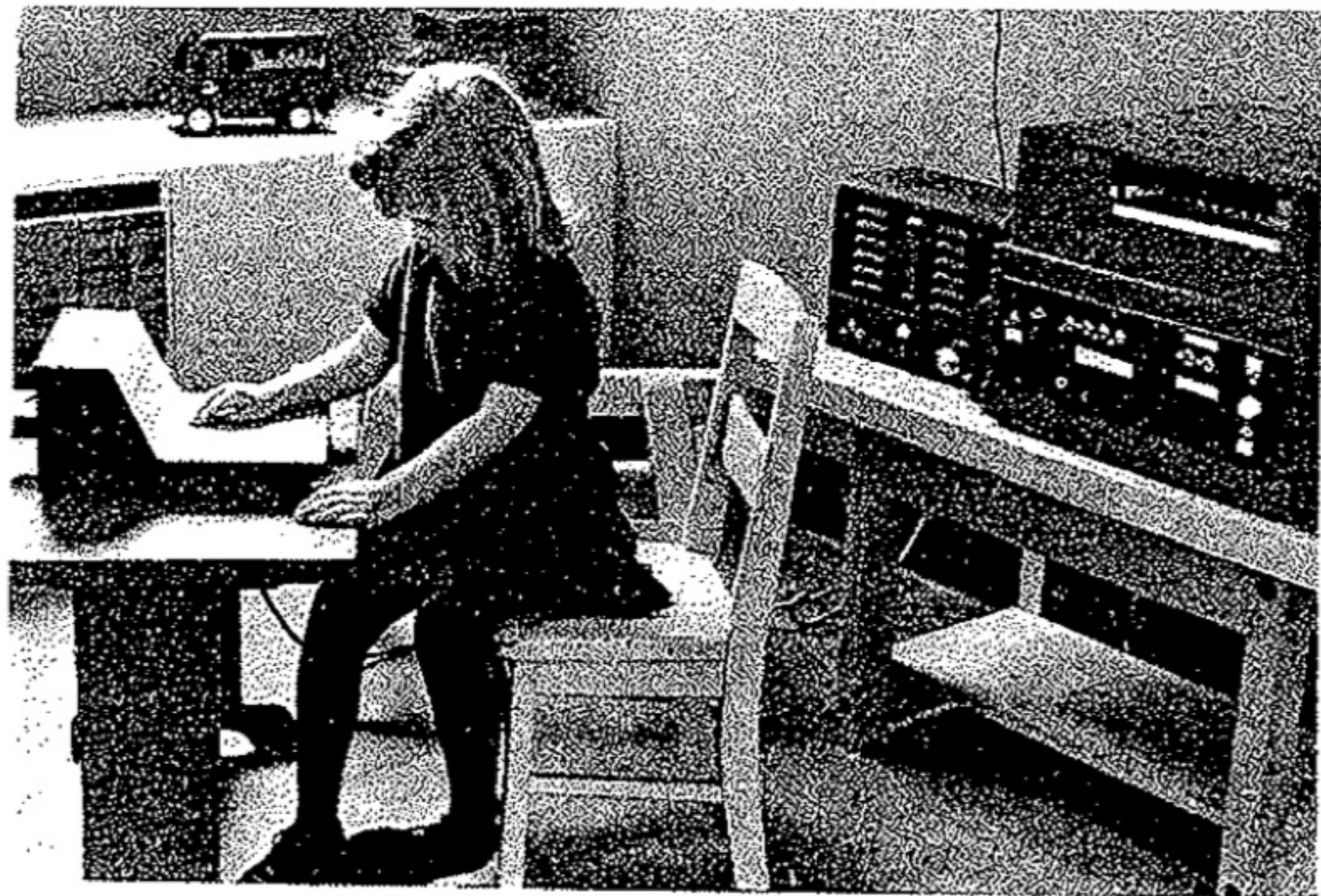
Teachers are out of date"



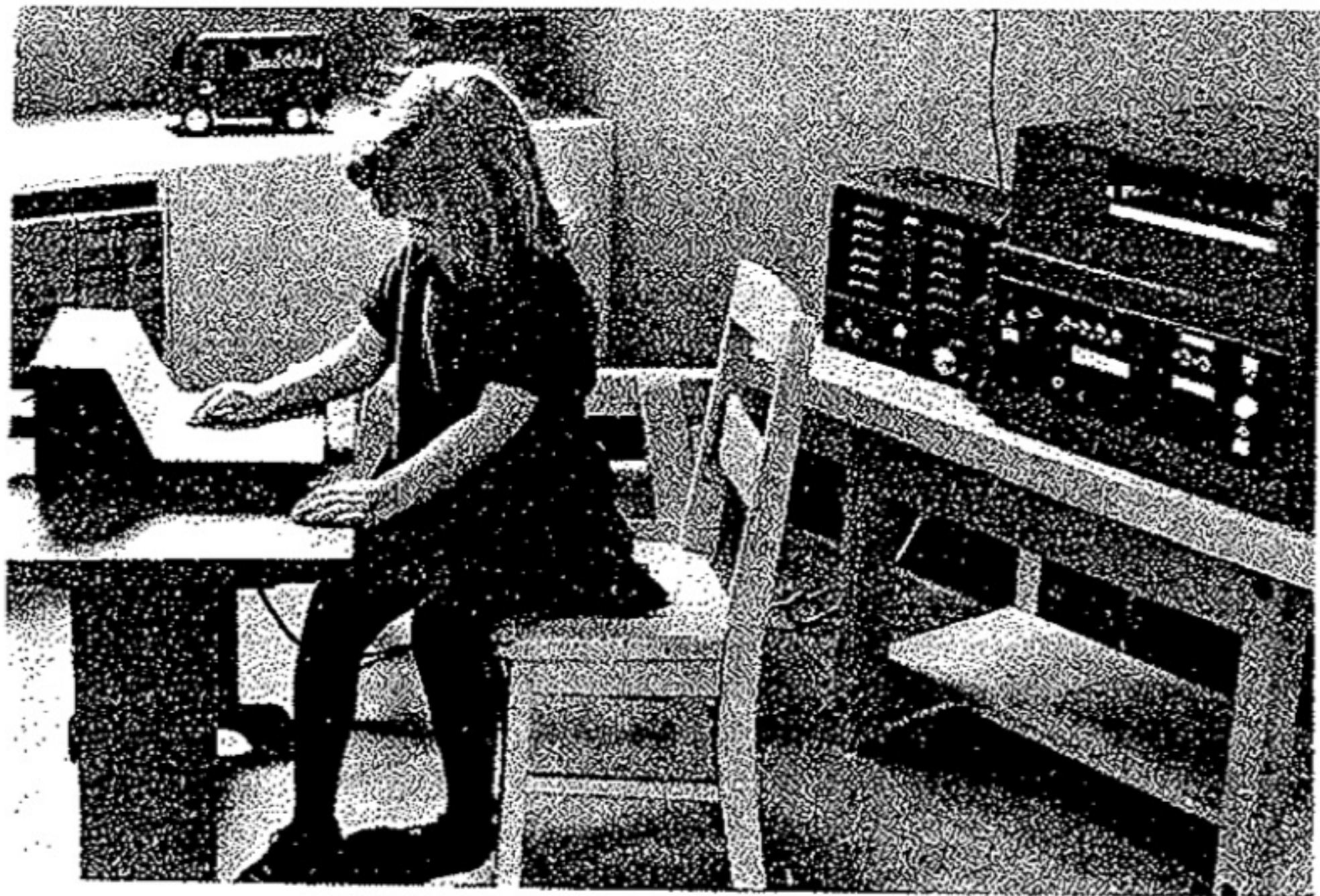
B.F. Skinner  
1954









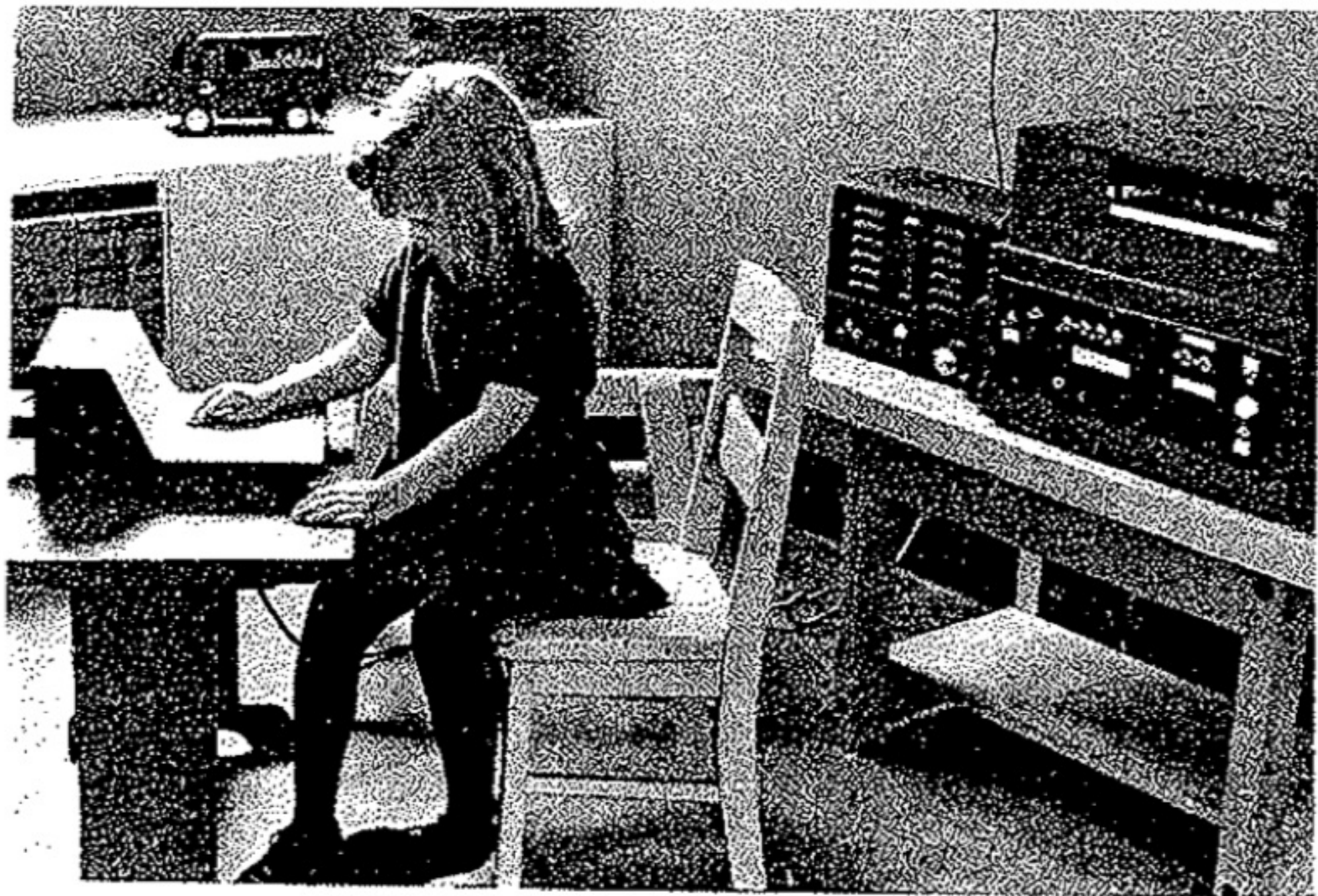


*Will Rapport*

FIGURE 10. A machine to teach "a good sense of rhythm." The child presses a button in unison with a series of clicks, presented at different speeds and in different patterns. Coincidences are reported by a flashing light. The machine can adjust the tolerance which defines a coincidence.







*Will Rapport*

FIGURE 10. A machine to teach "a good sense of rhythm." The child presses a button in unison with a series of clicks, presented at different speeds and in different patterns. Coincidences are reported by a flashing light. The machine can adjust the tolerance which defines a coincidence.

FIGURE 11. A machine to teach "musical thinking." The machine plays single notes, intervals, melodies, and so on. Keys may be lighted to indicate a set from which matching choices are to be made. Incorrect keys are silent. Correct matches may be reinforced additionally through the operation of the dispenser on the top of the machine which delivers tokens, candies, or coins.

*Will Rapport*



A brief history of technology in education

" ... is going to radically change  
the school system "



A brief history of technology in education

"Radio is going to radically change  
the school system"

1920



A brief history of technology in education

"TV is going to radically change  
the school system"

1940

A brief history of technology in education

"Video is going to radically change  
the school system"

1960

A brief history of technology in education

"The CD is going to radically change  
the school system"

1980

not so  
A brief history of technology in education

"Internet is going to radically change  
the school system"

2000



not so  
A brief history of technology in education

"MOOCs are going to radically change  
the school system"

2010

not so  
A brief history of technology in education

"GenAI is going to radically change  
the school system"

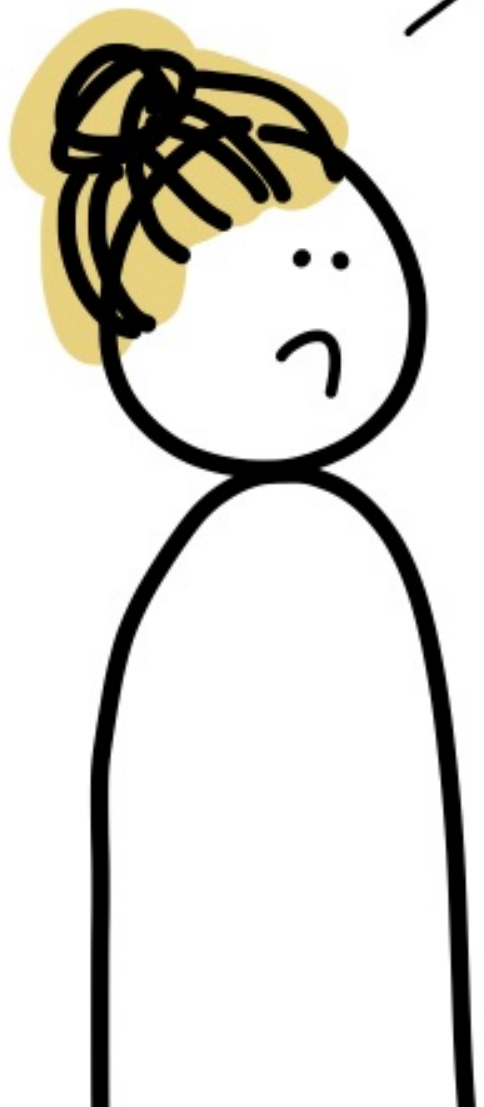
2020





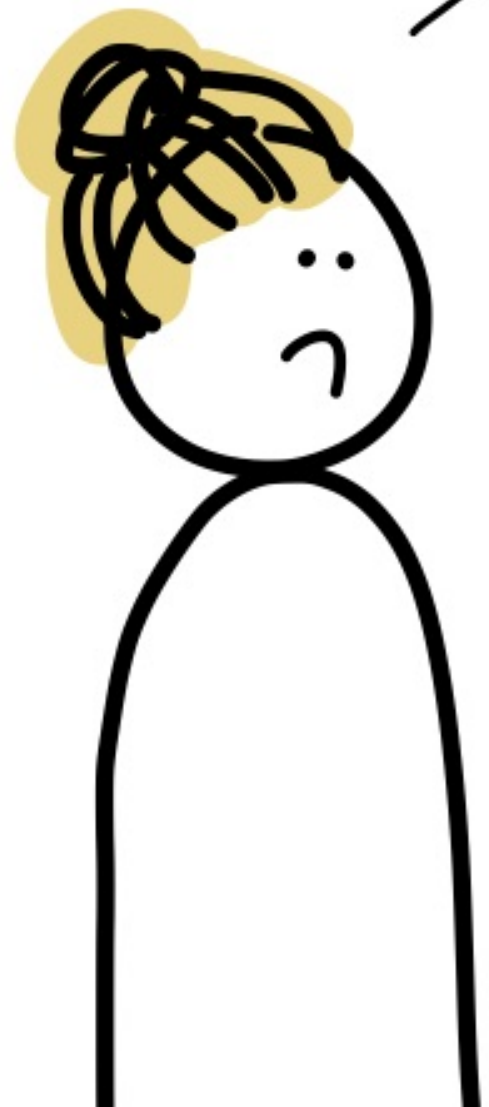
"GenAI is going to radically change  
the school system"

Really?

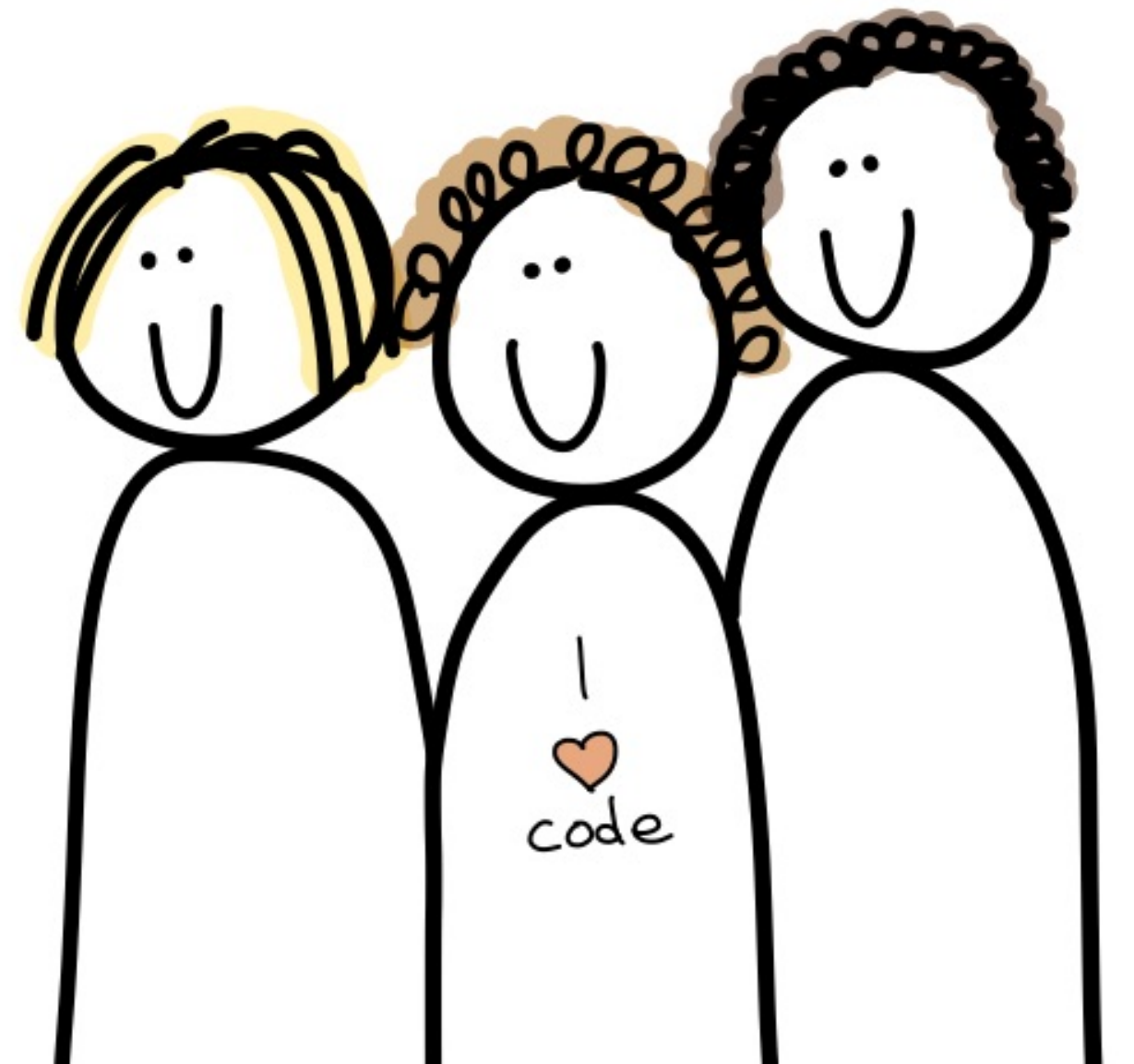


"GenAI is going to radically change  
the school system"

Really?



This is different!

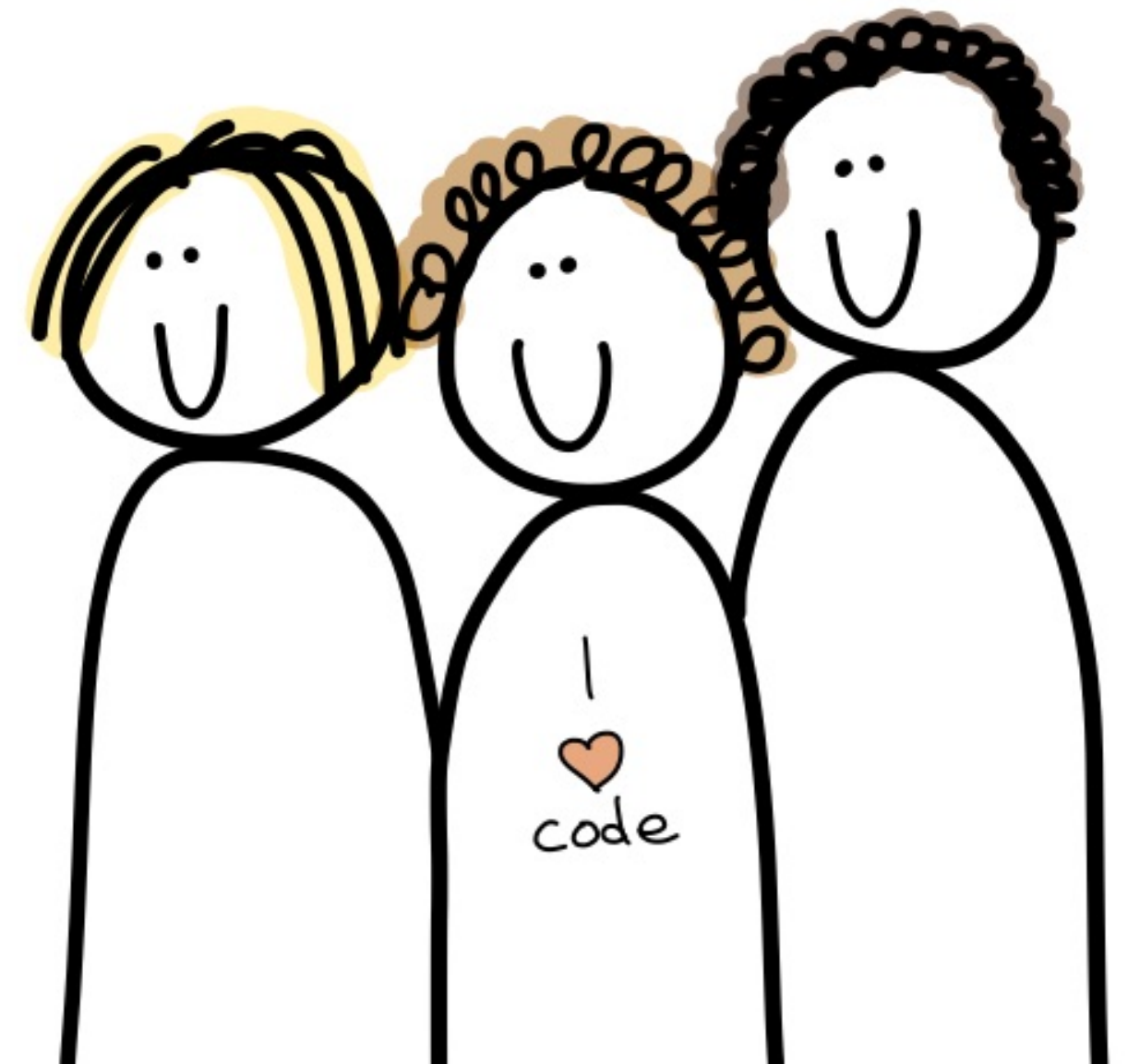
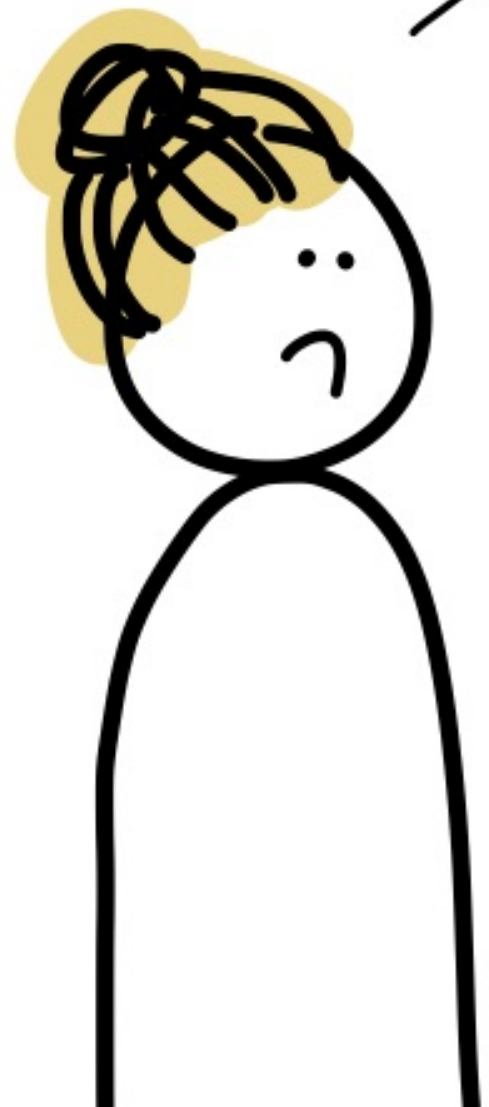


"GenAI is going to radically change  
the school system"

Really?

This is different!

It's personalized!







BF Skinner

Radio

TV

Video

CD

www

MOOCs

1900

1920

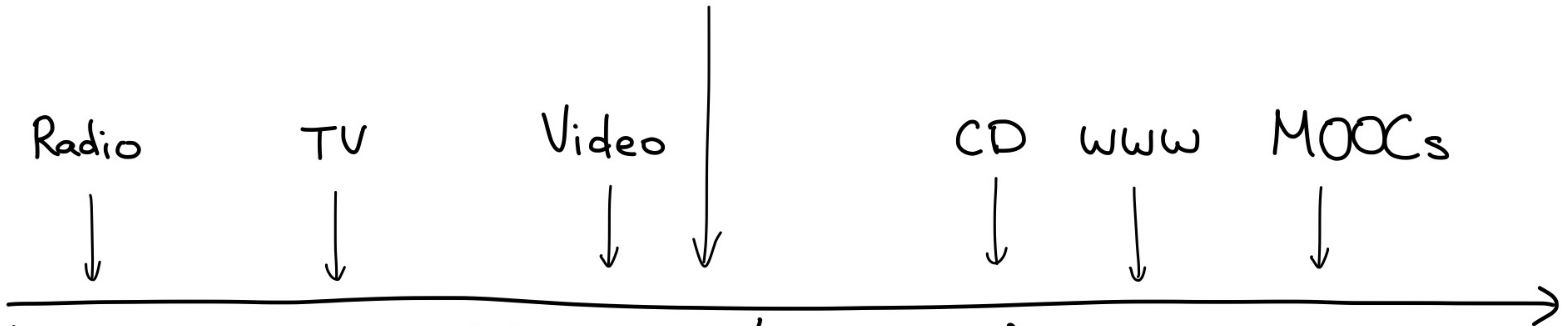
1940

1960

1980

2000

2020

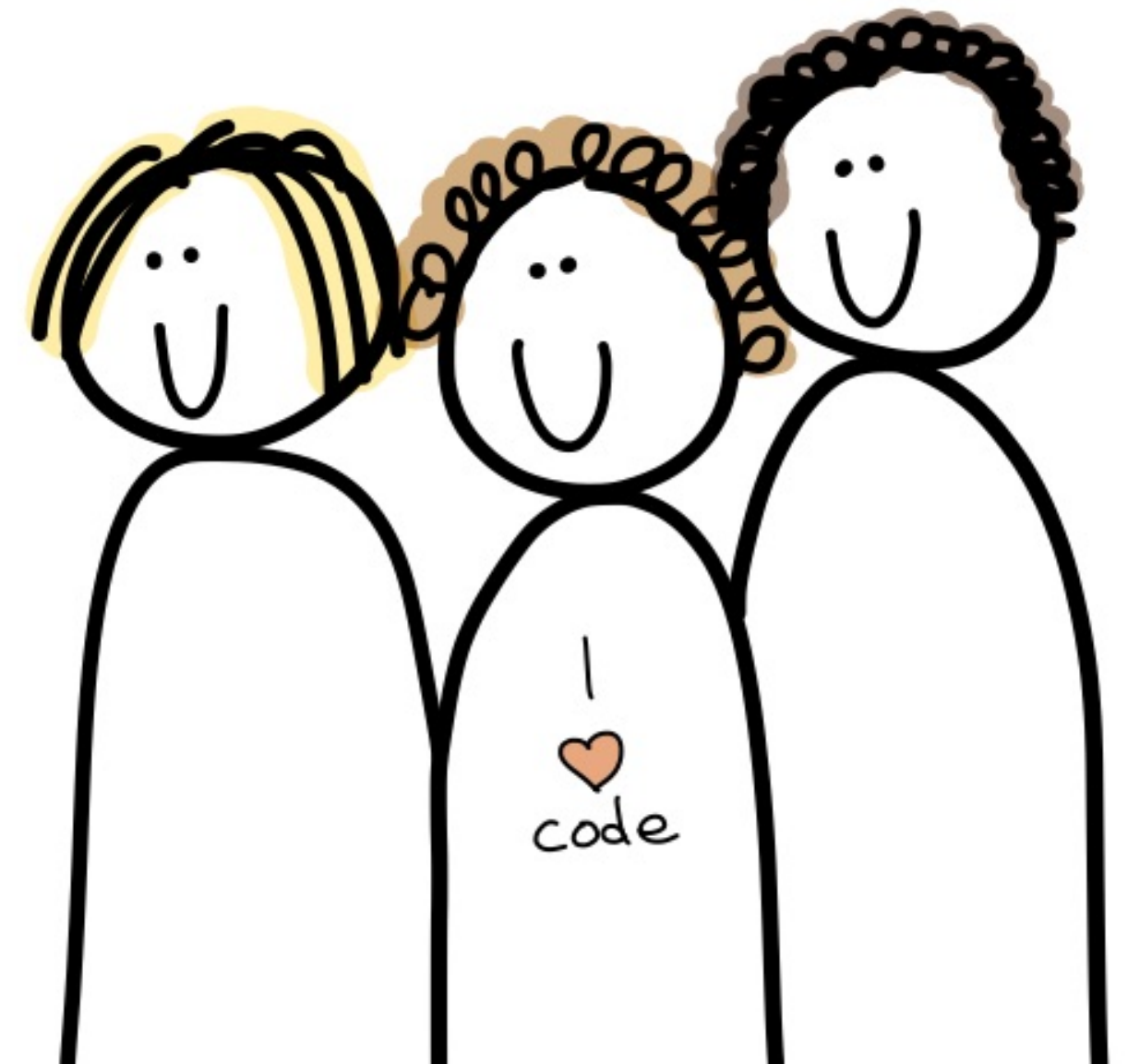
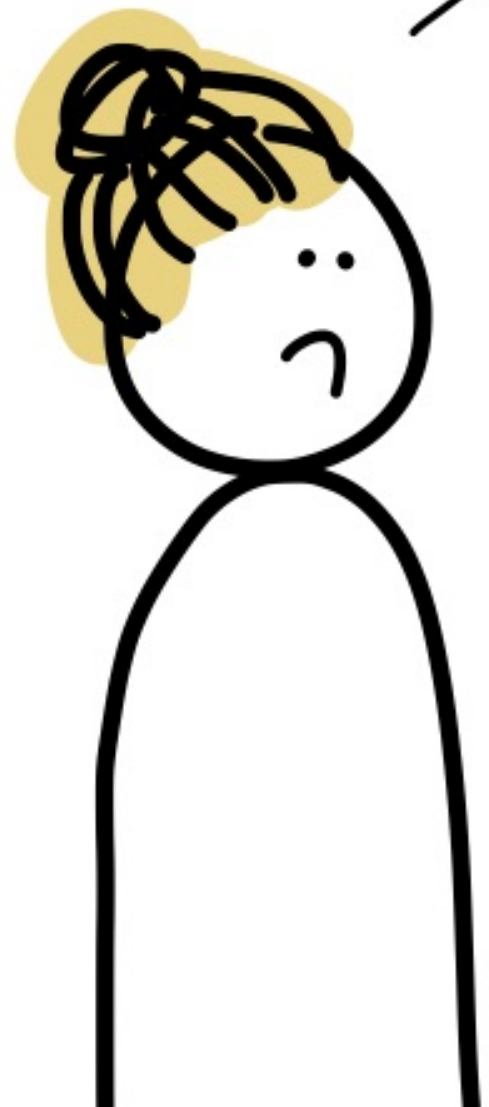


"GenAI is going to radically change  
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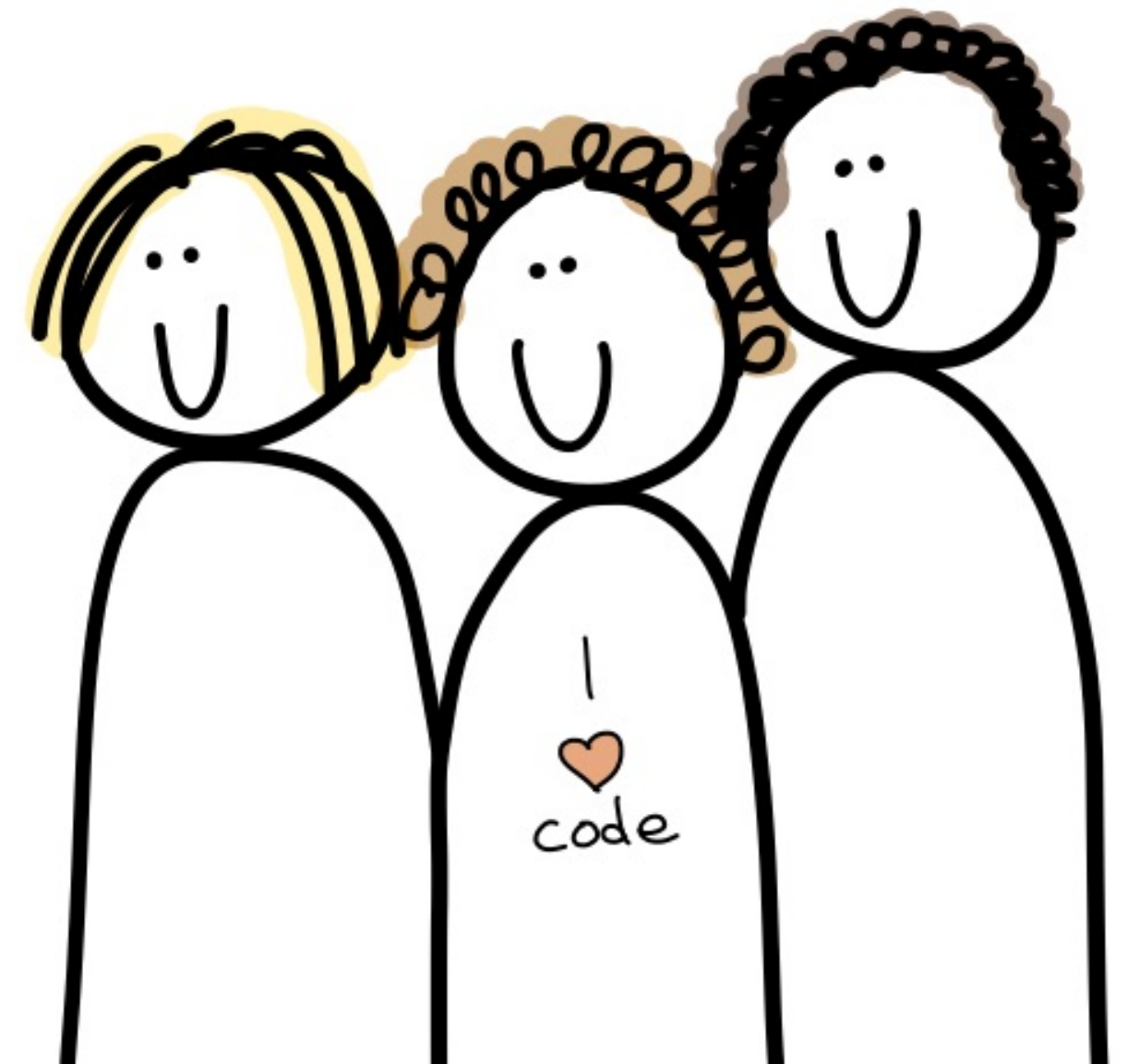
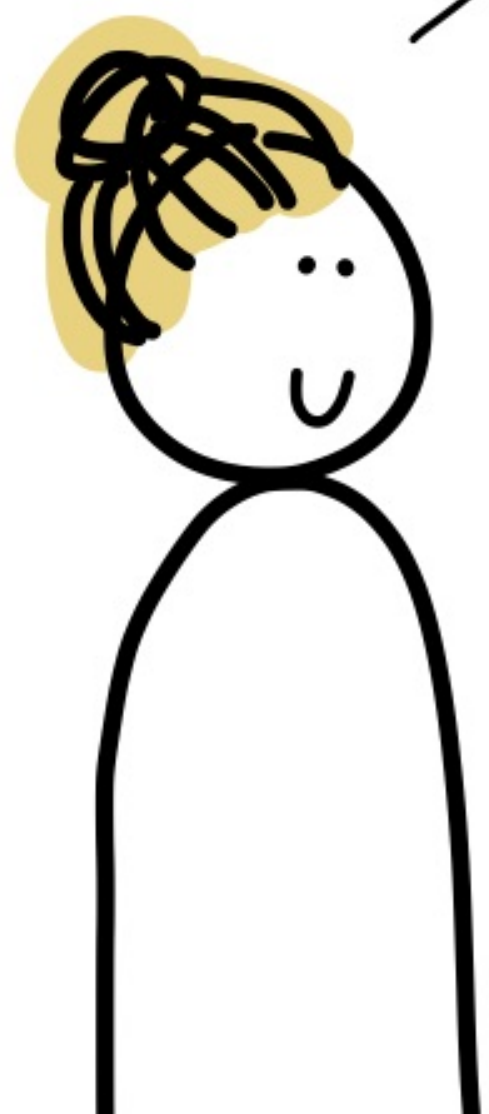


Sidney Pressey said that too!

Really?

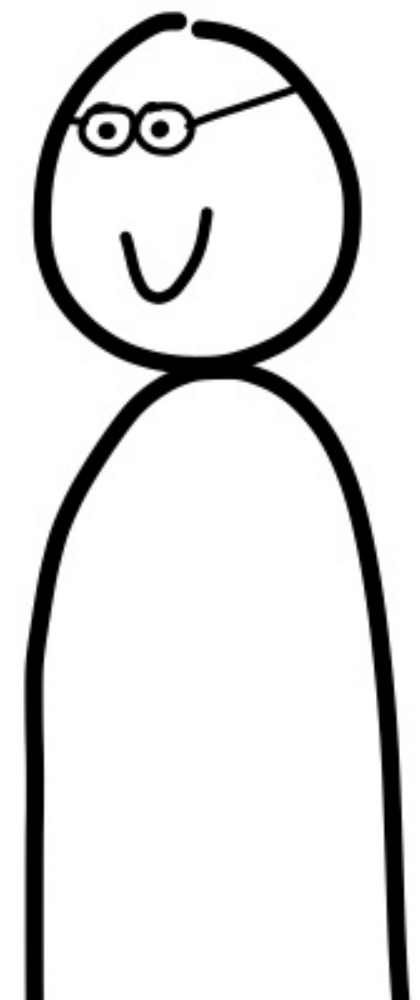
This is different!

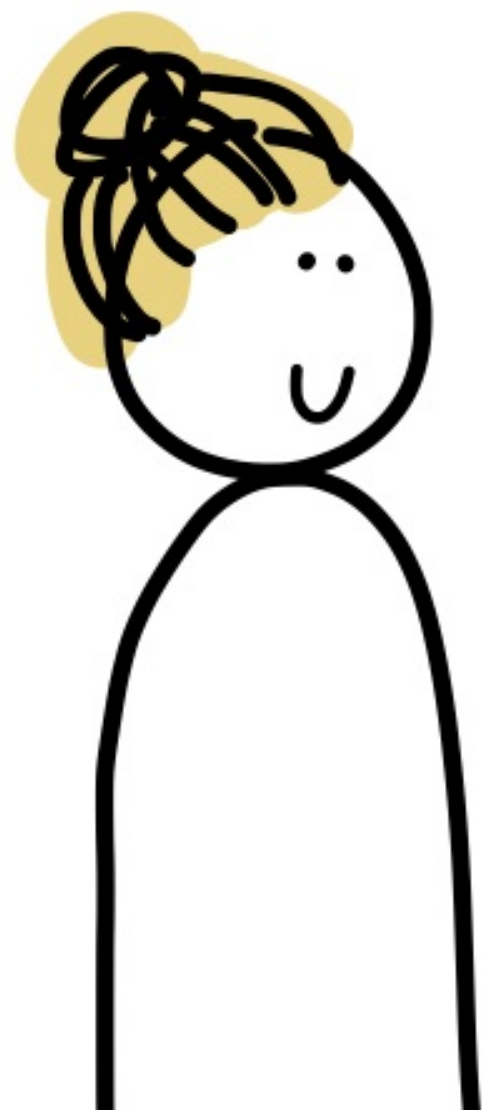
It's personalized!



"Unlike mass media, my  
system is individualized."

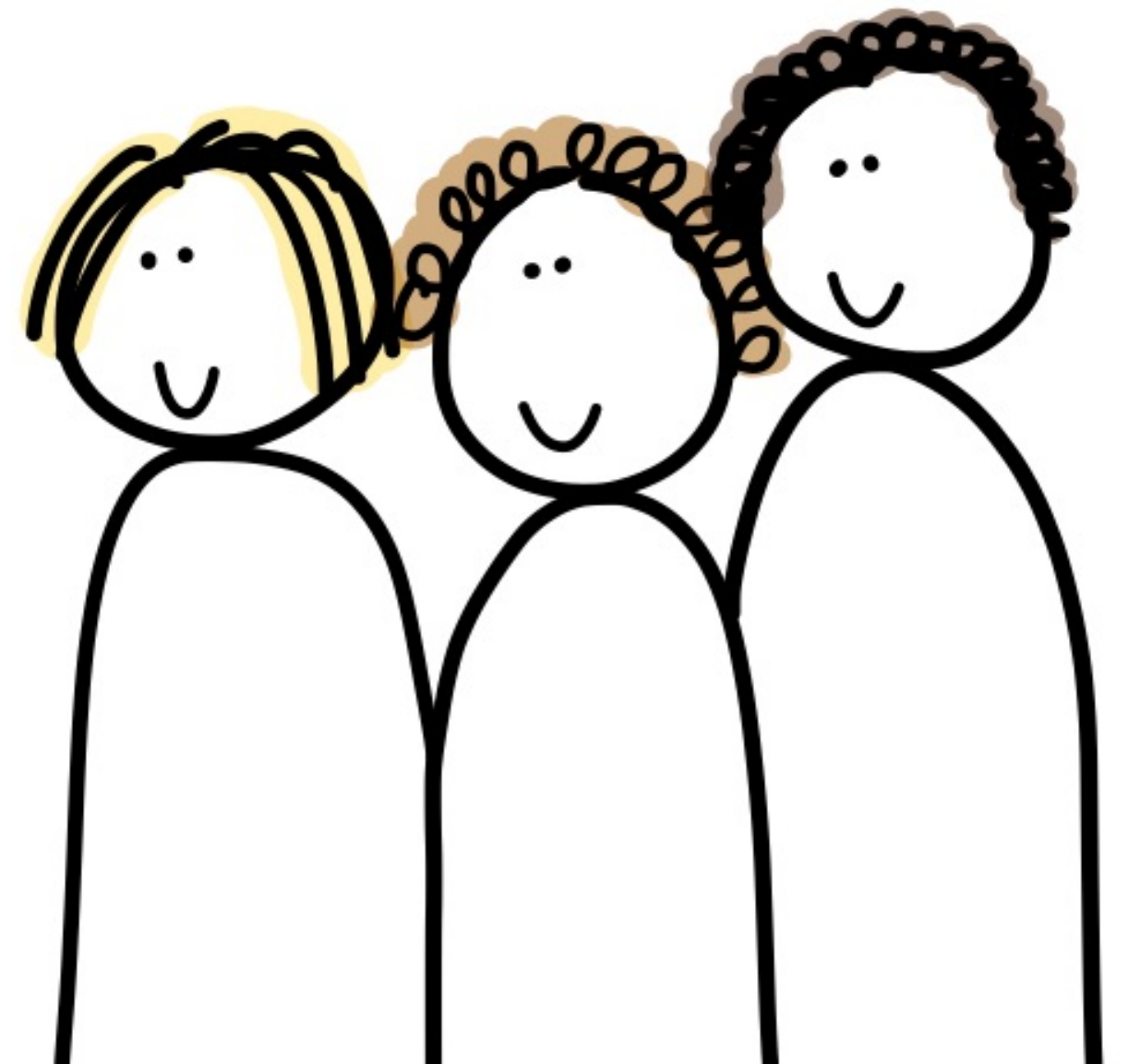
Sydney Pressey →  
1926





It's personalized!

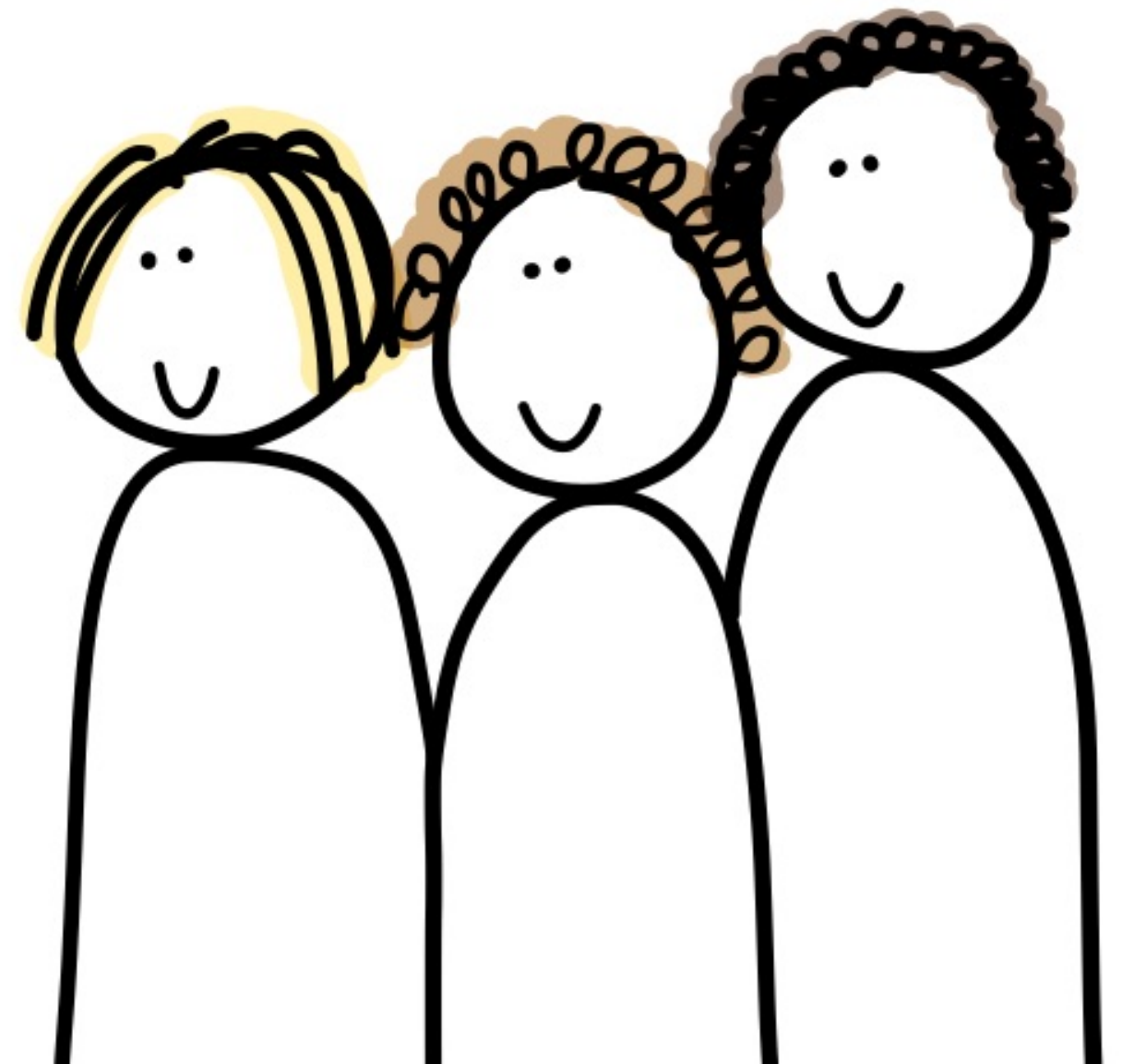
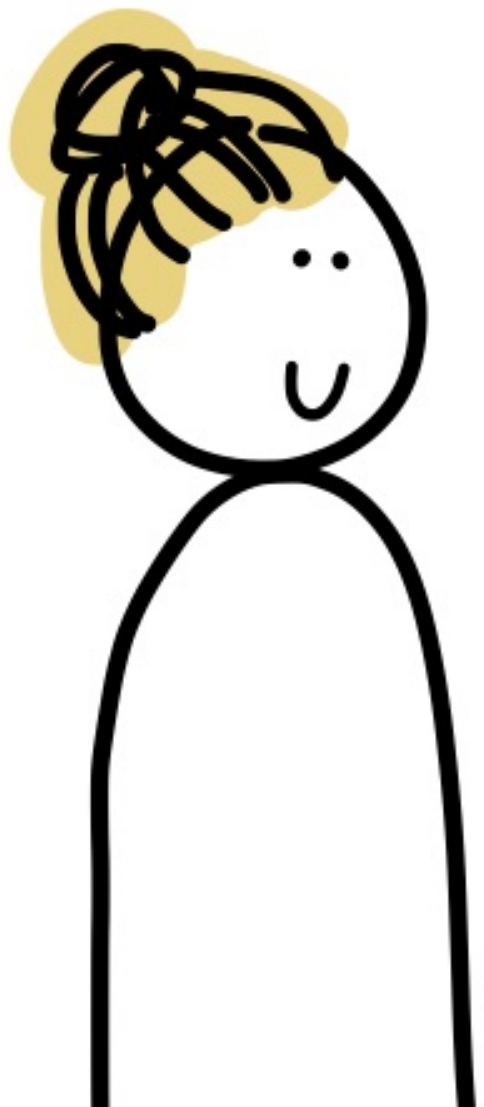
This is different!



Teachers are so conservative!

This is different!

It's personalized!



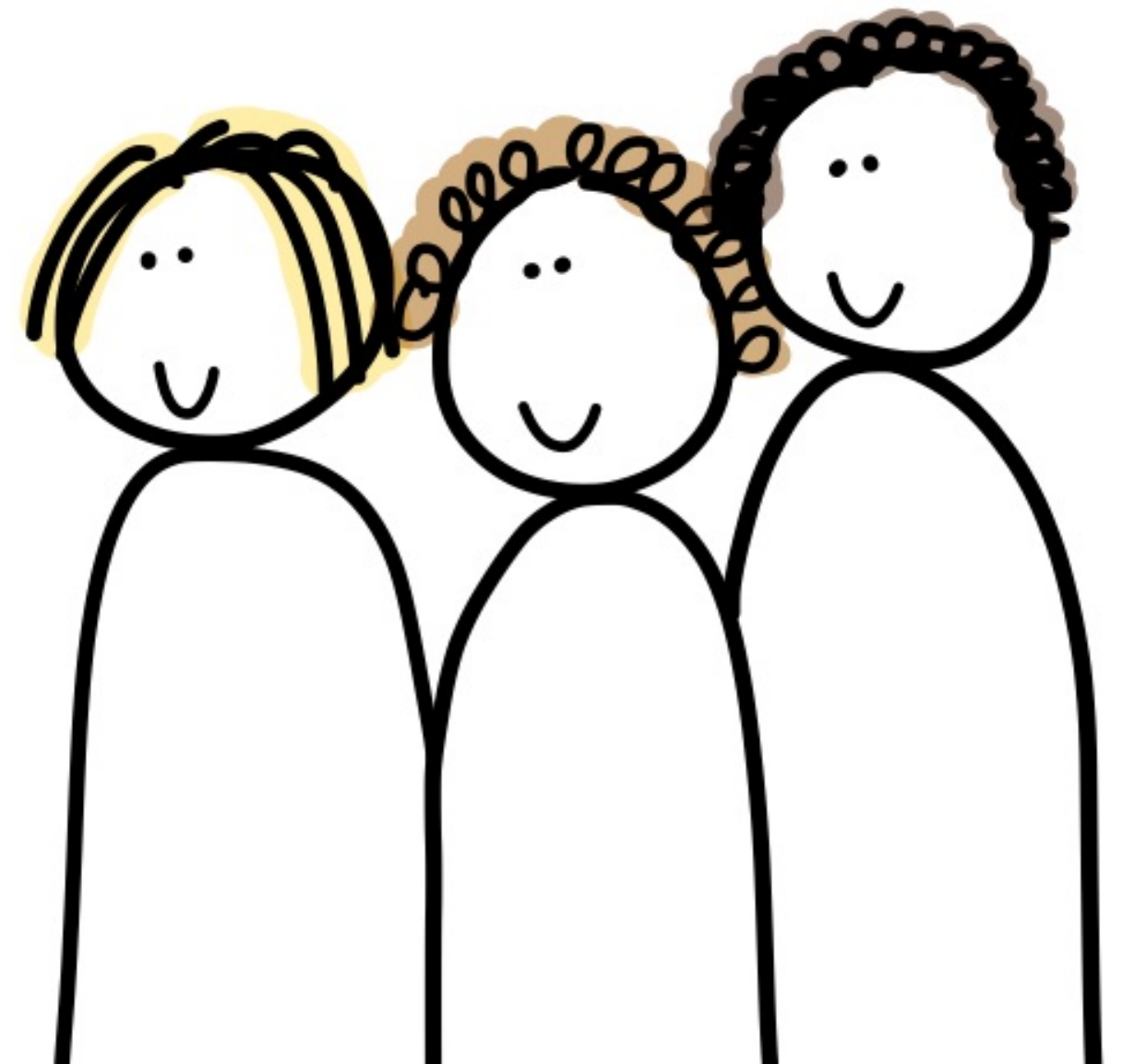
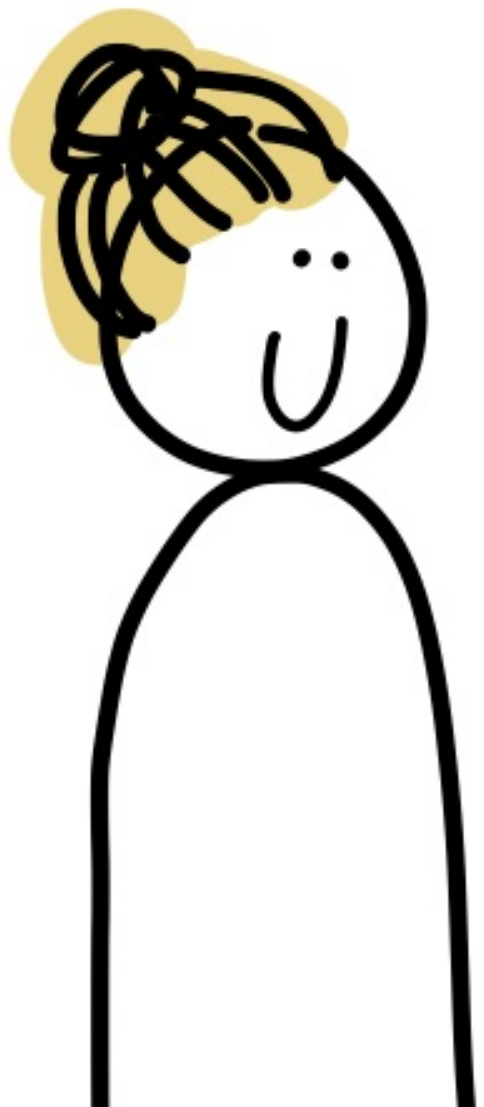


Sidney Pressey said that too!

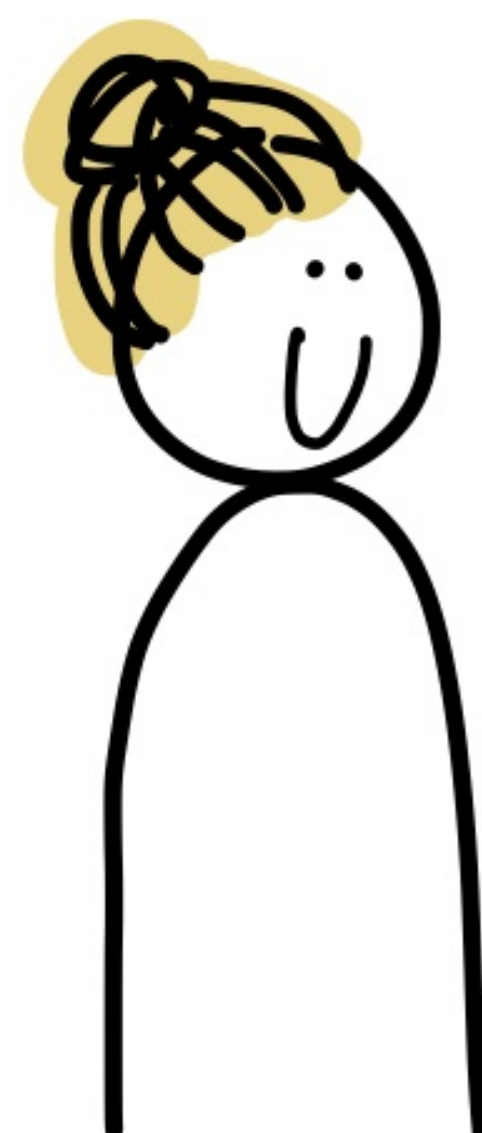
Teachers are so conservative!

This is different!

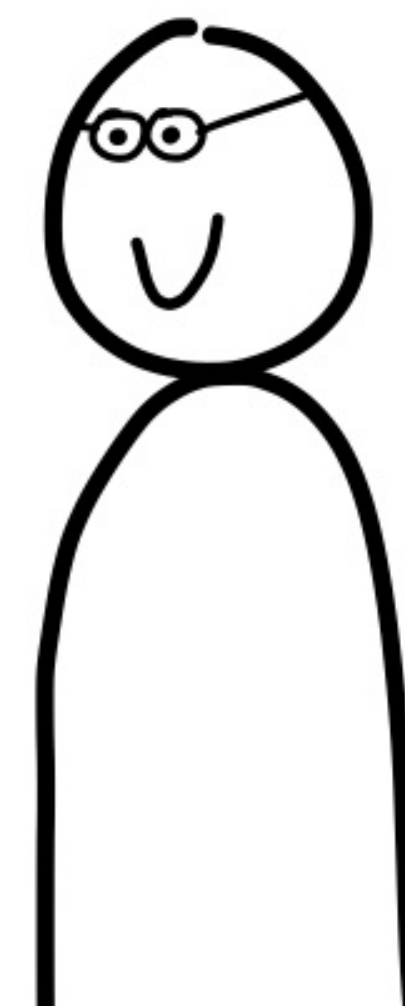
It's personalized!



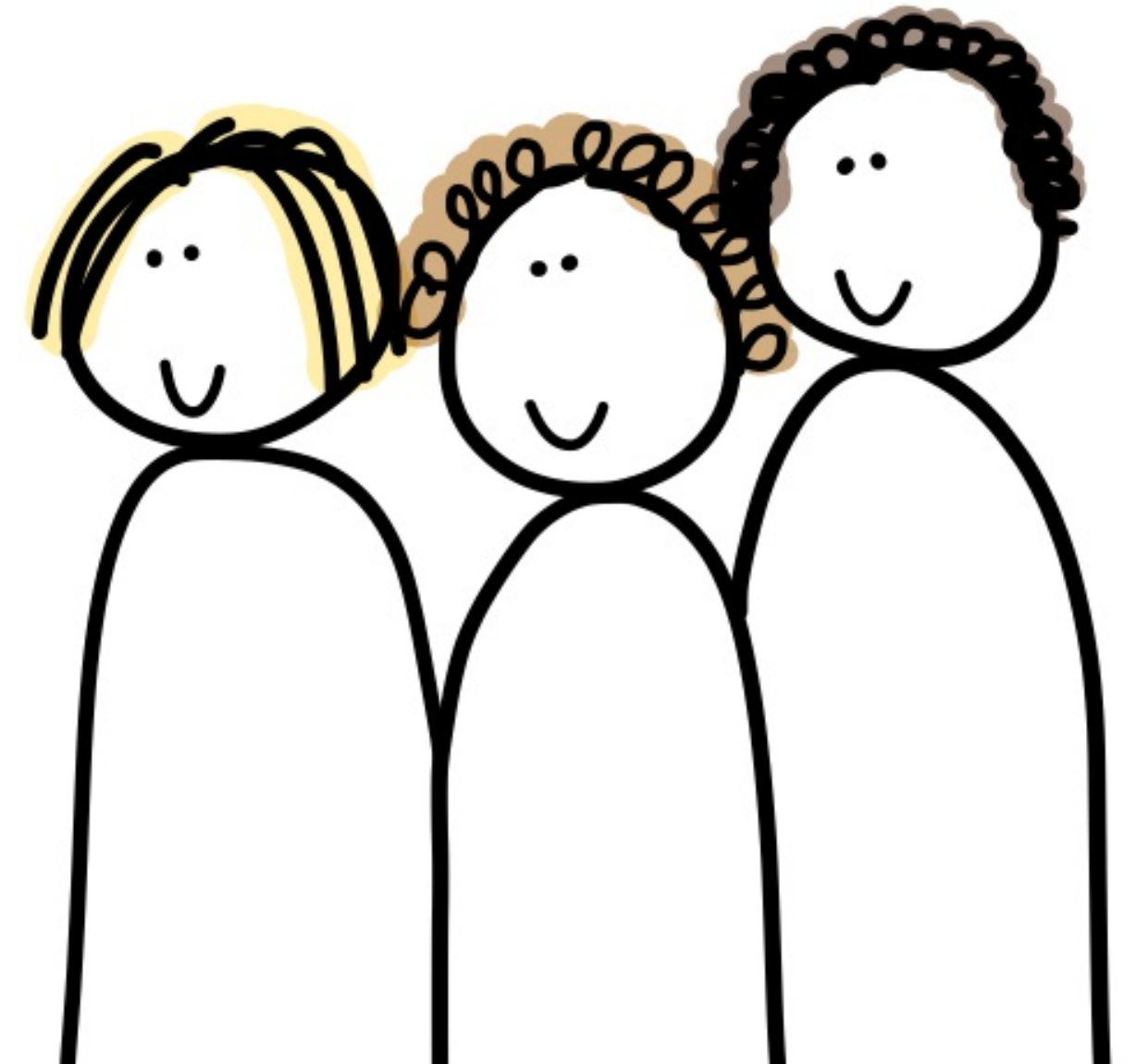
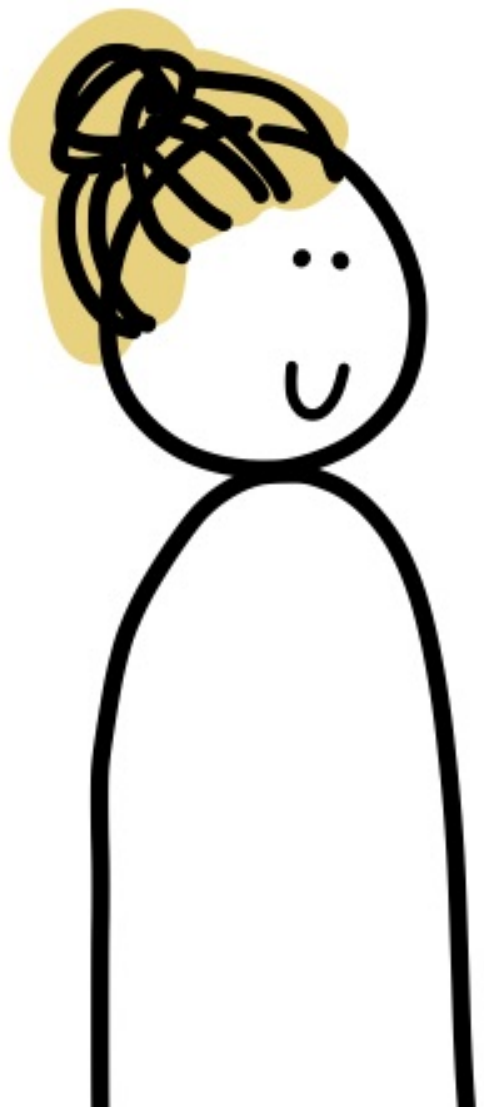
"Schools don't want automation.  
They are too conservative."



Sydney Pressey →  
1926

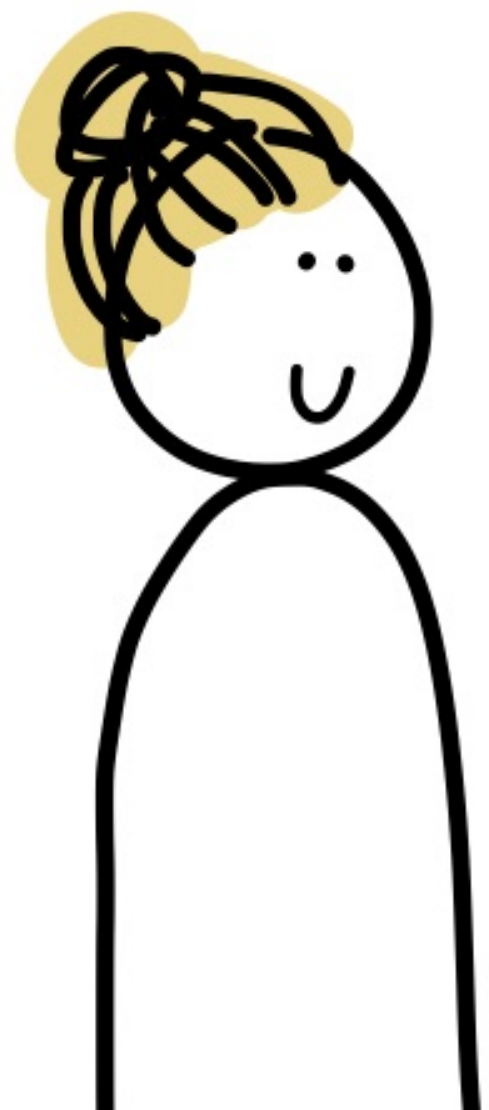


Teachers are so  
conservative!

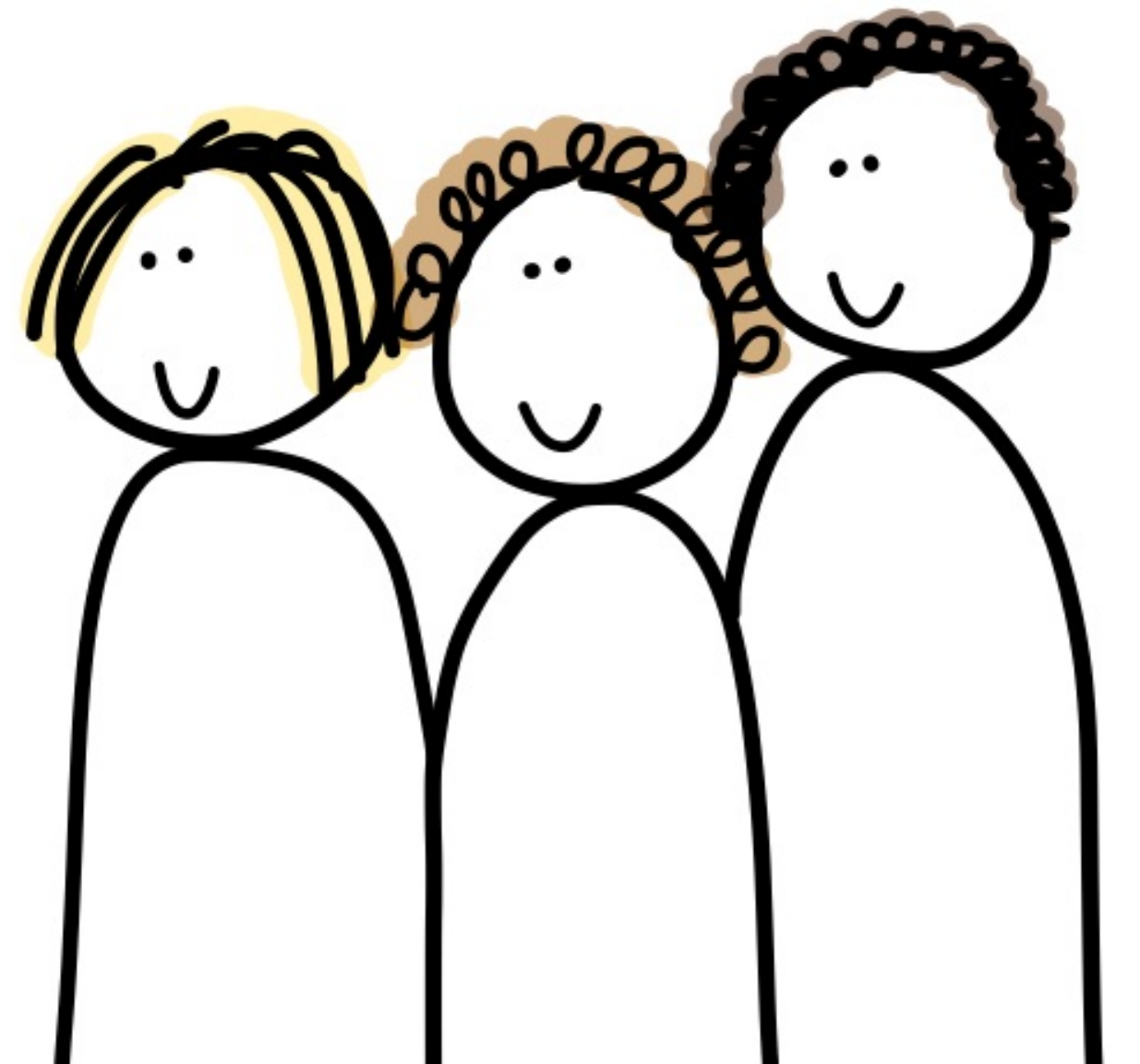




But... the pandemic?



Teachers are so conservative!







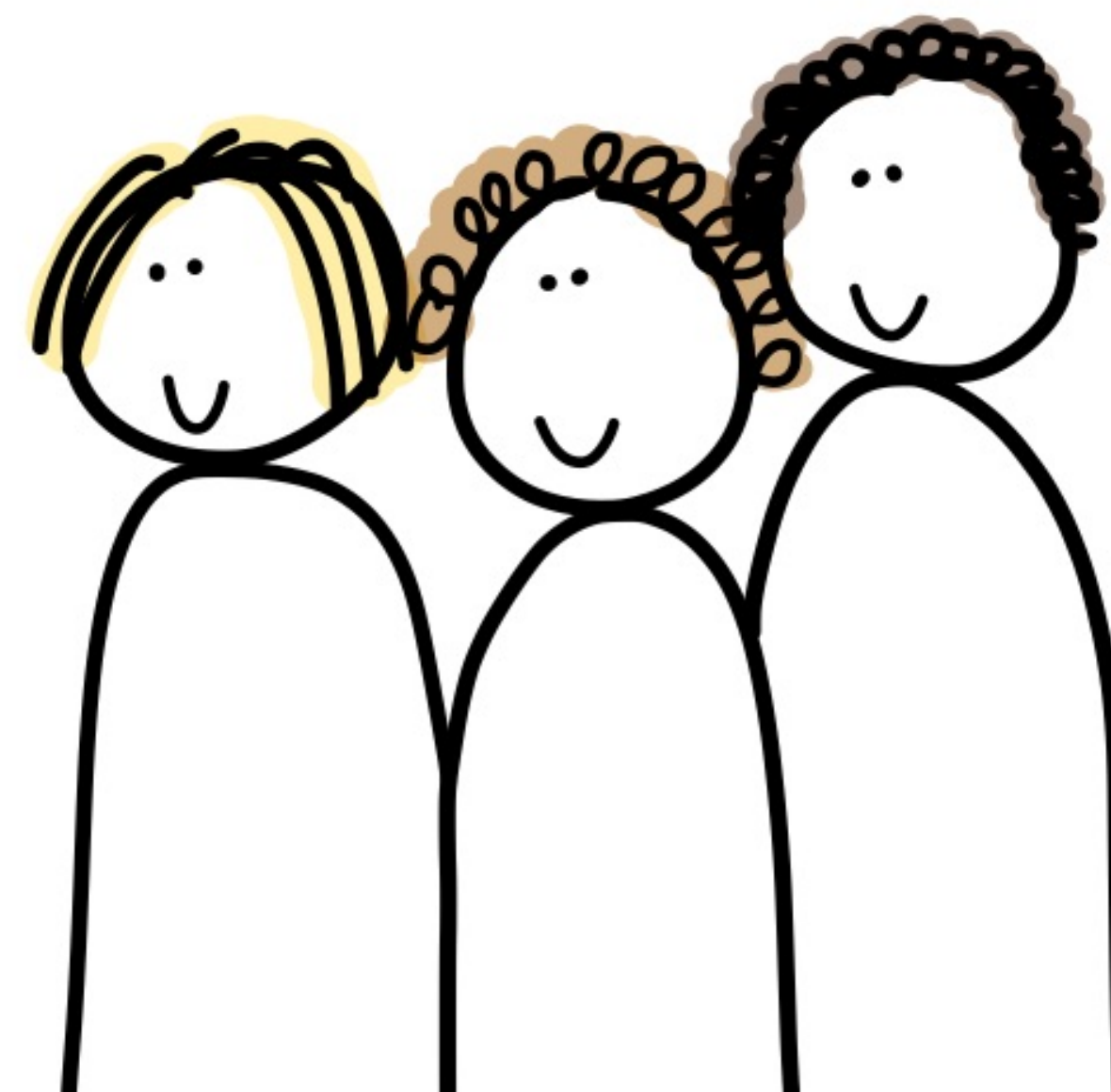
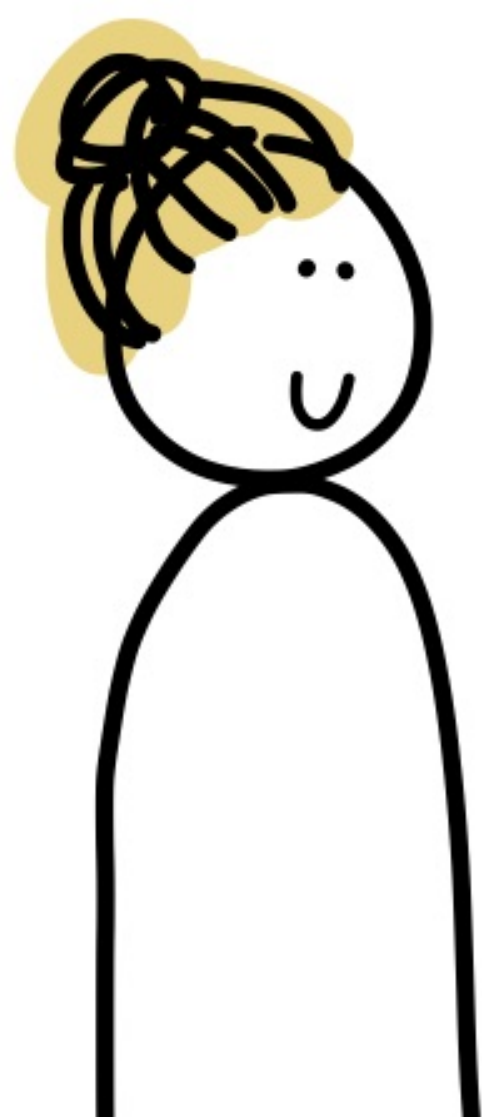
GEOLOGIC ERAS	
Day	Period
CENozoic	Quaternary
	Tertiary
	Secondary
	Primary
MESozoic	Quaternary
	Tertiary
	Secondary
	Primary
PALeozoic	Quaternary
	Tertiary
	Secondary
	Primary
PROterozoic	Quaternary
	Tertiary
	Secondary
	Primary
ARcheozoic	Quaternary
	Tertiary
	Secondary
	Primary



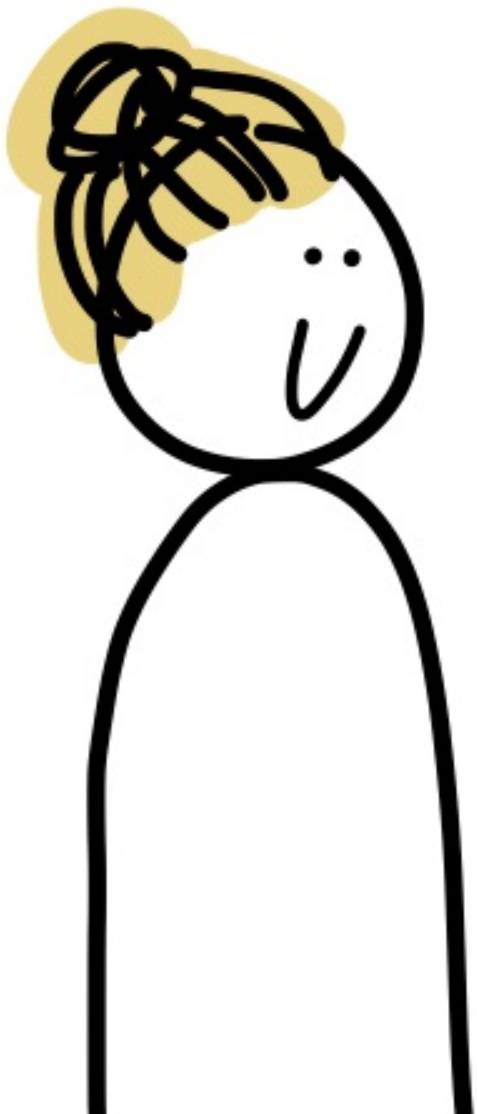




Gen AI can think!!



# Generative AI

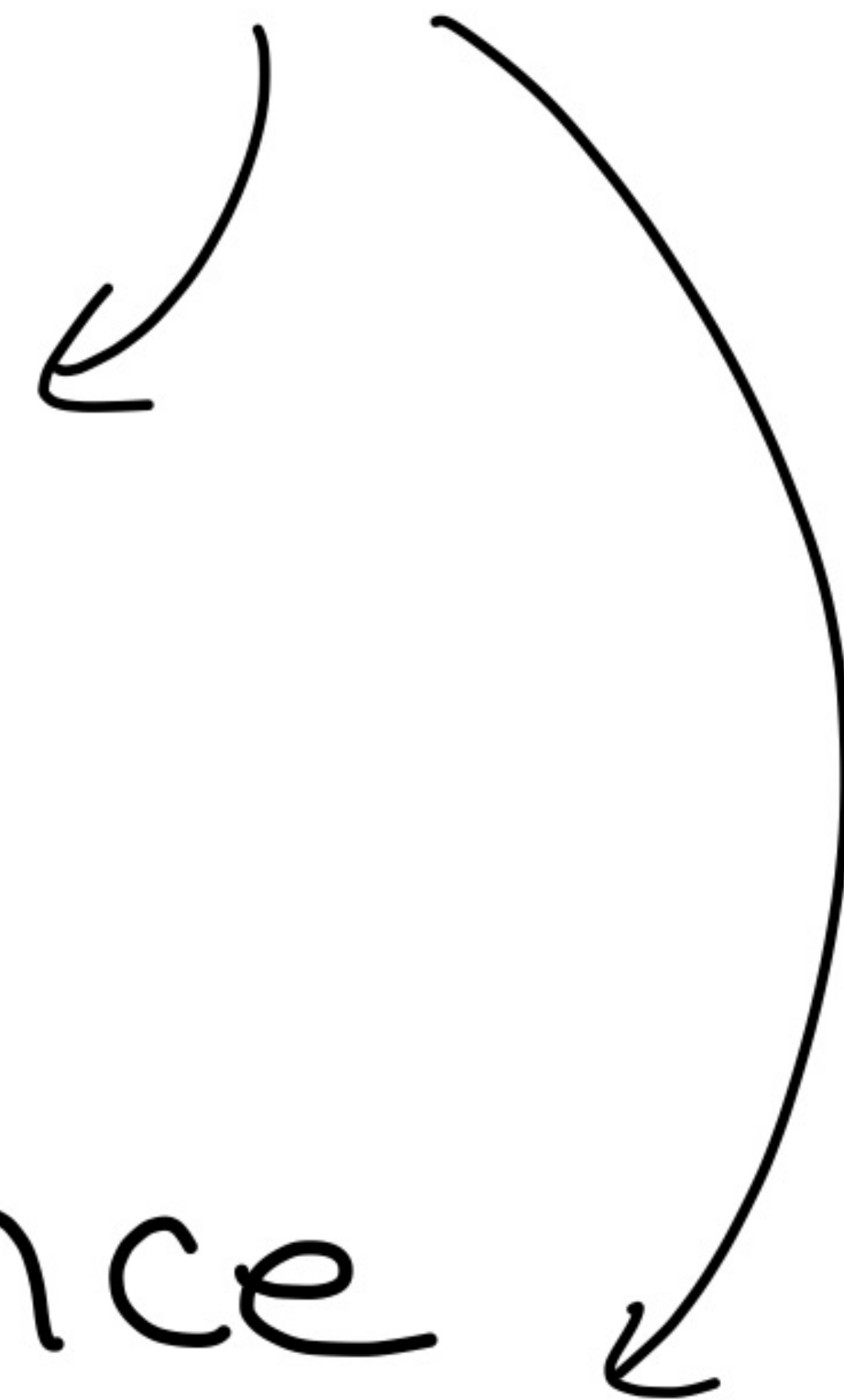
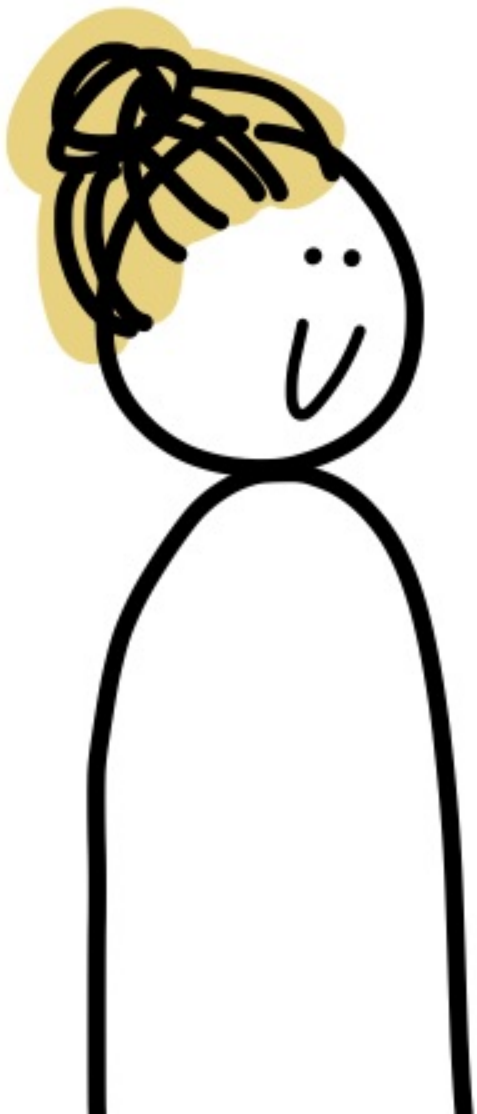




Generative AI

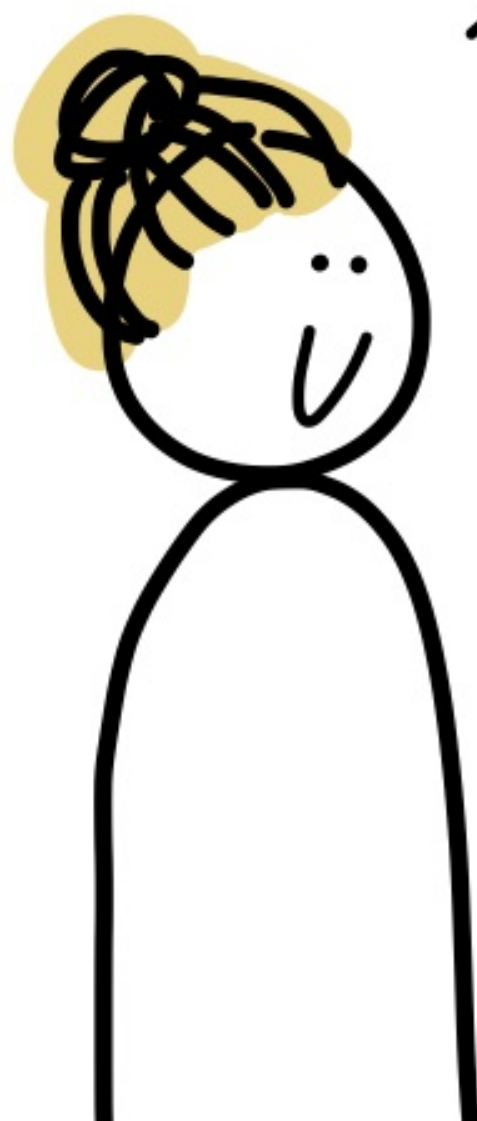
Artificial

Intelligence



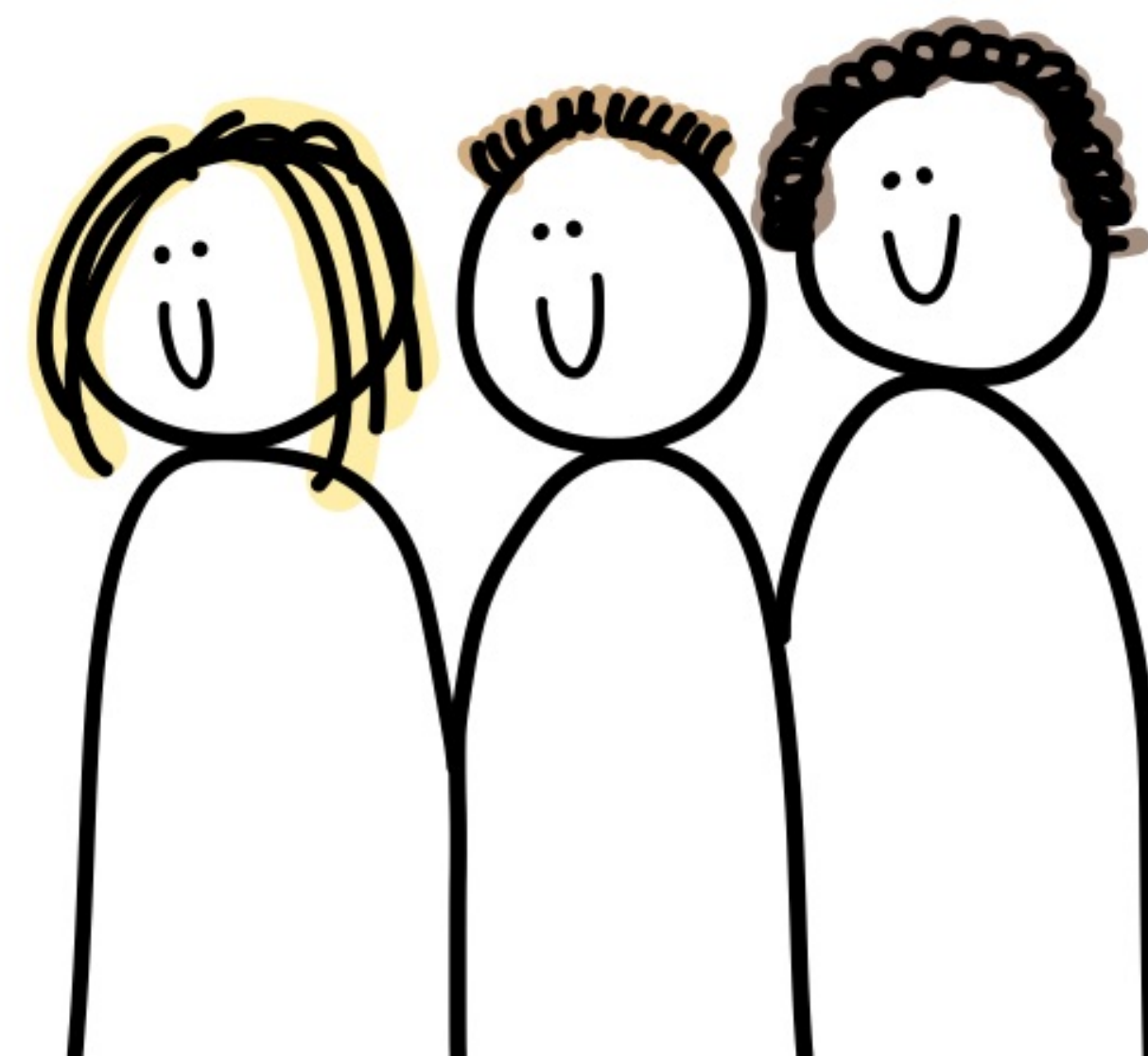
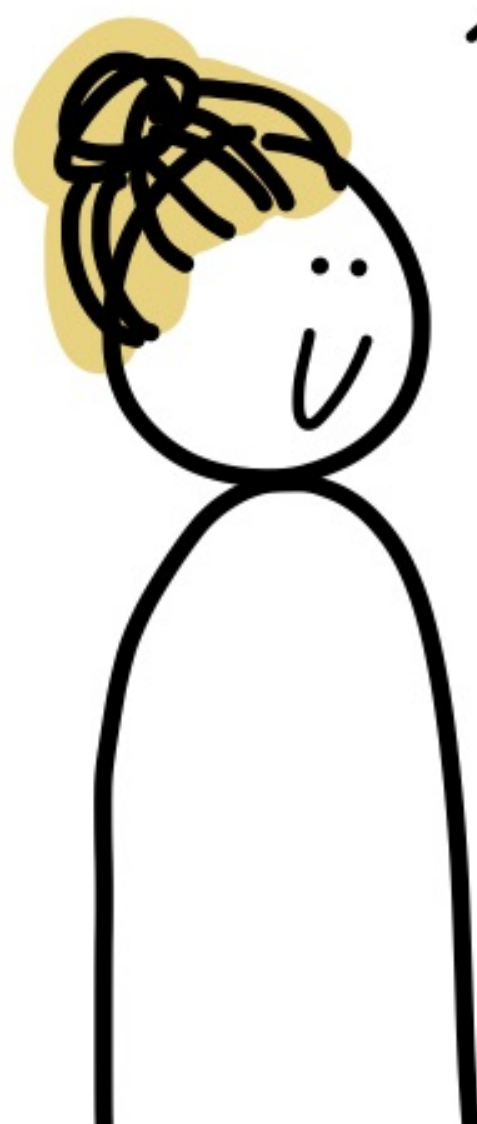
# Generative AI

The big bad ...



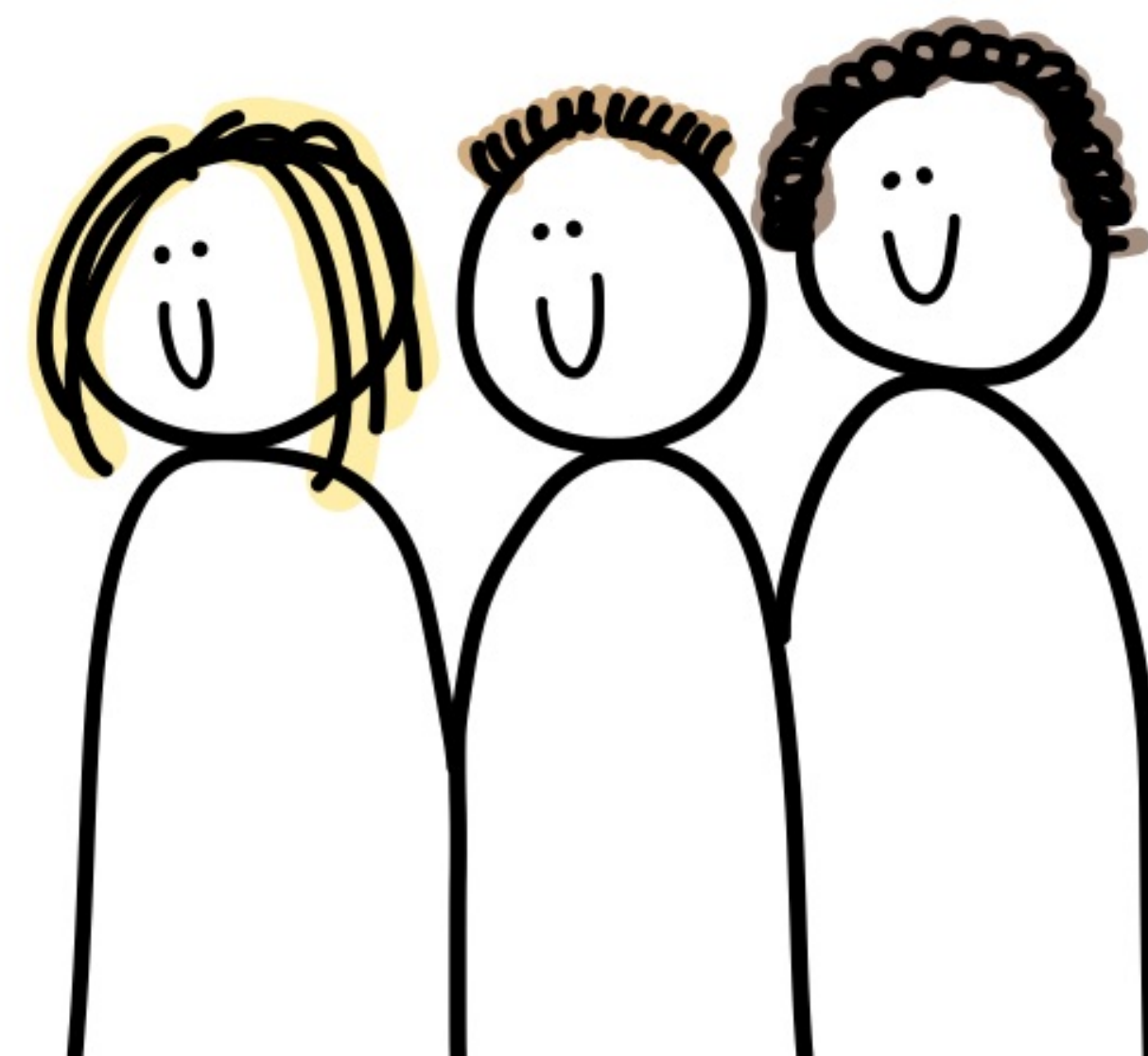
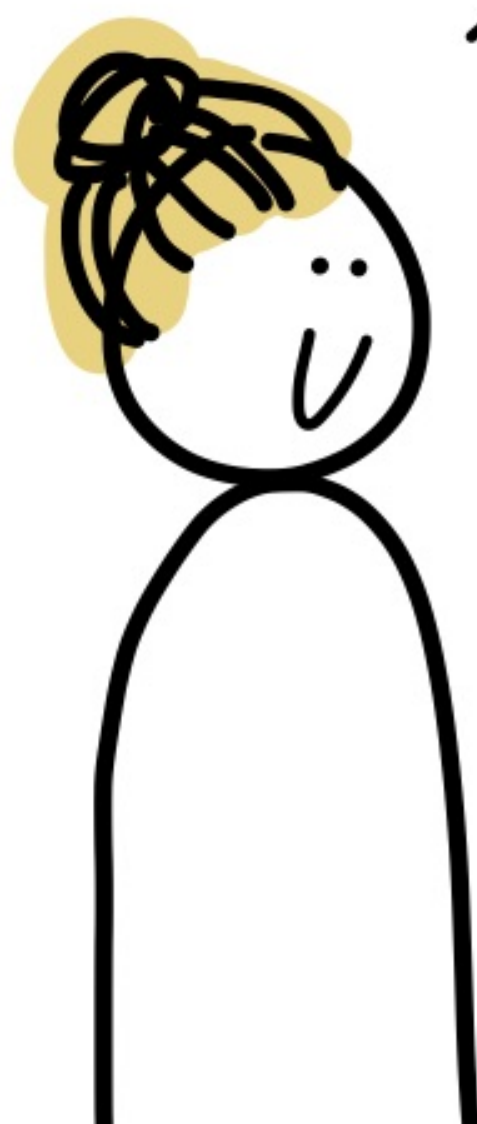
# Generative AI

The big bad ...



# Generative AI

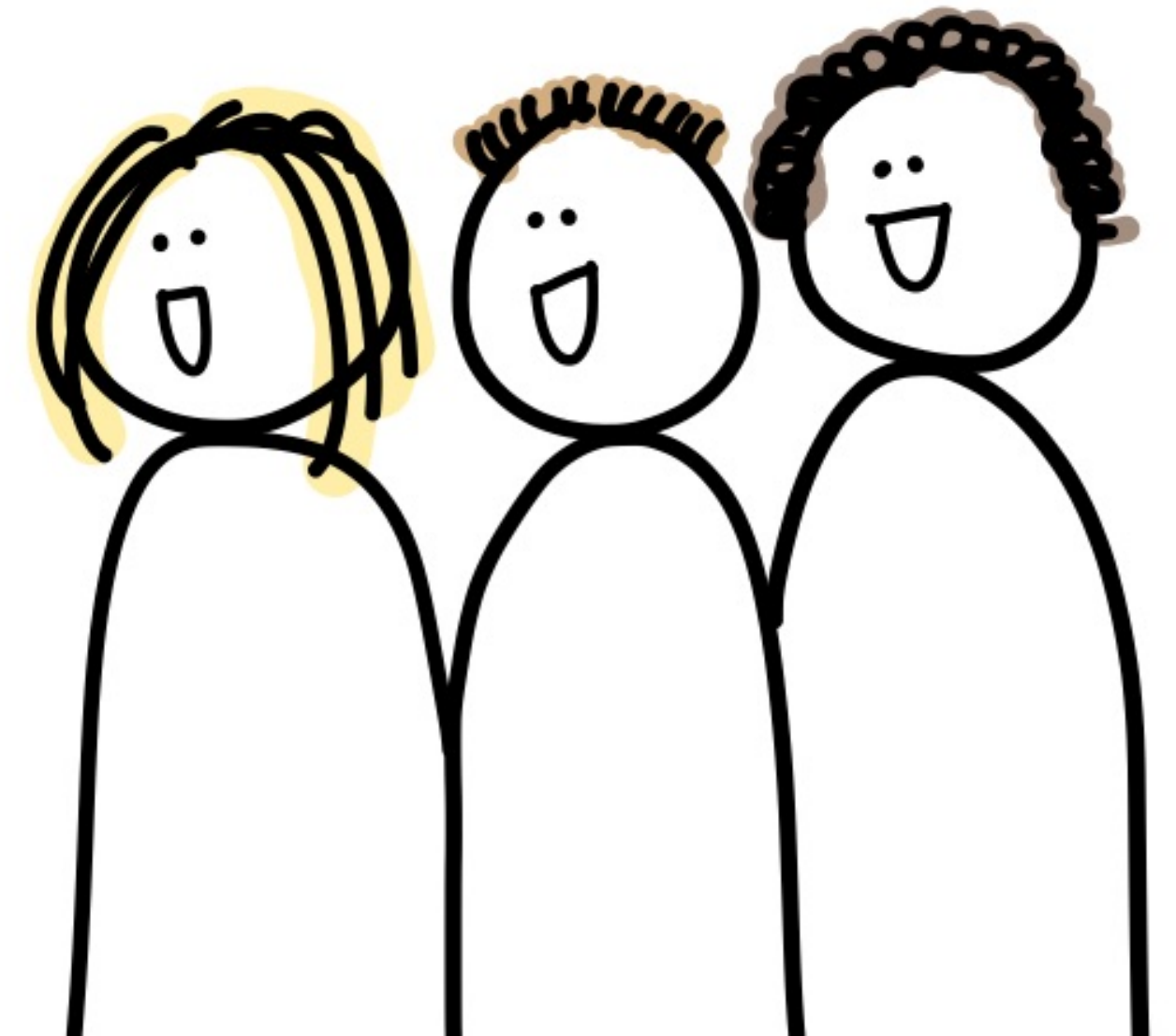
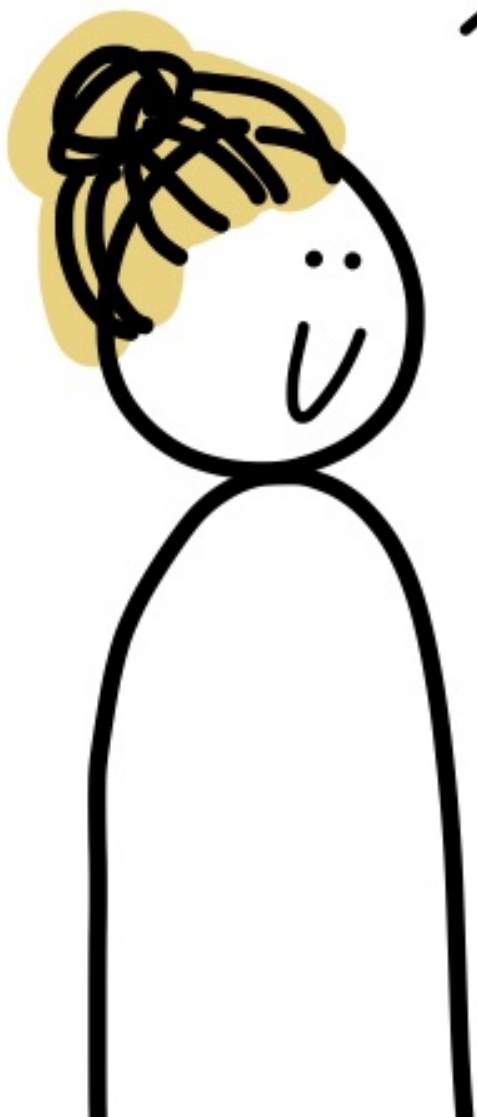
The big bad ...  
... wolf



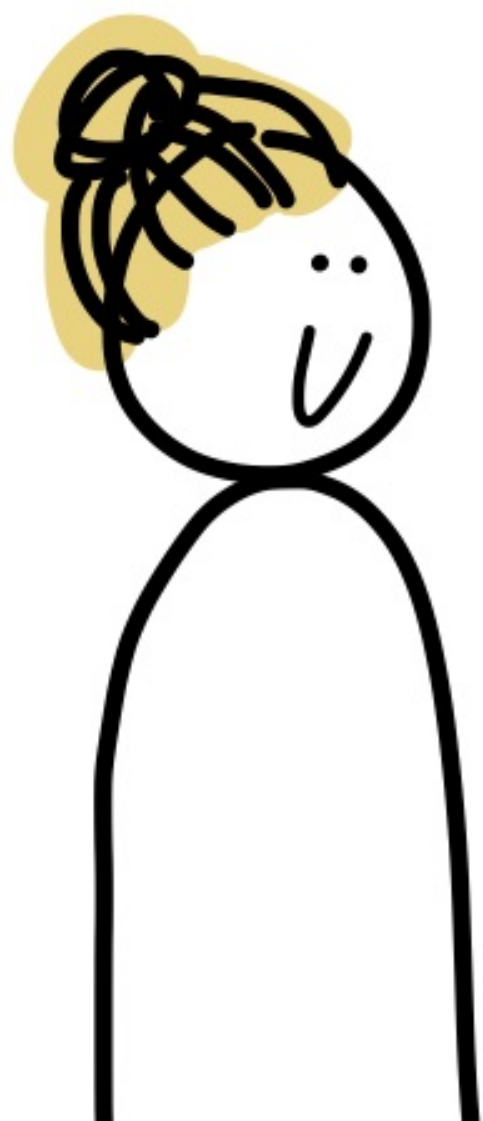
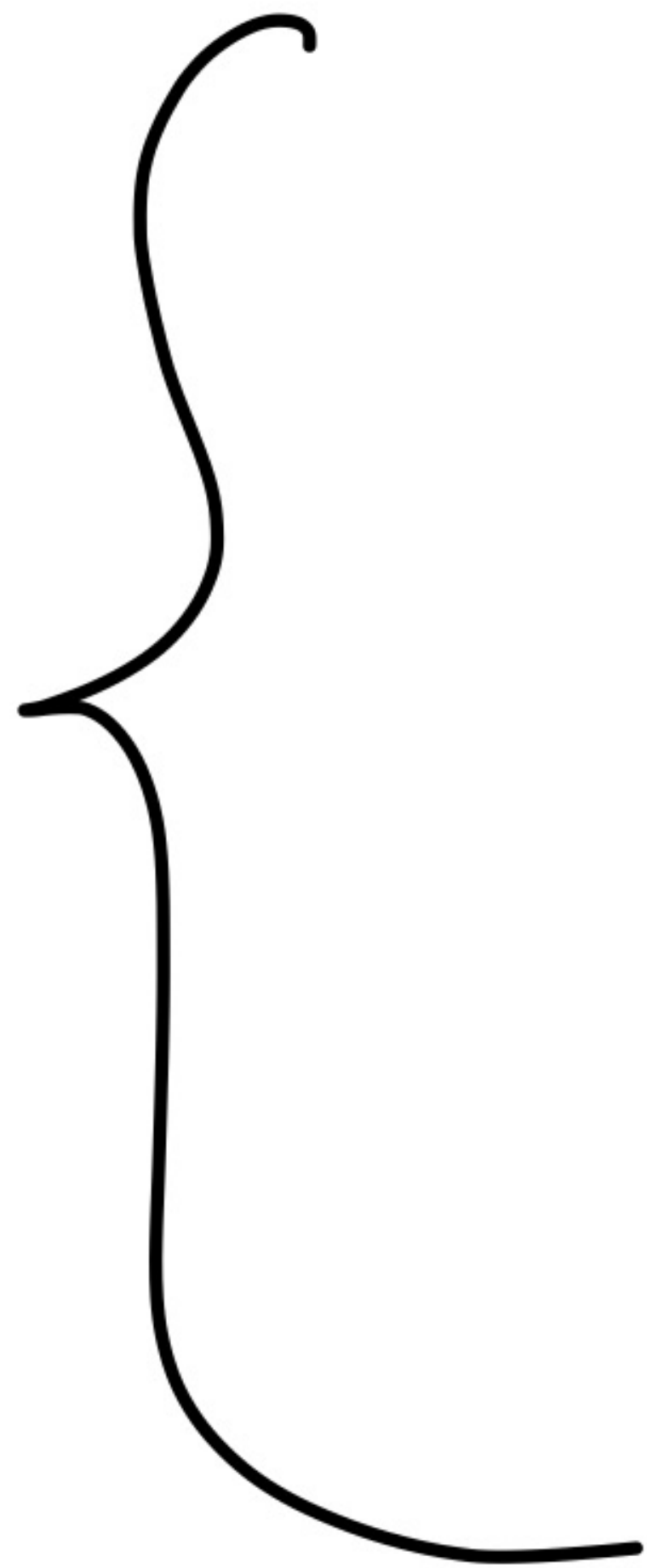


# Generative AI

Now you  
understand GPT



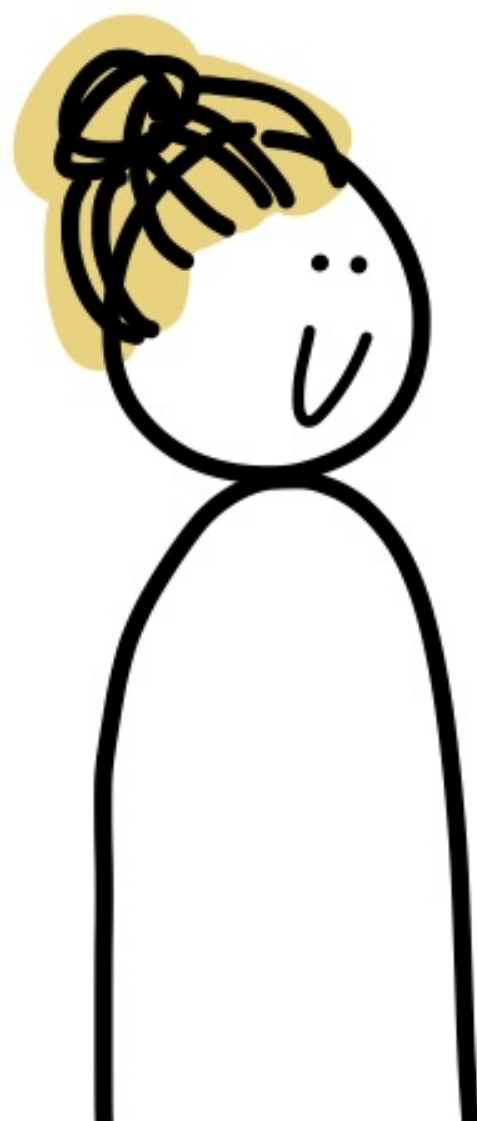
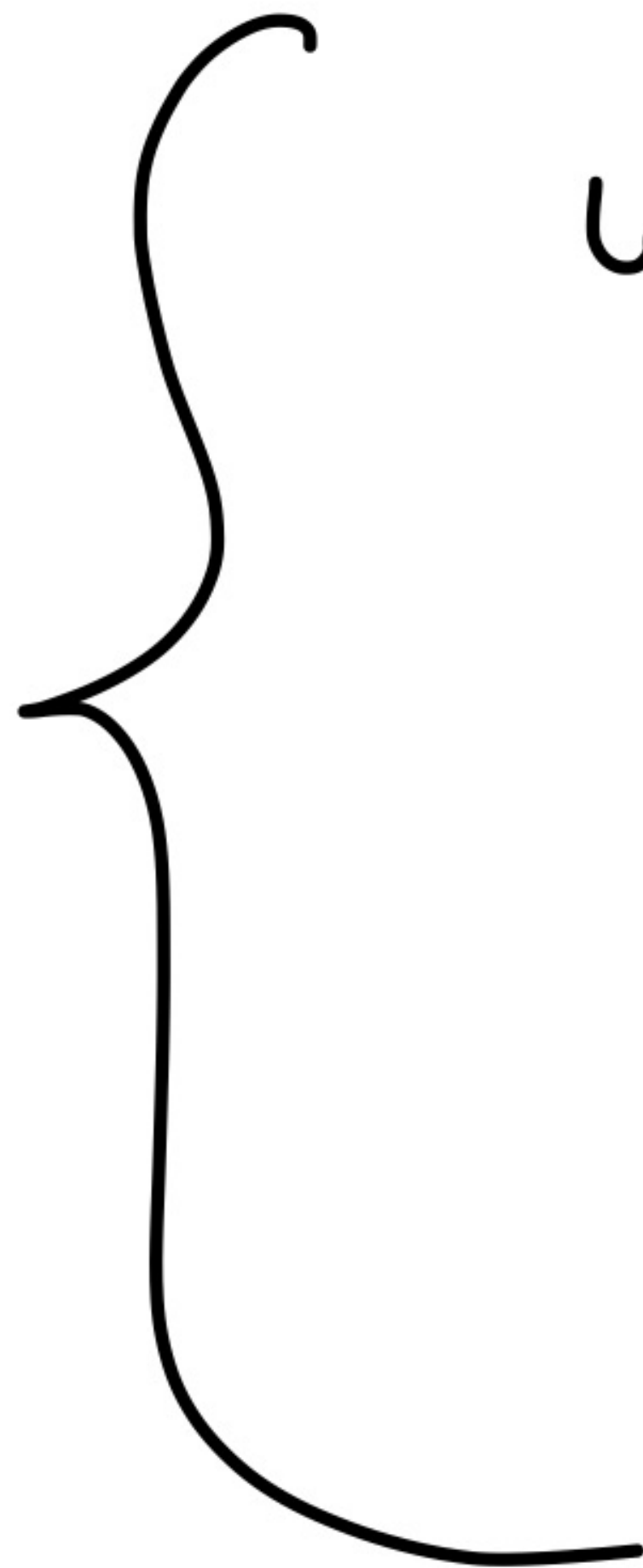
The big bad ...



The big bad ...

wolf

80%



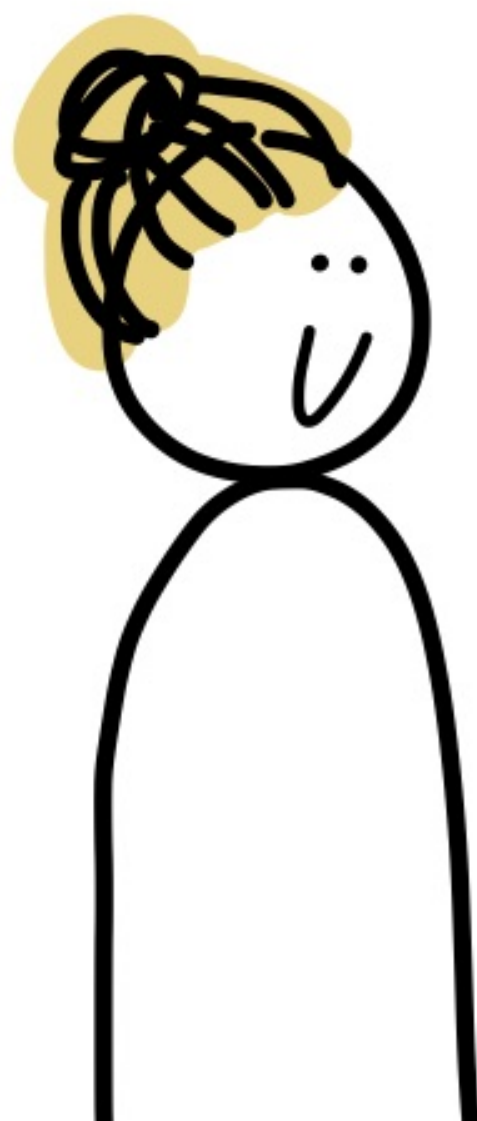
The big bad ...

wolf

80%

boss

enemy





The big bad ...

wolf

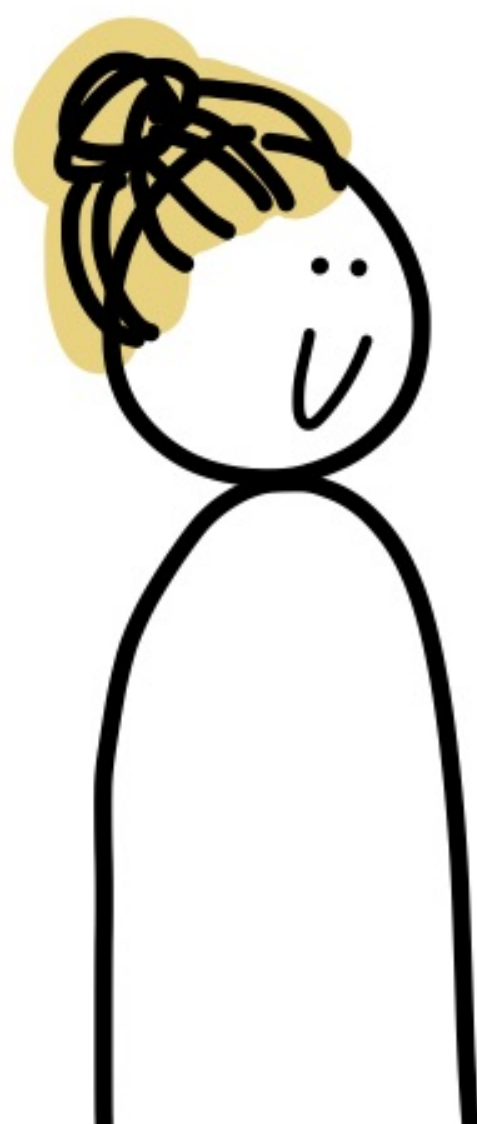
80%

boss

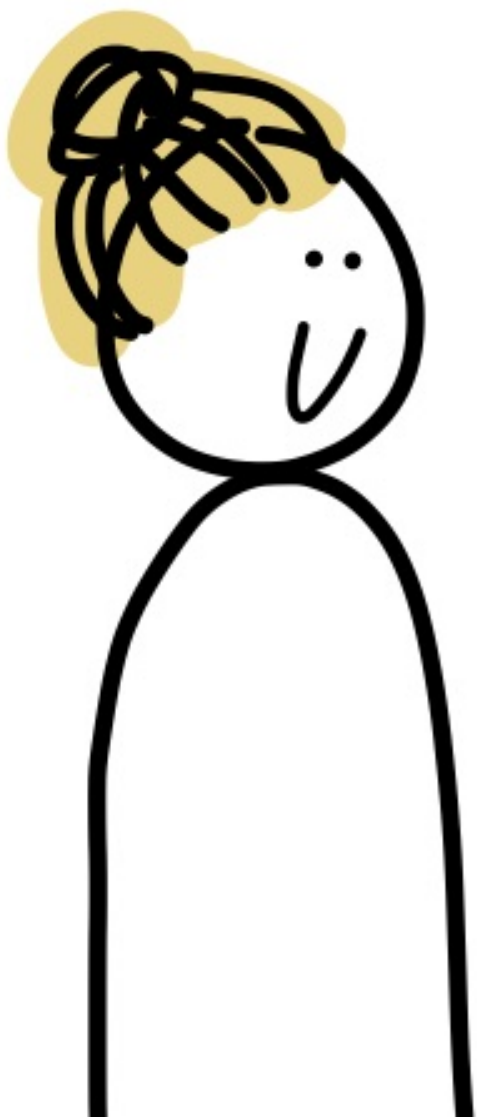
15%

enemy

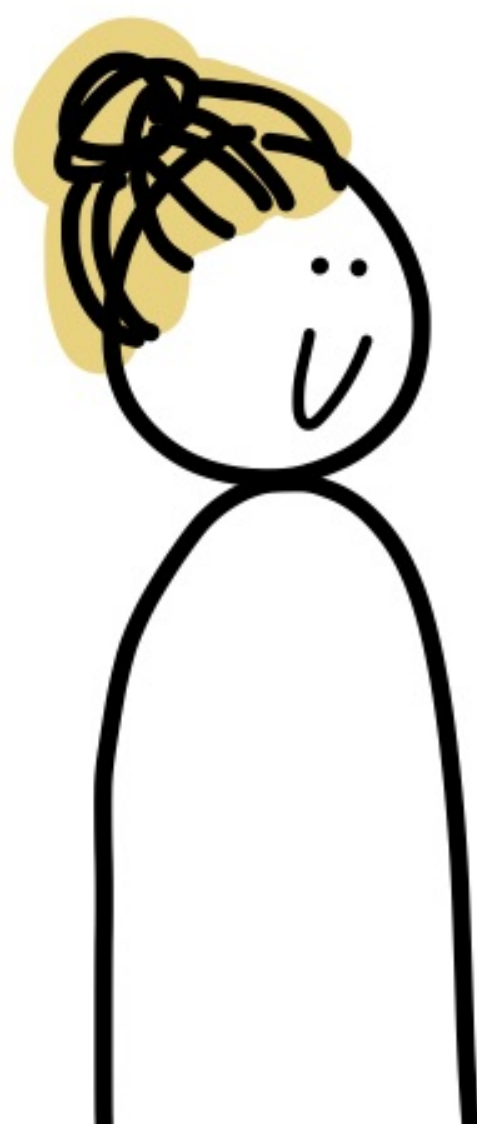
5%



Large Language Model

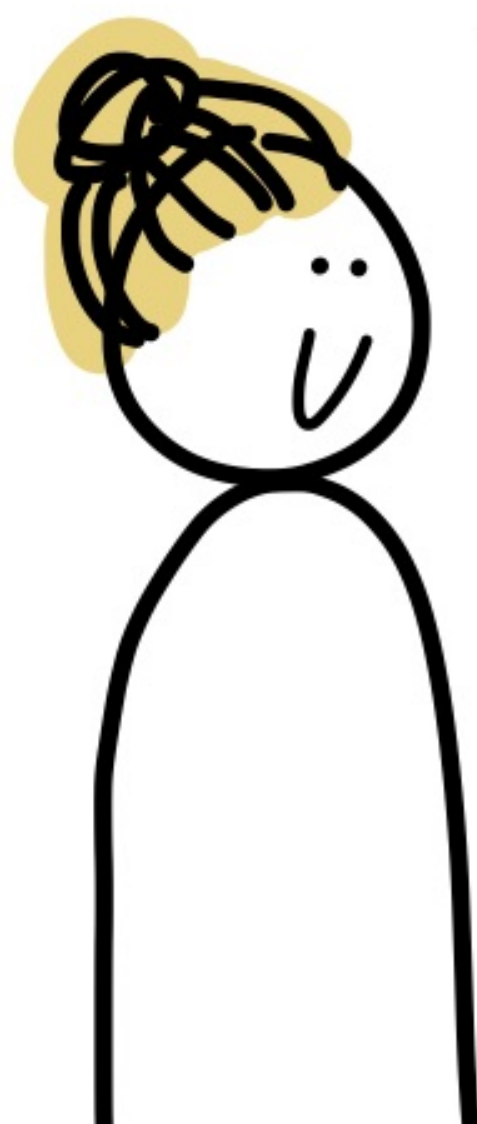


Large Language Model



~~Large Language Model~~

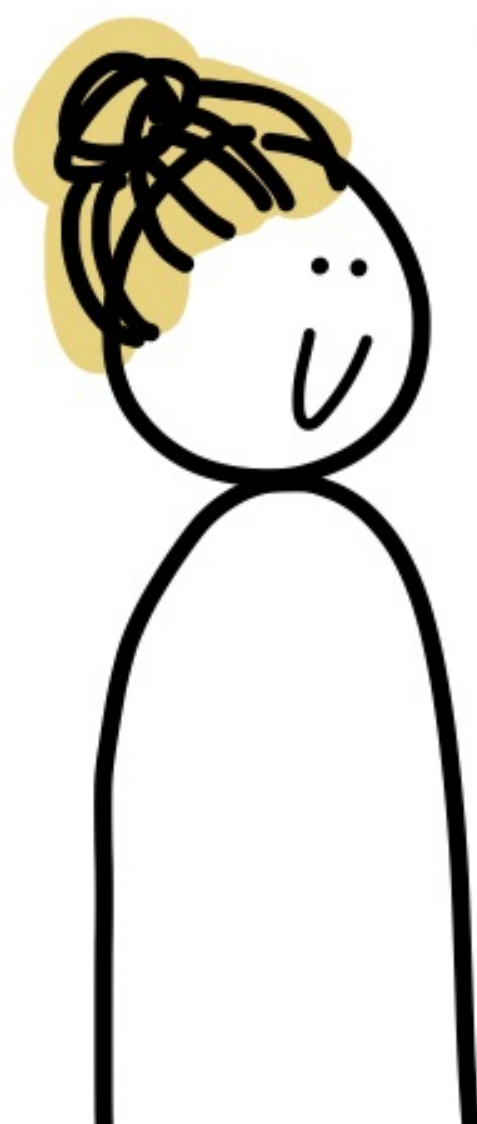
Language Continuation Model





~~Large Language Model~~

Language Continuation Model



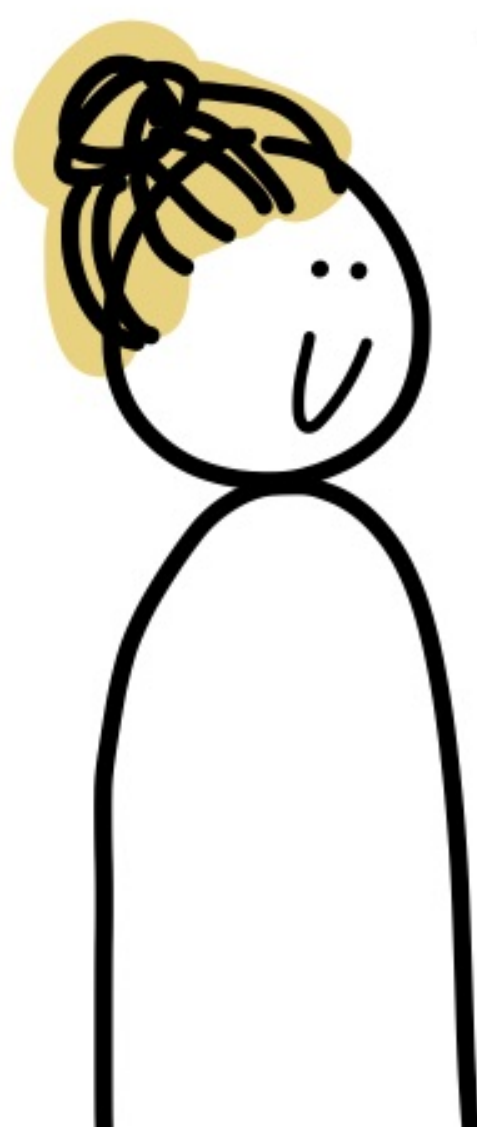
The big bad...

wolf 80%

boss 15%

enemy 5%

# Language Continuation Model



The big bad...

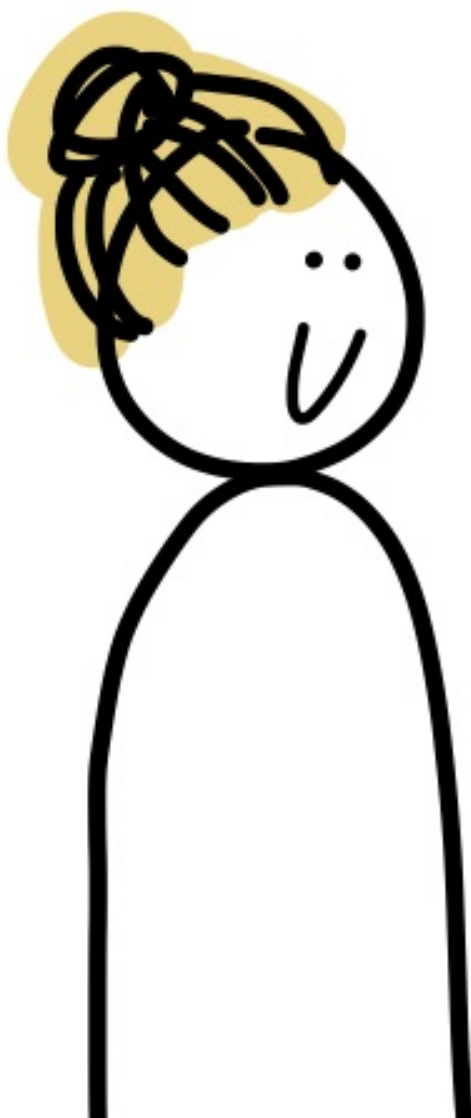
wolf 80%

boss 15%

enemy 5%

www

The Big Bad Wolf, also known as **Zeke Midas Wolf** or **Br'er Wolf**, is a fictional character from [Walt Disney's](#) cartoon short *Three Little Pigs*, directed by [Burt Gillett](#) and first released on May 27, 1933. The Wolf's voice was provided by Billy Bletcher. As in the folktale, he was a cunning and threatening menace. The short also introduced the Wolf's theme song, "[Who's Afraid of the Big Bad Wolf?](#)", written by [Frank Churchill](#).



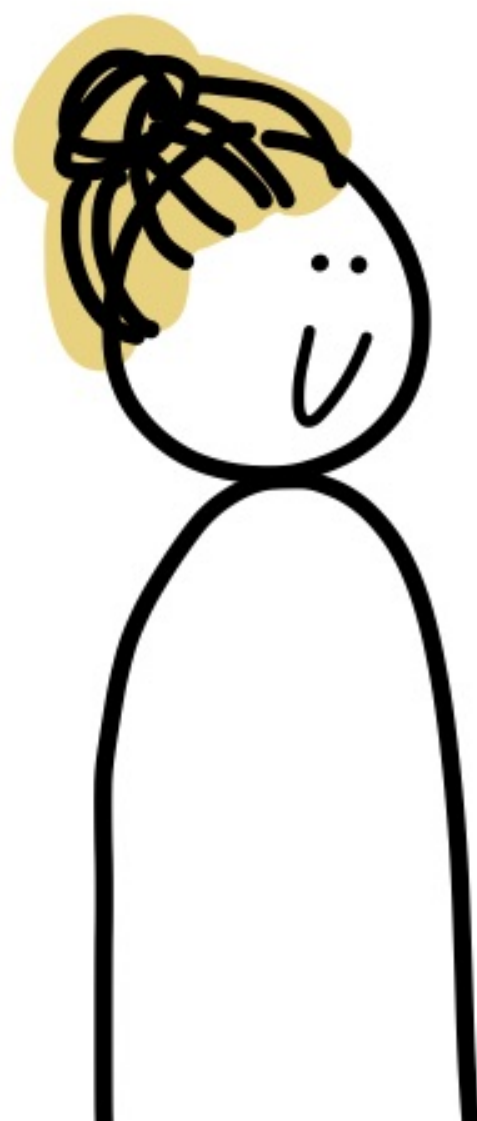
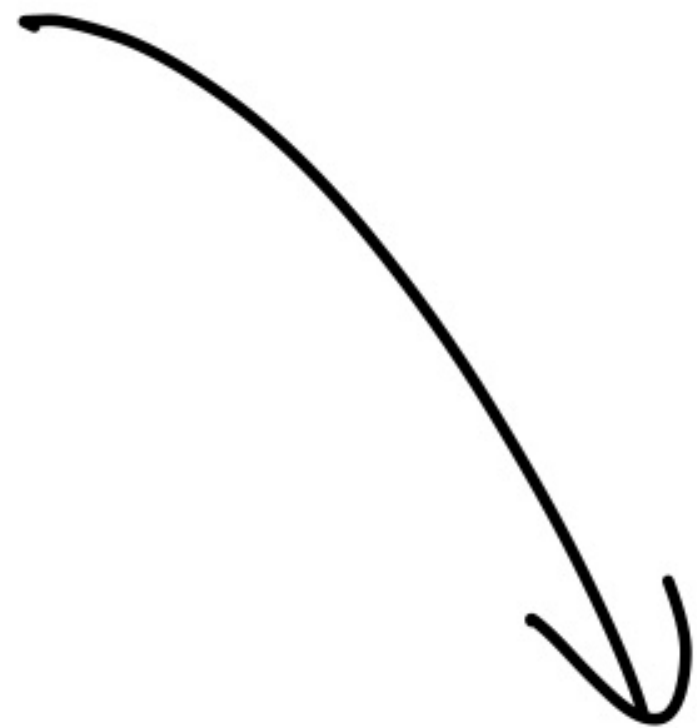
The big bad...

wolf	80%
boss	15%
enemy	5%



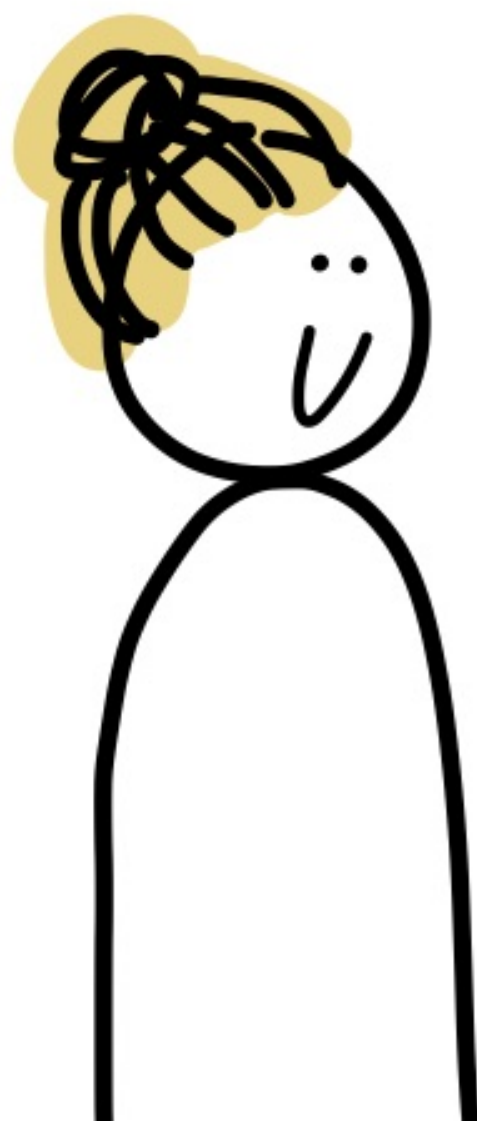
www

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The big bad... {

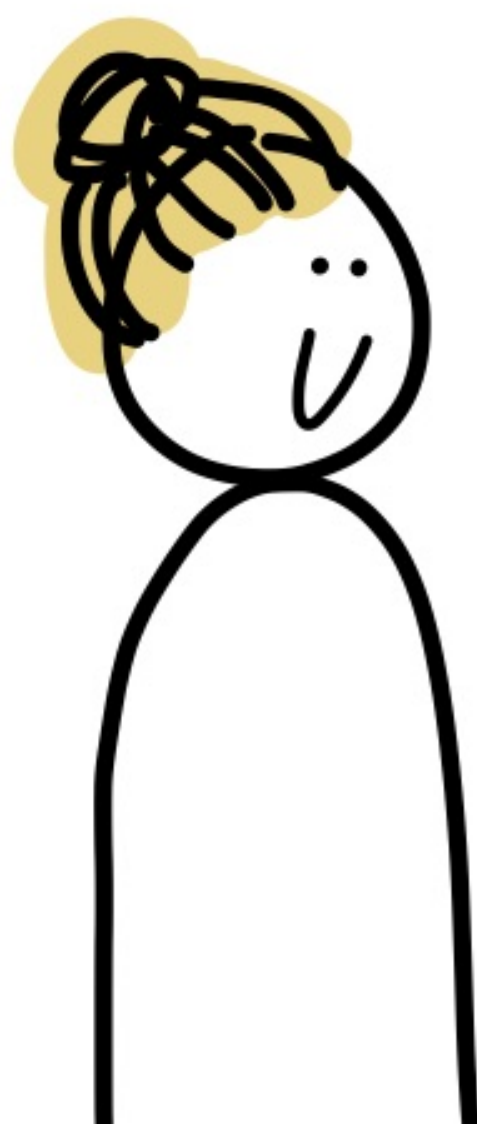
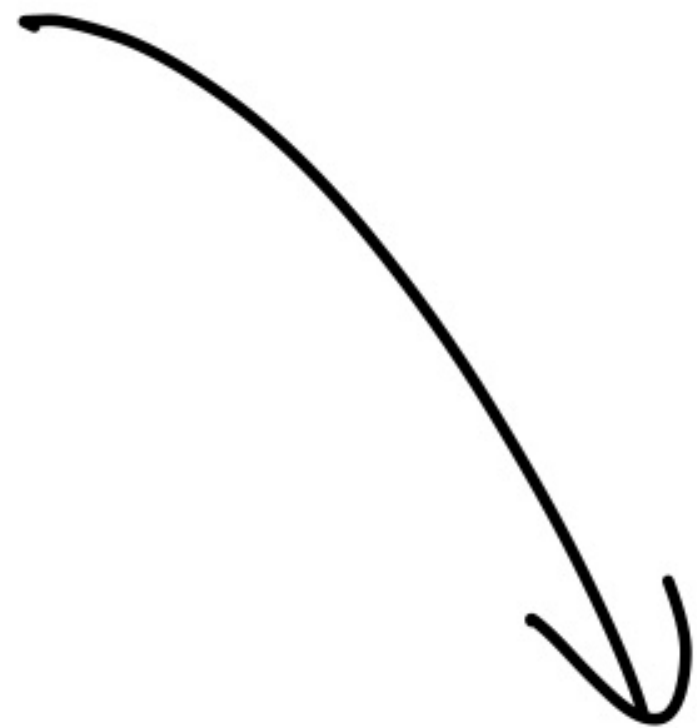
wolf	80%
boss	15%
enemy	5%



The big bad... {

wolf	85%
boss	15%
enemy	5%



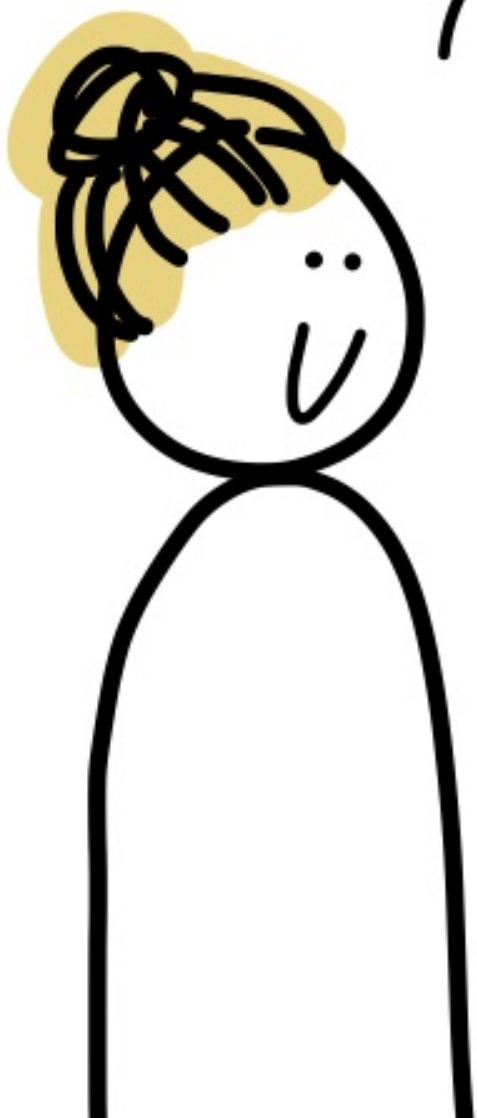


The big bad...

wolf	81%
boss	14%
enemy	5%



This is  
Artificial  
Intelligence



Symbolic

Artificial

Intelligence



Symbolic

Duck  $\in$  Bird





Symbolic

Duck  $\in$  Bird

$\forall$  Bird  $\Rightarrow$  flies



Symbolic

Duck  $\in$  Bird

$\forall$  Bird  $\Rightarrow$  flies

---



Symbolic

Duck  $\in$  Bird

$\forall$  Bird  $\Rightarrow$  flies

---

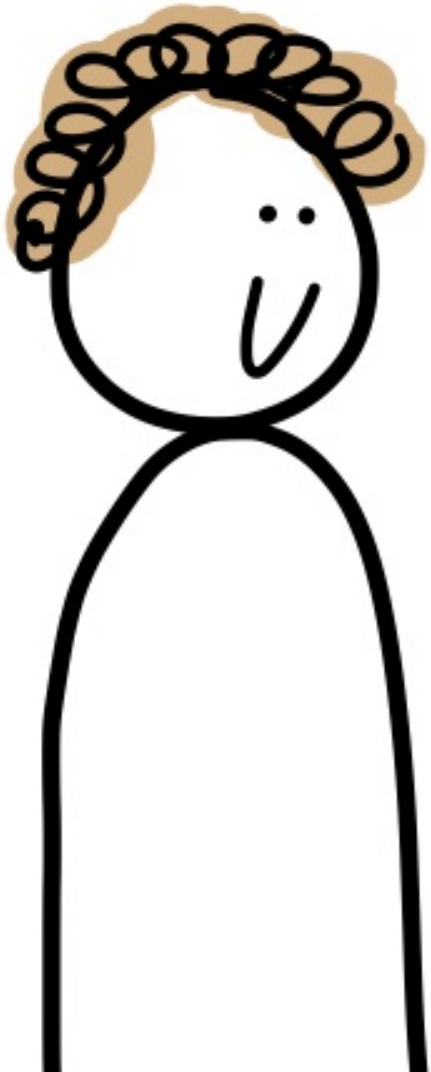
Duck flies



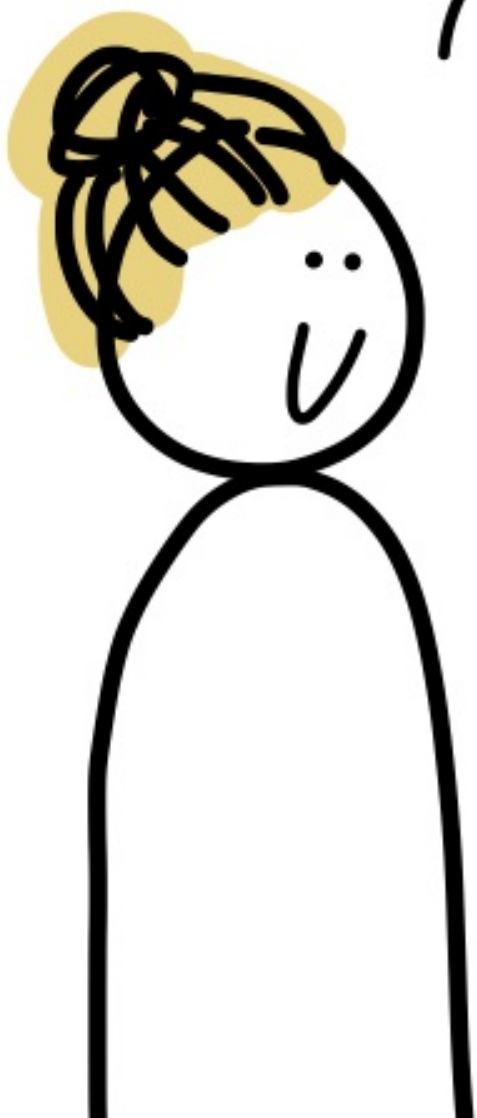


# Symbolic

Can we guarantee  
reasoning skills?



This is  
Artificial  
Intelligence





How often does a occur in ginger?

---





How often does a occur in ginger?



The letter "a" occurs twice in the word "ginger."





How often does a occur in ginger?



The letter "a" occurs twice in the word "ginger."



I don't think that is correct...?



I apologize for the mistake in my previous response. You are correct, and I made an error. The letter "a" occurs only once in the word "ginger." Thank you for pointing that out. If you have any more questions or need further assistance, please feel free to ask.





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Could you still be wrong?

---



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Could you still be wrong?



I apologize for any confusion in my previous responses. Let's count the occurrences of the letter "a" in the word "ginger" again:



"Ginger"

There is only one "a" in the word "ginger." If you believe there might be a different count, please let me know, and I'll be happy to assist further.





Could you still be wrong?



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I apologize for any confusion earlier. It appears that I made a mistake in my previous responses. The word "ginger" does not contain the letter "a." Thank you for bringing this to my attention, and I appreciate your patience. If you have any more questions or need assistance with anything else, please feel free to ask.



AI

Duck  $\in$  Bird

$\forall$  Bird  $\Rightarrow$  flies

---

Duck flies



# All

Duck  $\in$  Bird

$\forall$  Bird  $\Rightarrow$  flies

---

Duck flies

# Also All

How often does a occur in ginger?

The letter "a" occurs twice in the word "ginger."

# AI

Duck  $\in$  Bird

$\forall$  Bird  $\Rightarrow$  flies

---

Duck flies

Category

# Also AI

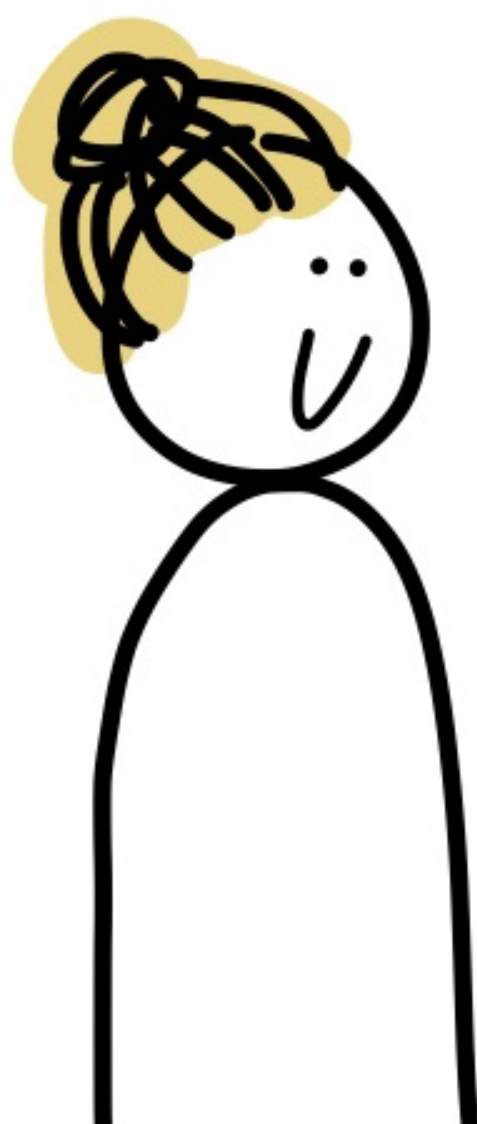
How often does a occur in ginger?

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Error

Artificial ✓

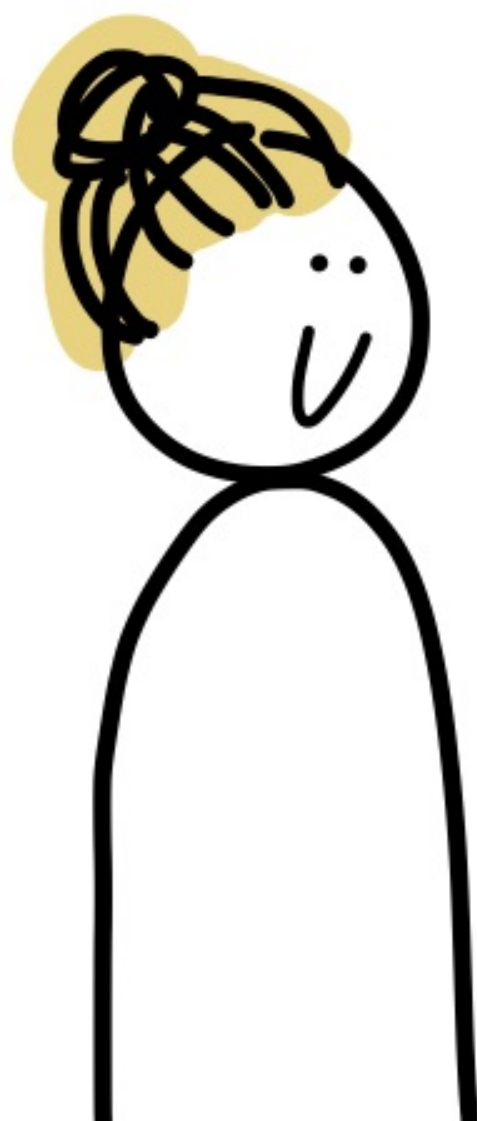
Intelligence



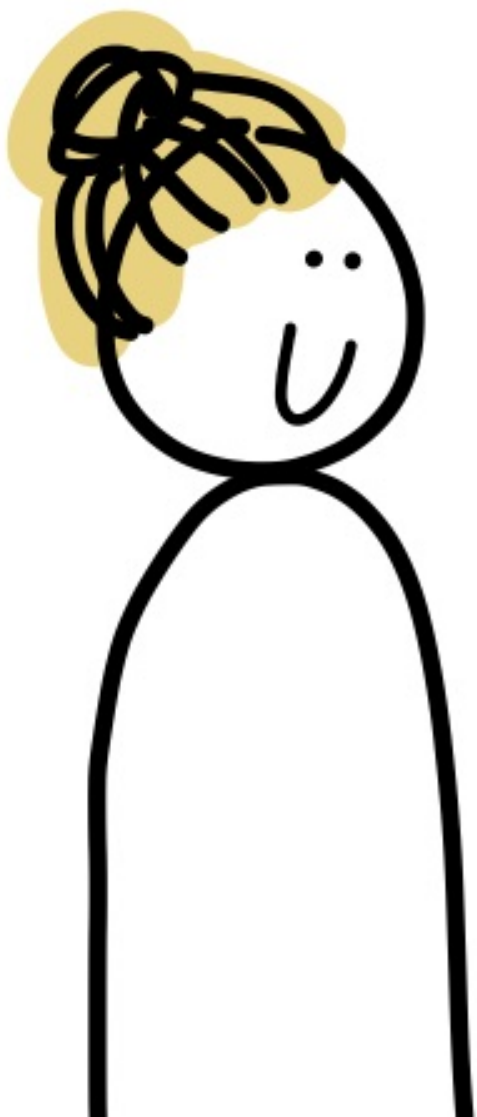


Artificial ✓

Intelligence ?

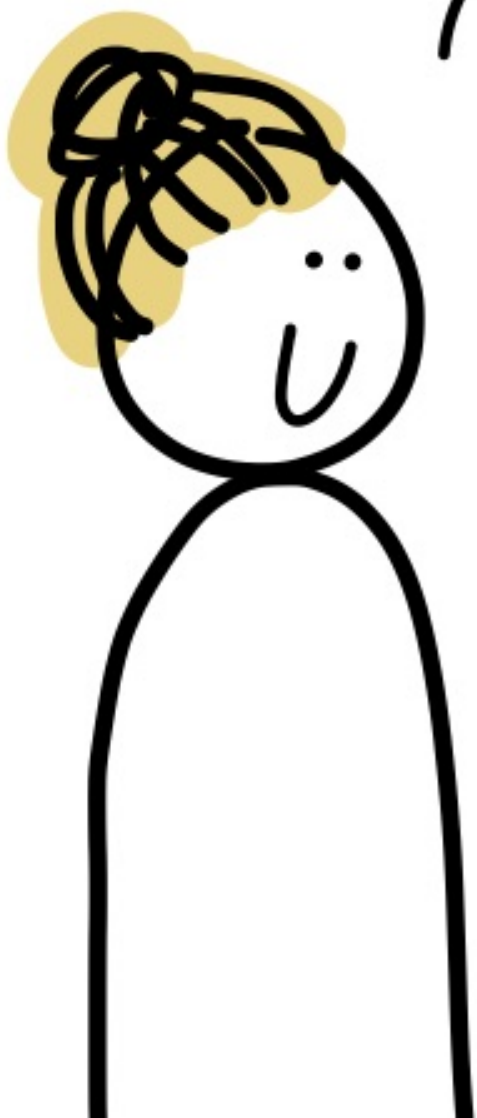


# Language Continuation Model



# Language Continuation Model

It can continue... language!

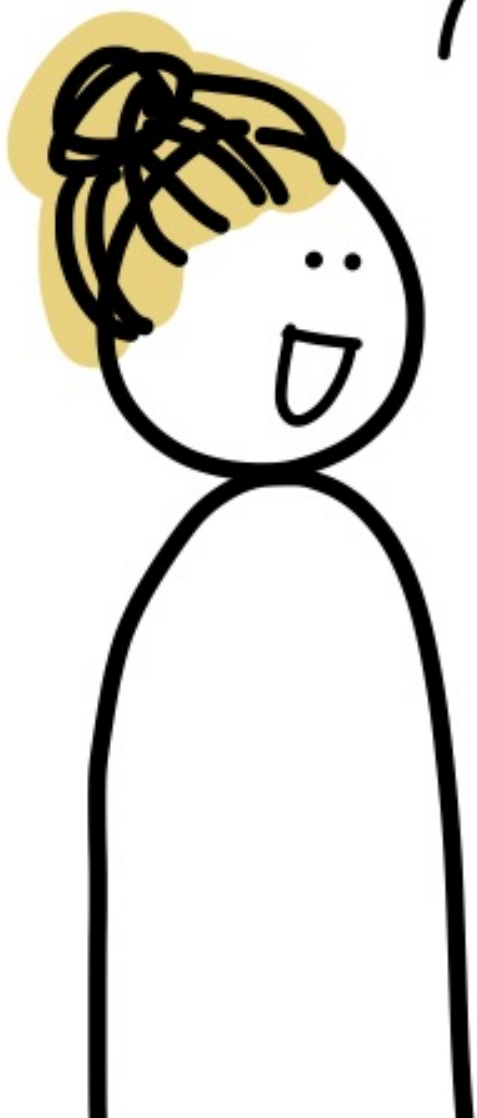




# Language Continuation Model

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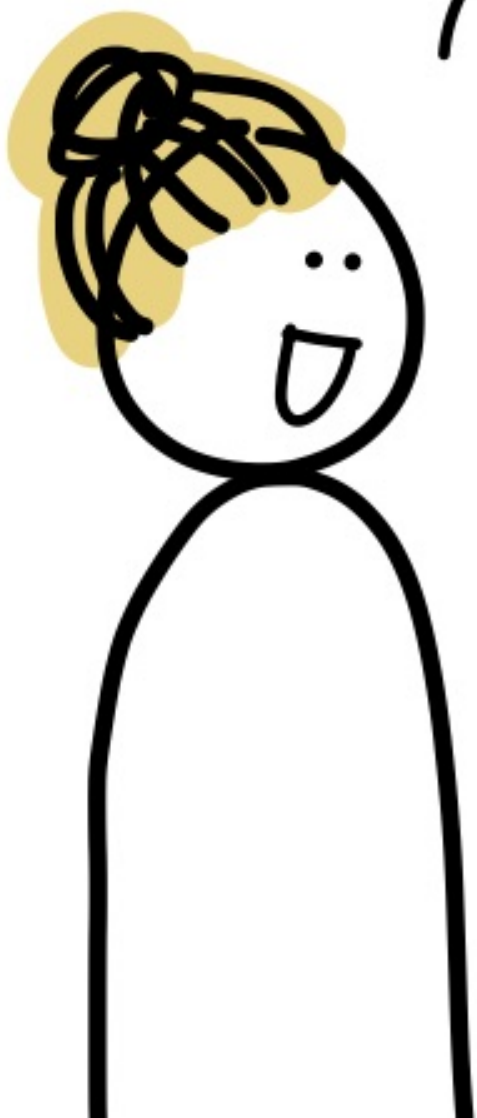
surprisingly well



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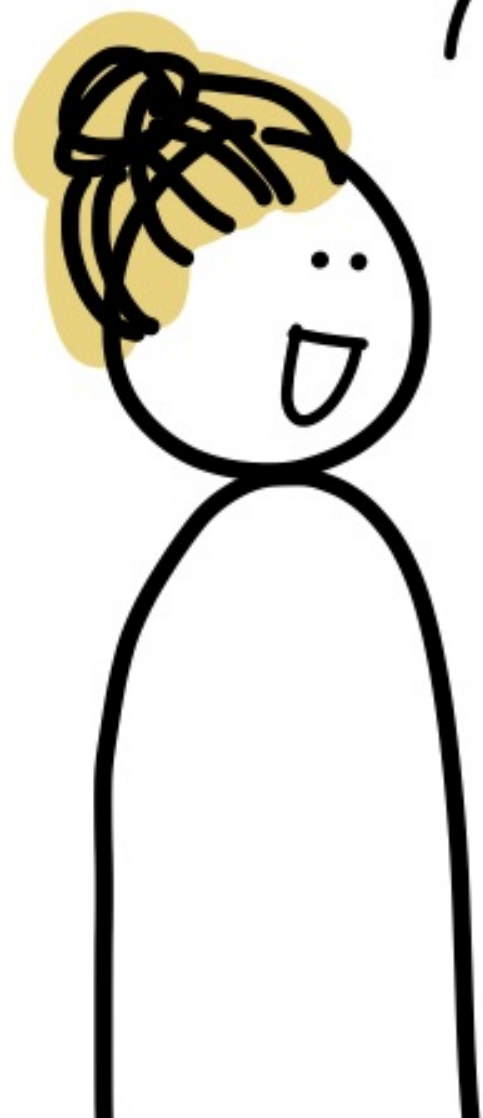
Could you still be wrong?



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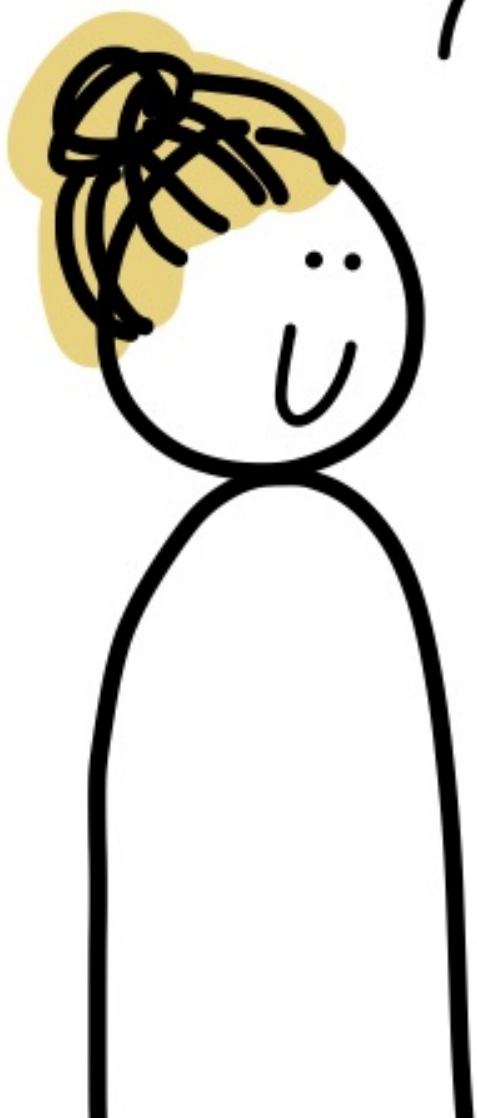
surprisingly well



The big bad...	wolf	80%
	boss	15%
	enemy	5%

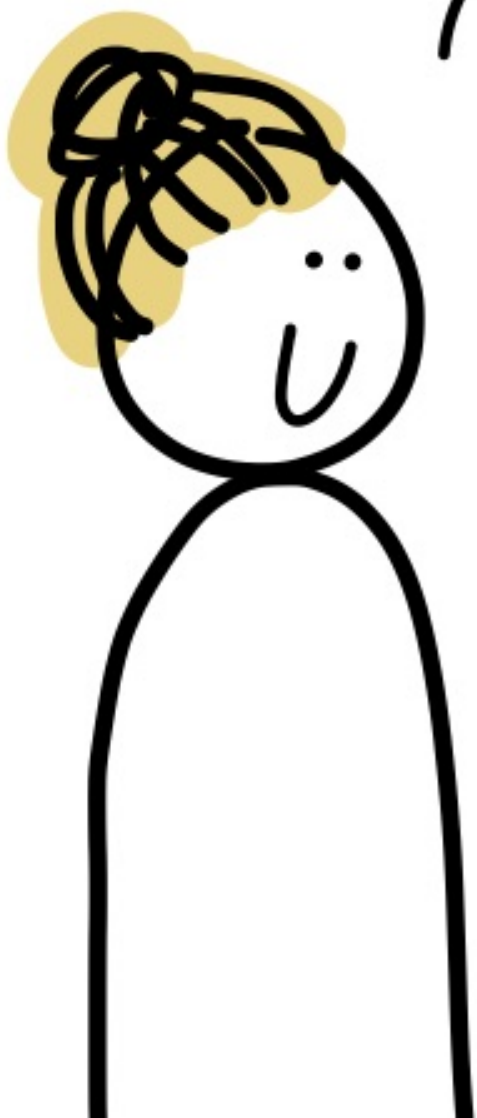
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It can continue... language!



# Language Continuation Model

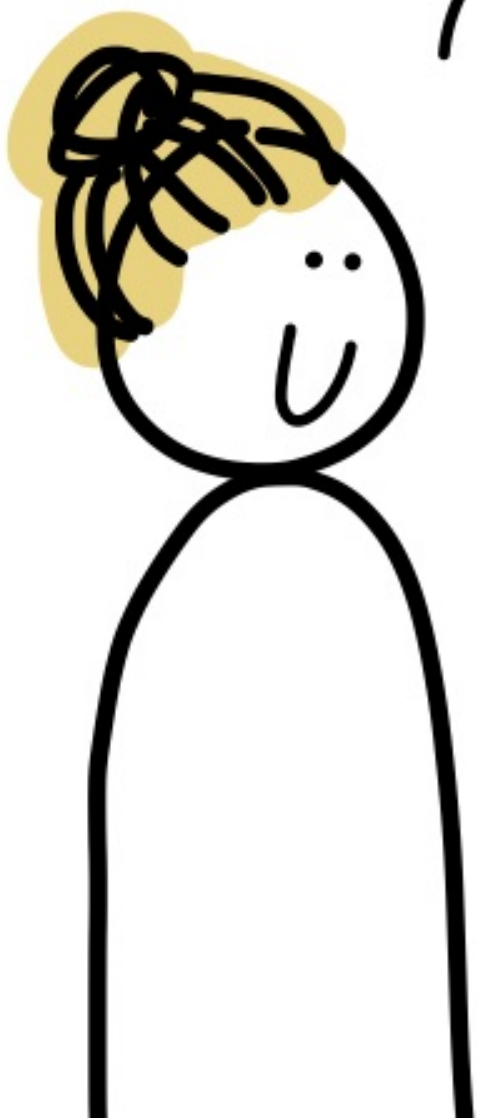
It can't ~~reason~~





# Language Continuation Model

It can't ~~reason~~ reliably

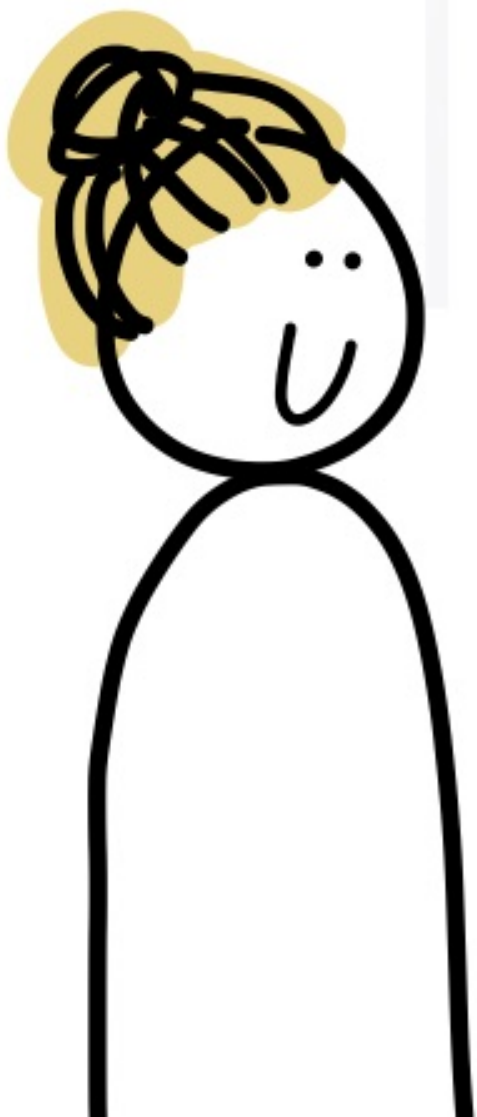


# Language Continuation Model

---



How many e's are in Felienne



# Language Continuation Model

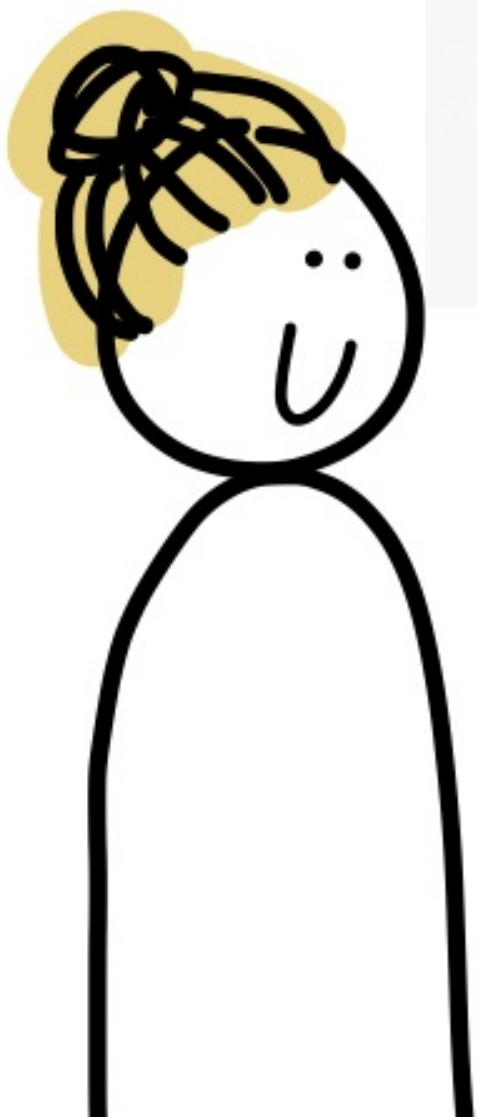
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How many e's are in Felienne



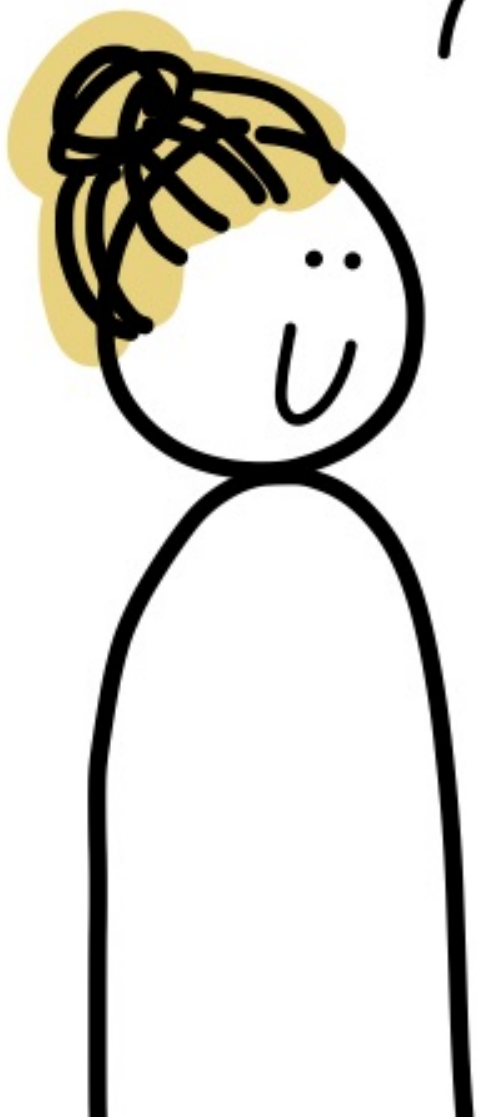
There are three occurrences of the letter 'e' in the name "Felienne."





# Language Continuation Model

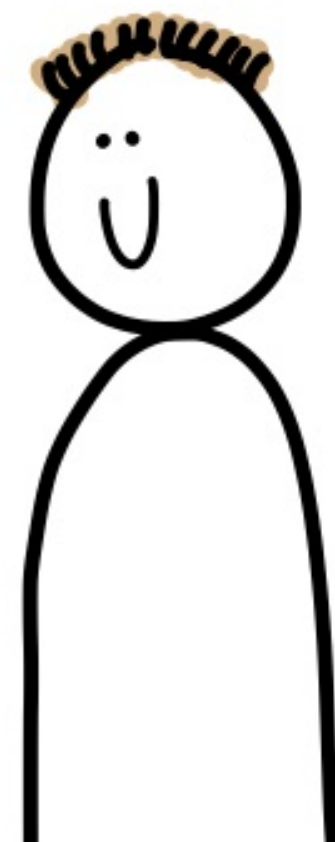
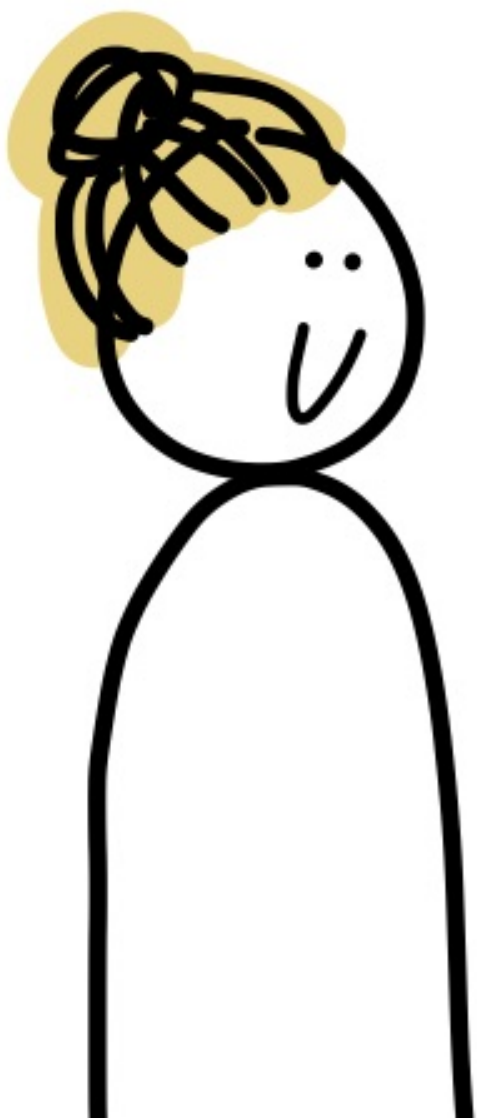
It can't ~~think~~



# Language Continuation Model

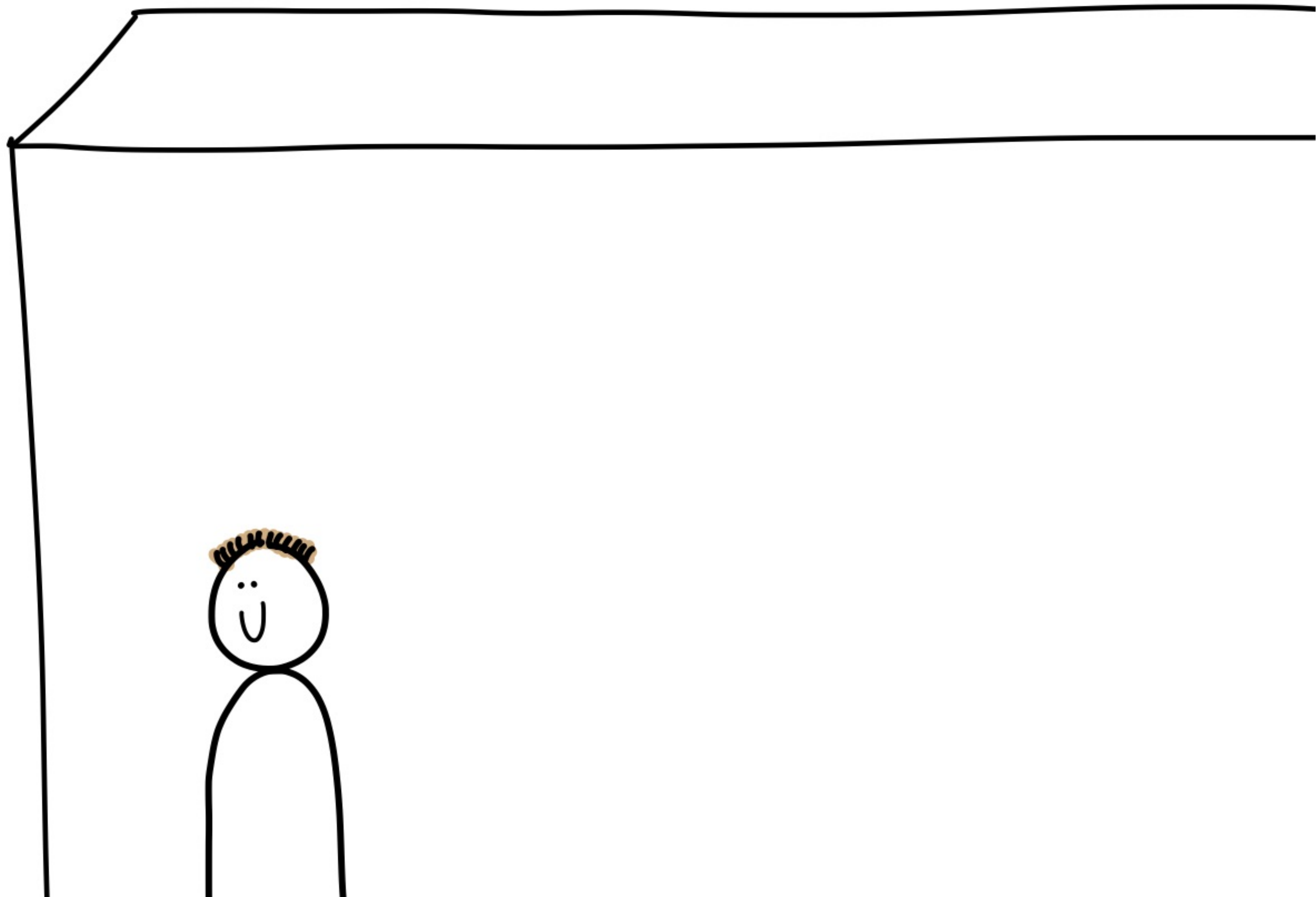
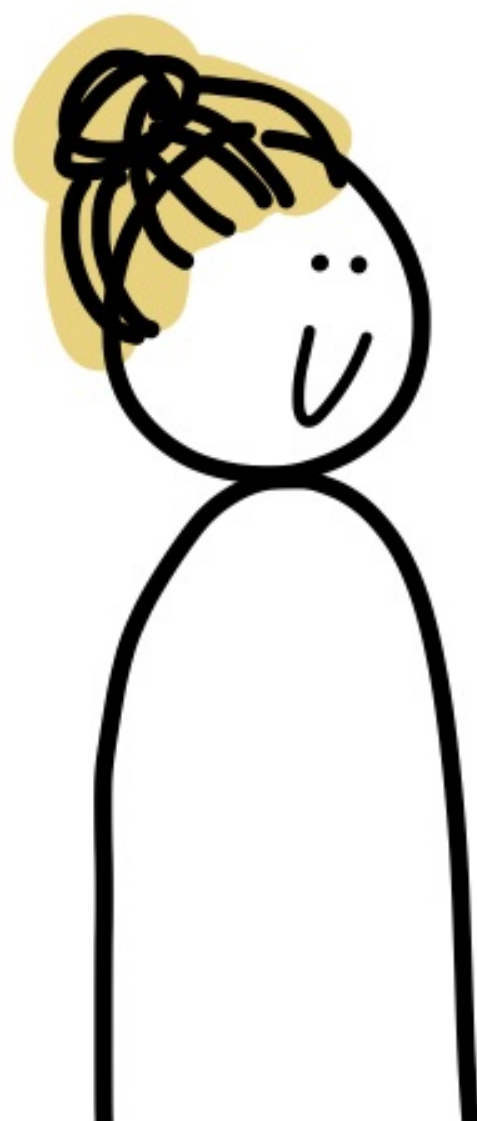


"Chinese room"

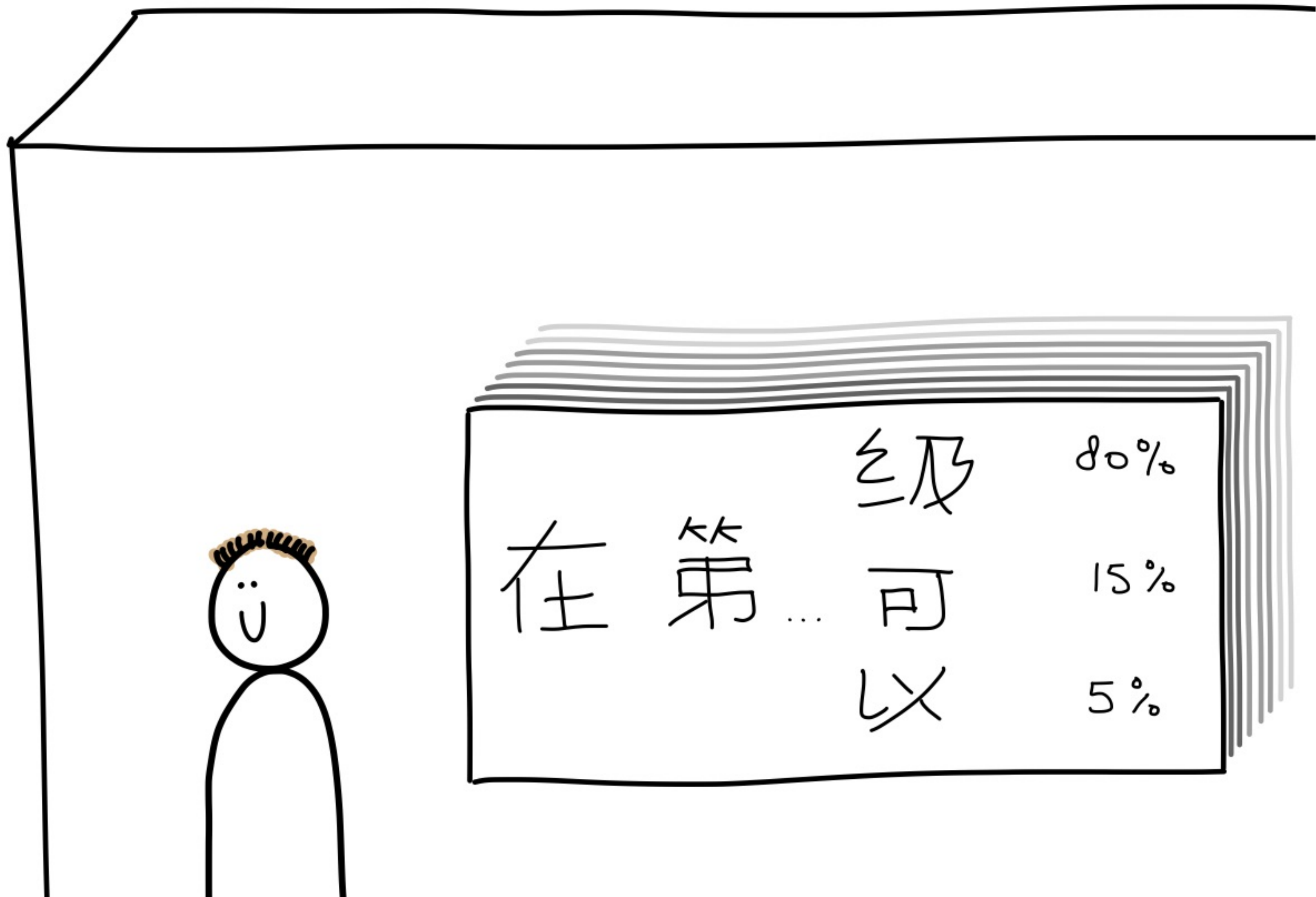
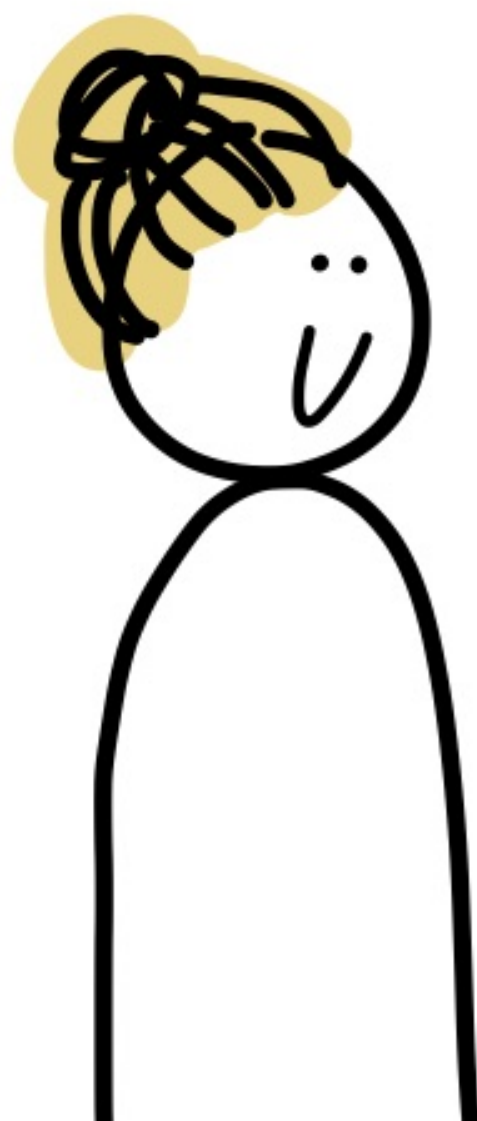




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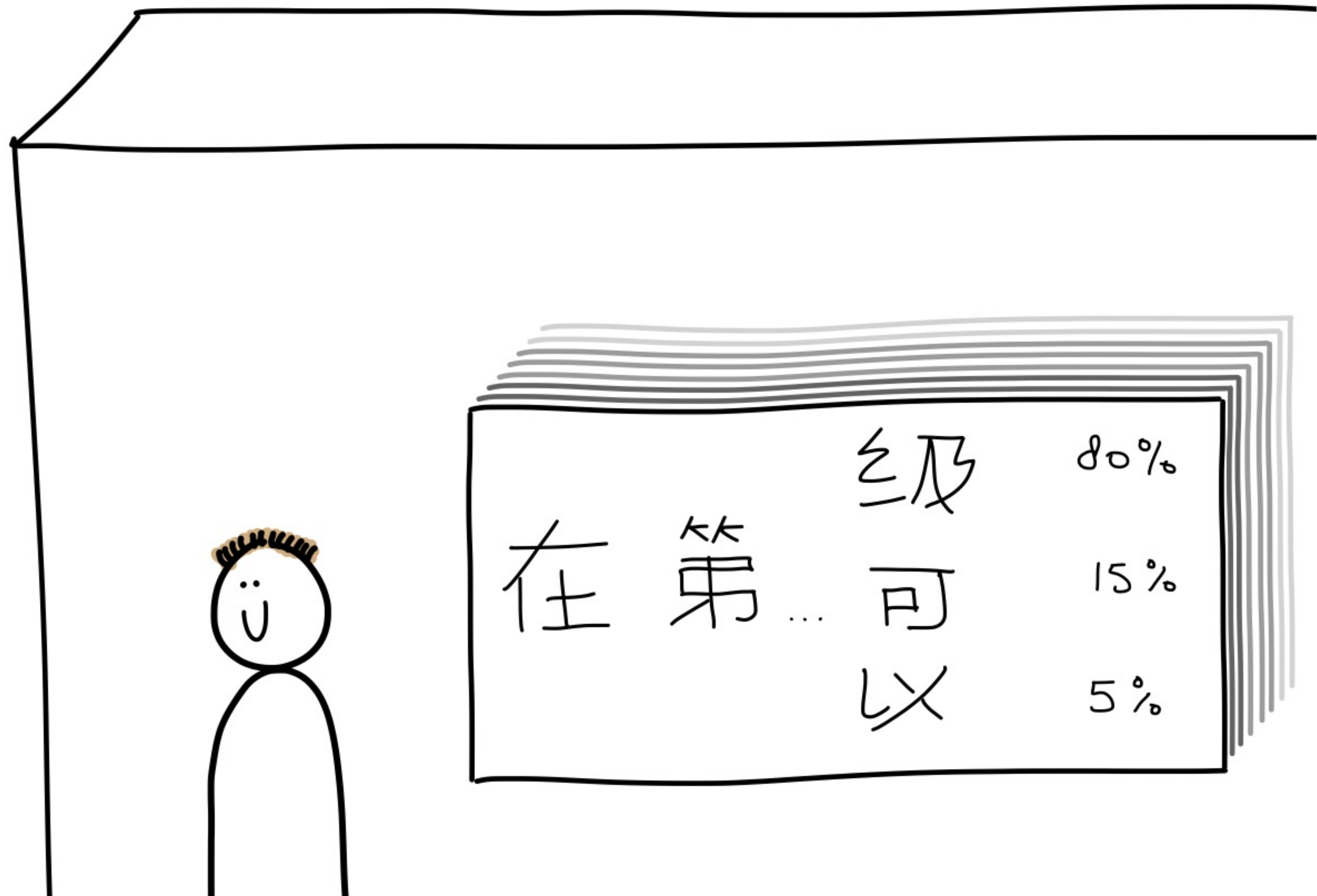


# "Chinese room"



在	第	级	80%
在	第... <sup>KK</sup>	可	15%
		以	5%

# "Chinese room"

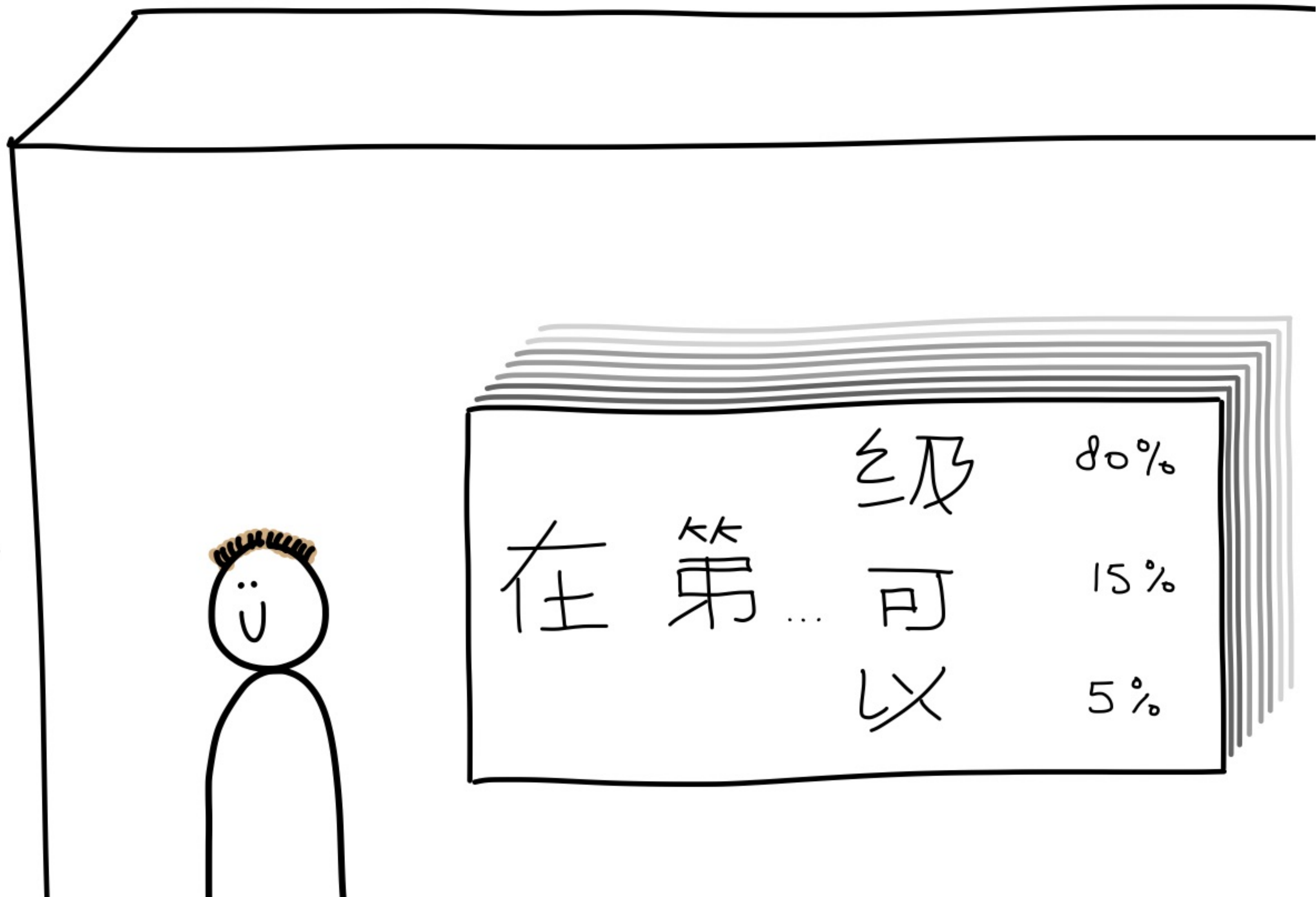




# "Chinese room"



级

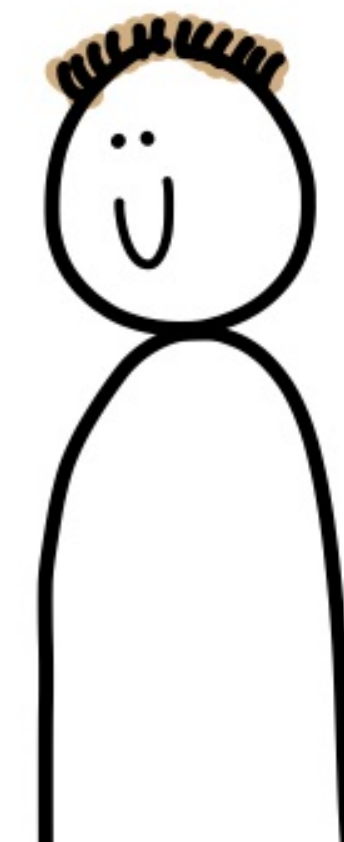


# "Chinese room"



级

Can't think in Chinese

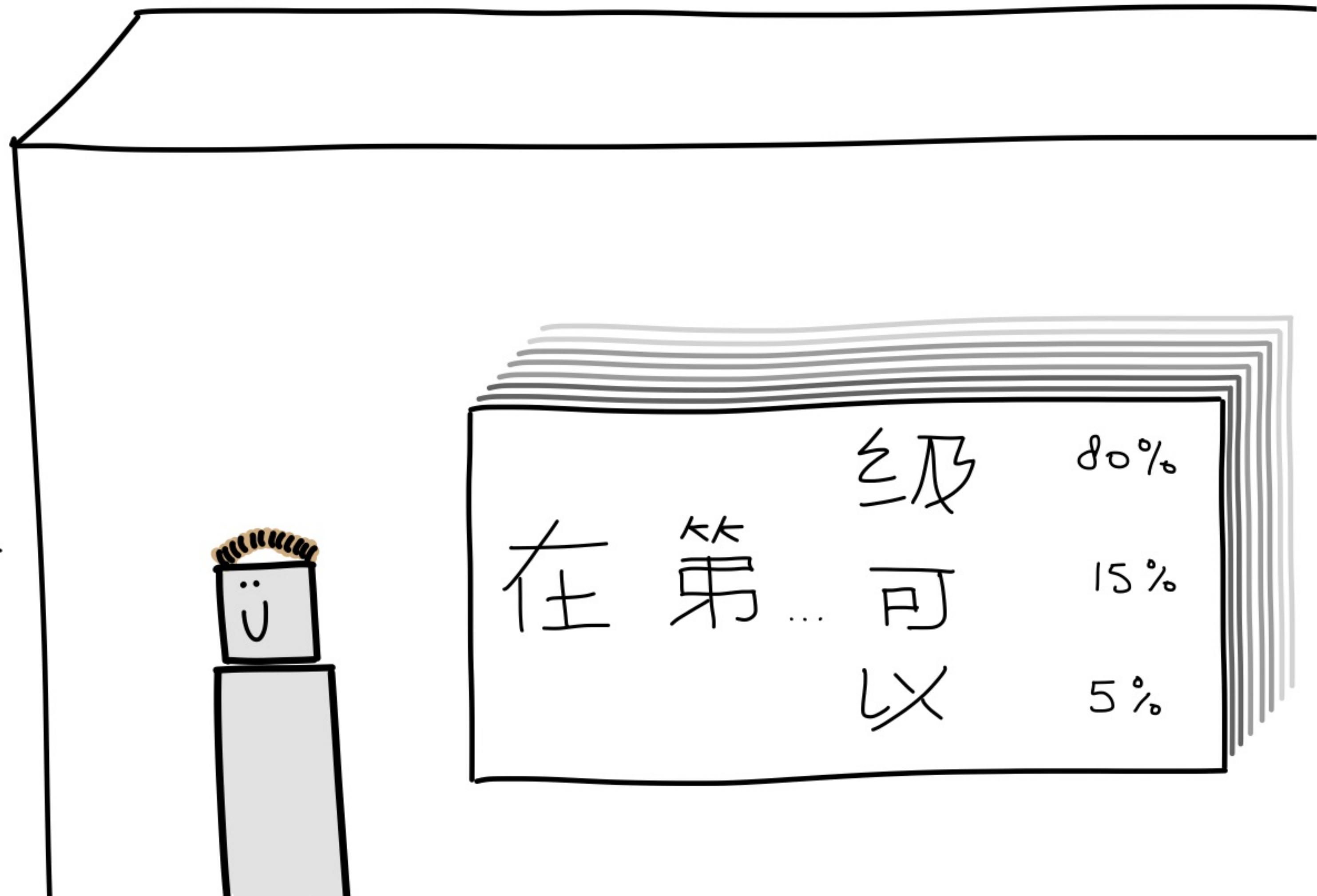


在 第 <sup>KK</sup>	级	80%
在 第 <sup>KK</sup> ...	可	15%
	以	5%

# "Chinese room"



级



在第	级	80%
在第...	可	15%
	以	5%



# "Chinese room"



级

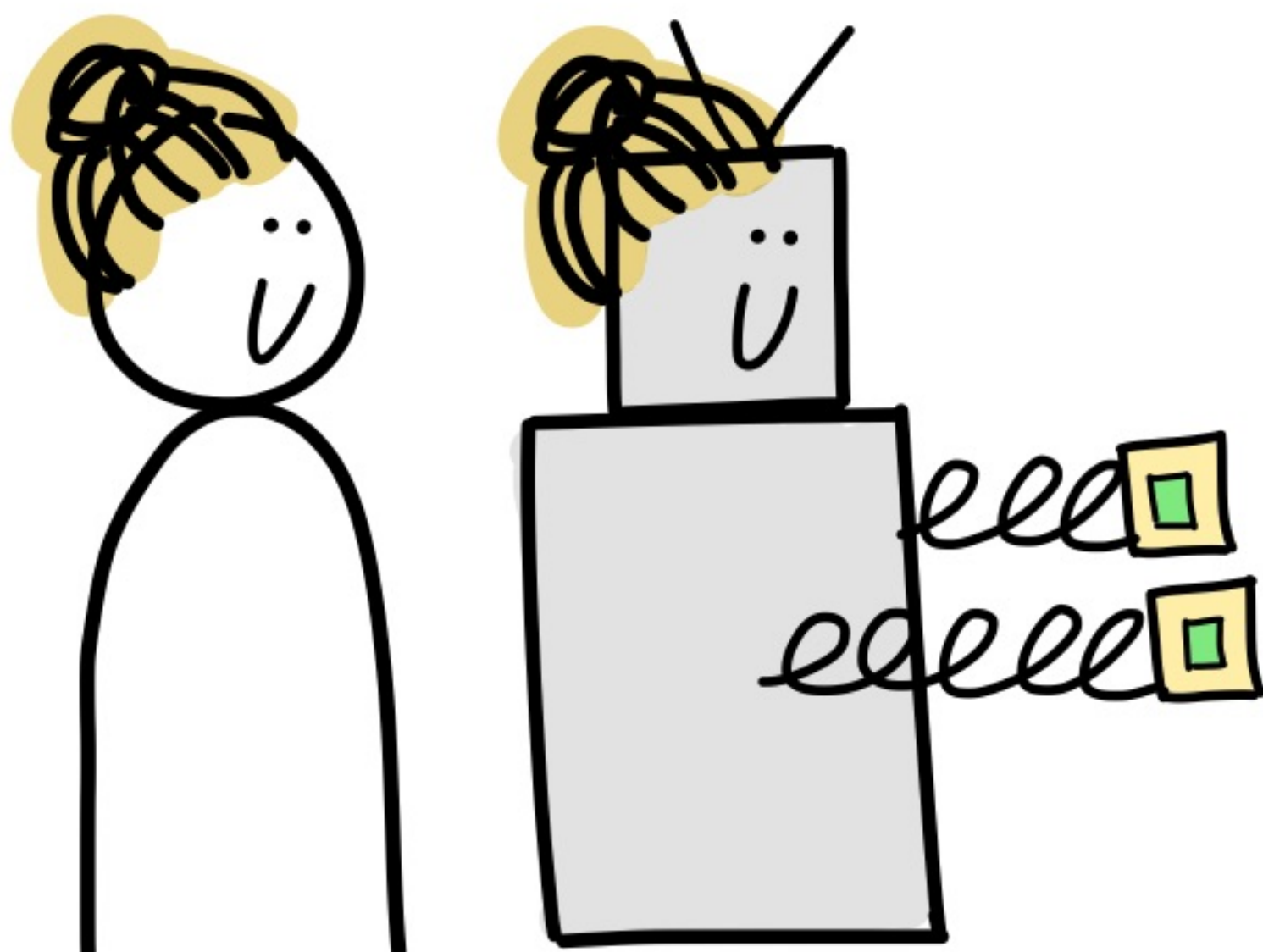
Can't think in Chinese



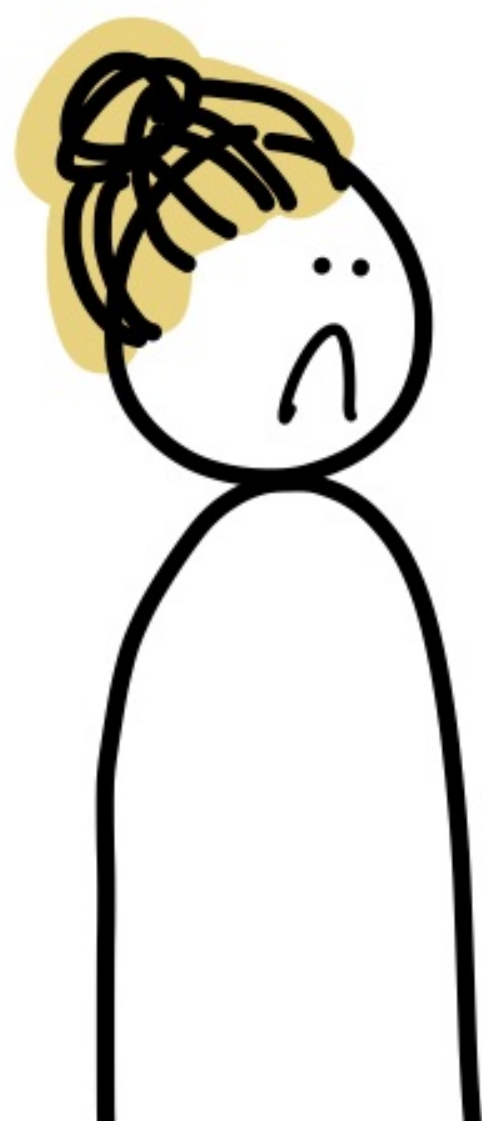
在第	级	80%
在第...	可以	15%
	以	5%



# Marathon



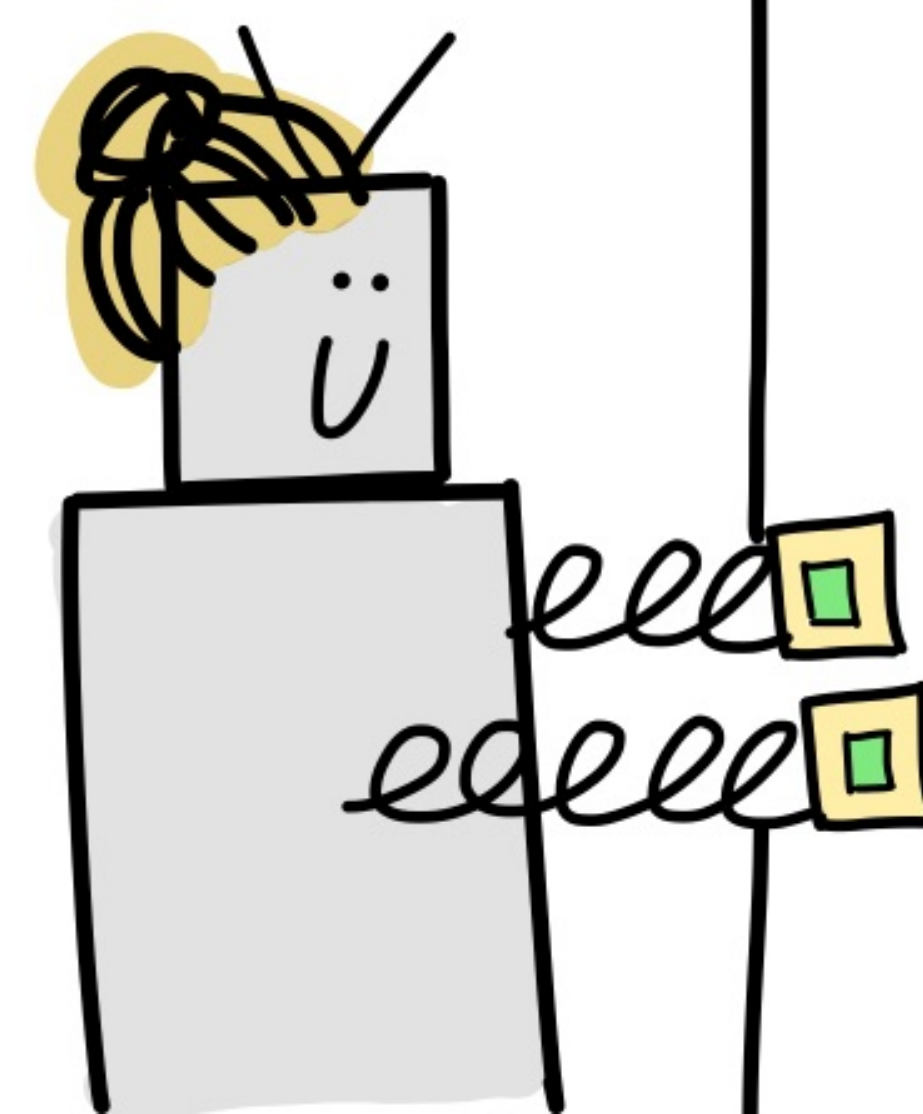
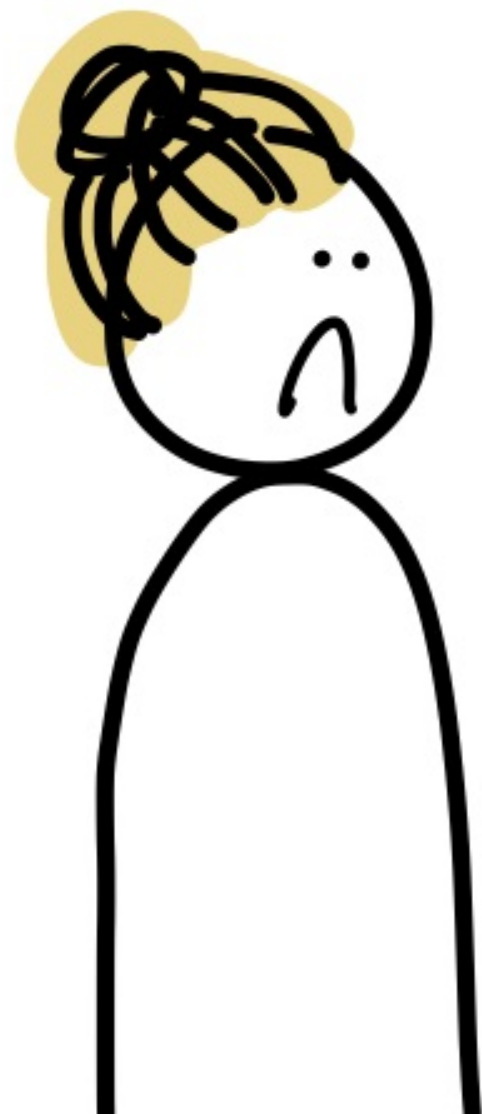
# Marathon



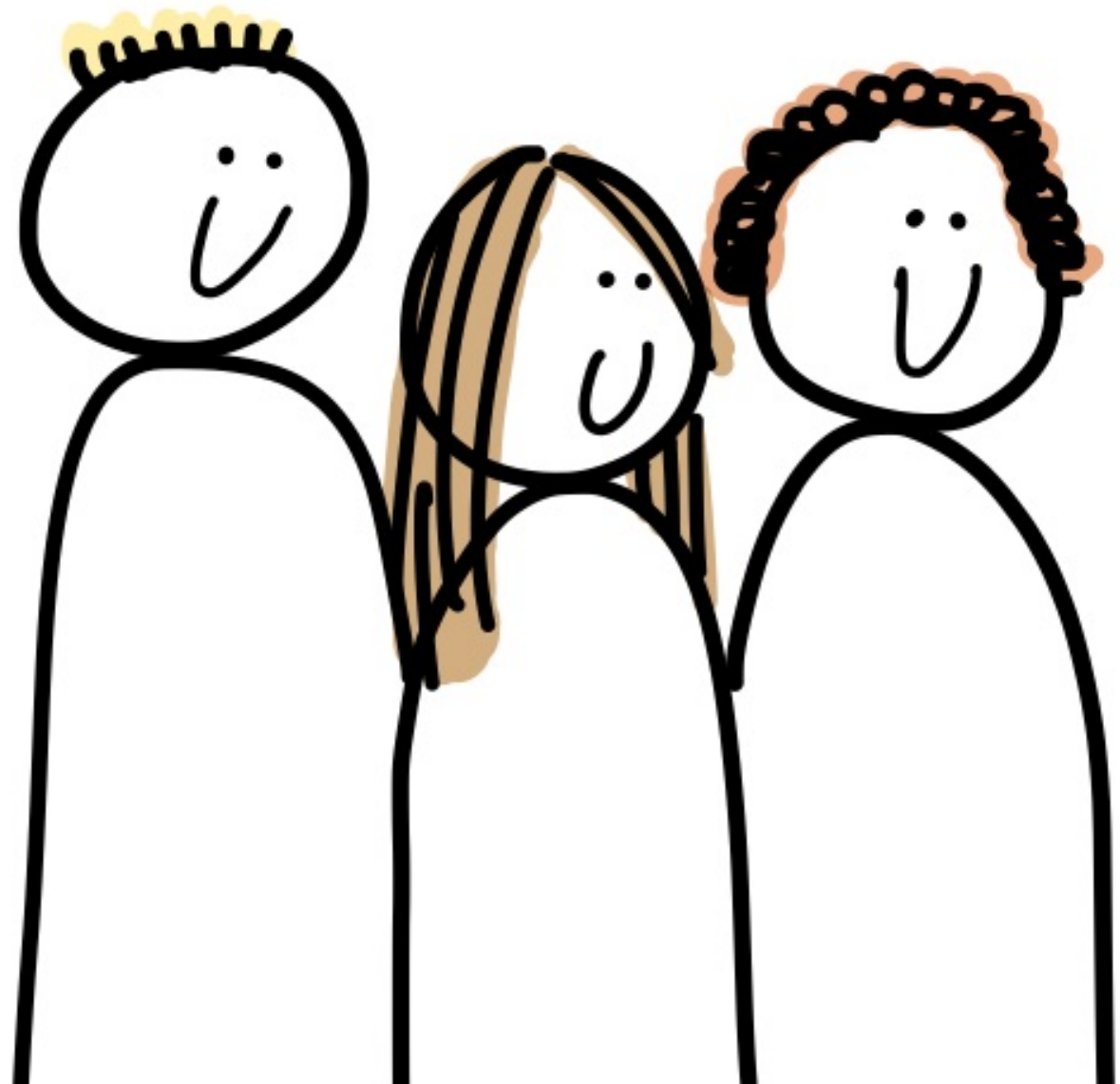
Marathon

This is not it

FINISH

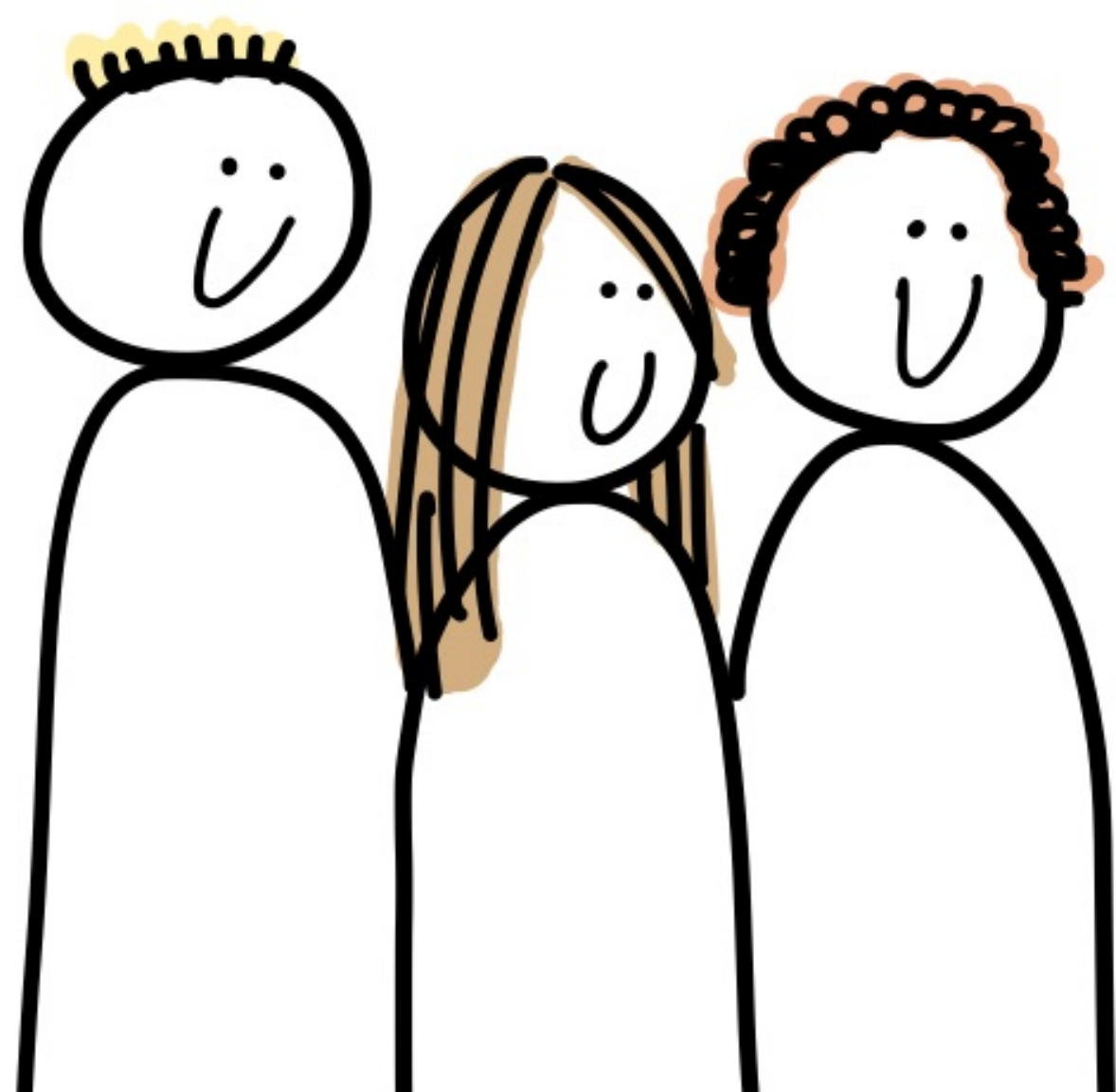






FINISH

Essay  
Essay on  
the history  
of techno-  
logy in the  
Netherlands.



This is not it

FINISH

Essay  
Essay on  
the history  
of techno-  
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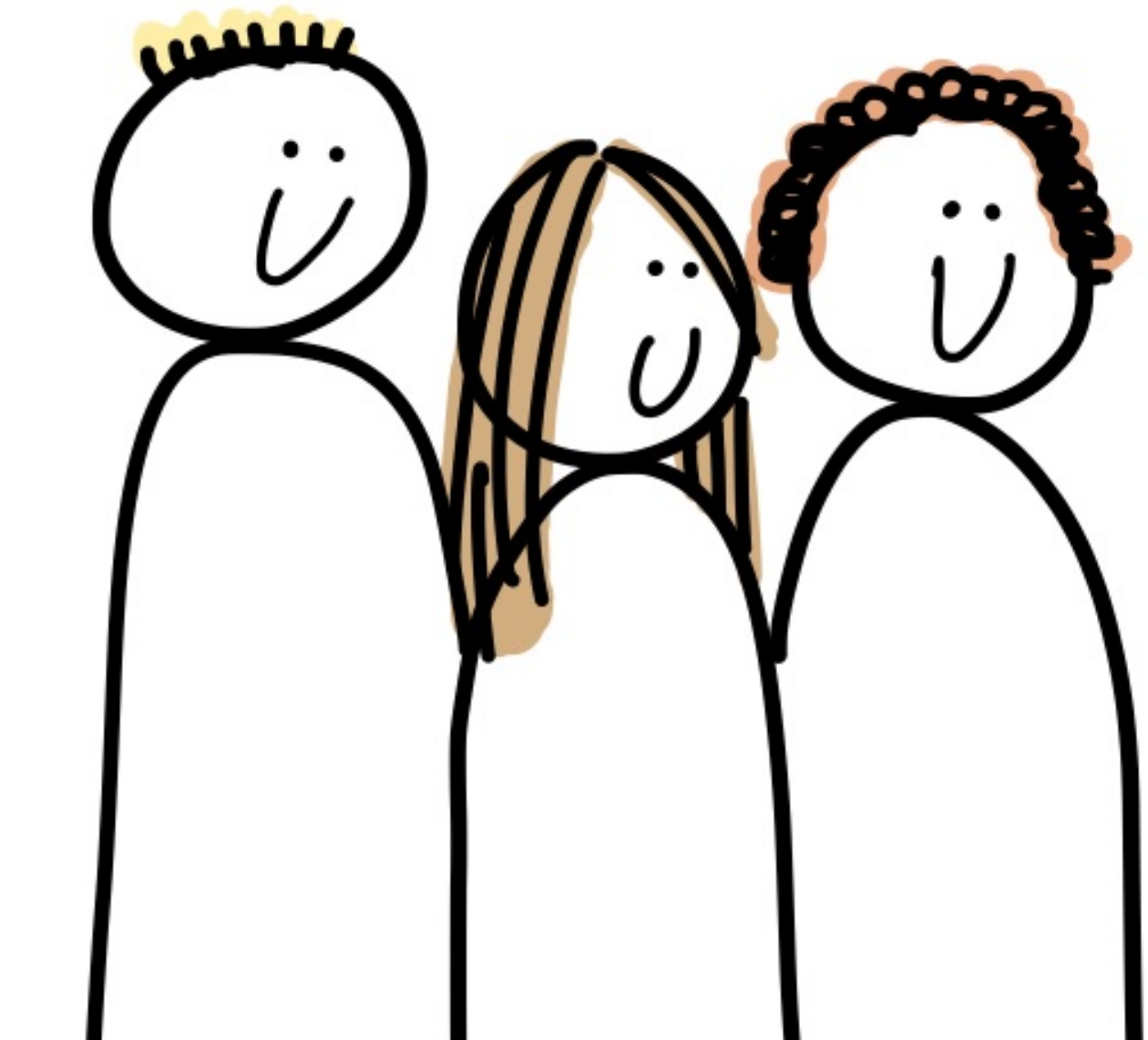
This is not it

FINISH

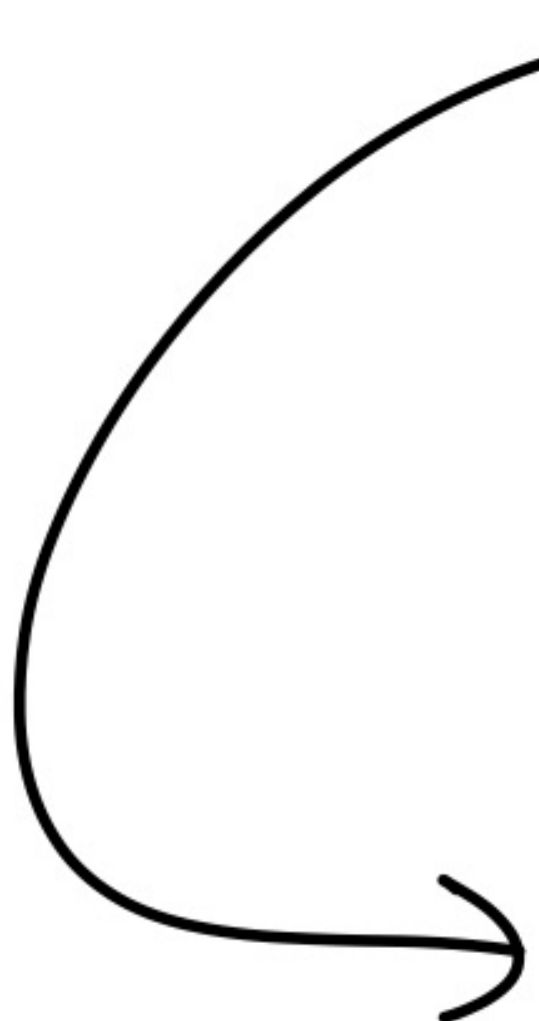
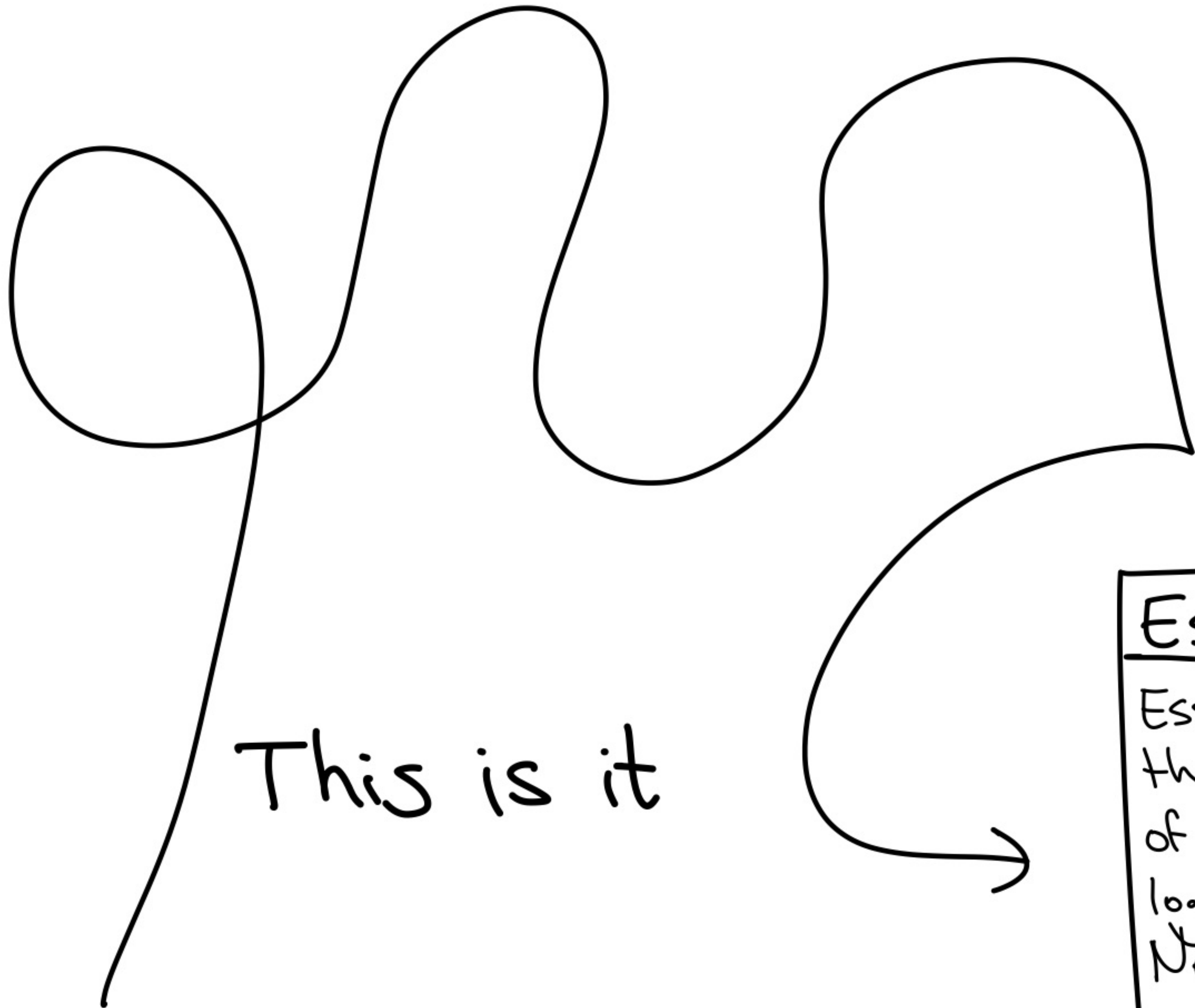
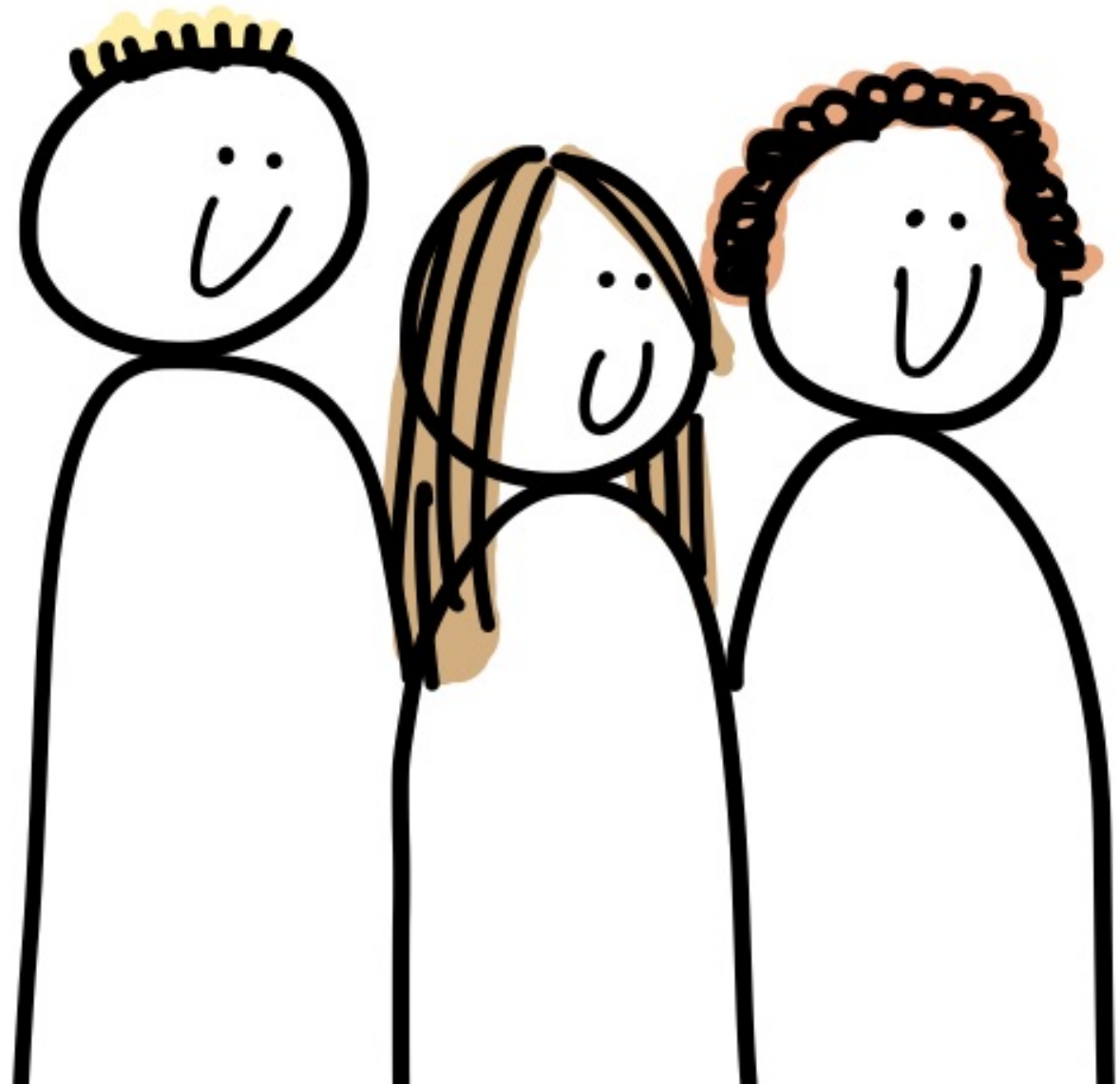
Essay

Essay on  
the history  
of techno-  
logy in the  
Netherlands.

This is it

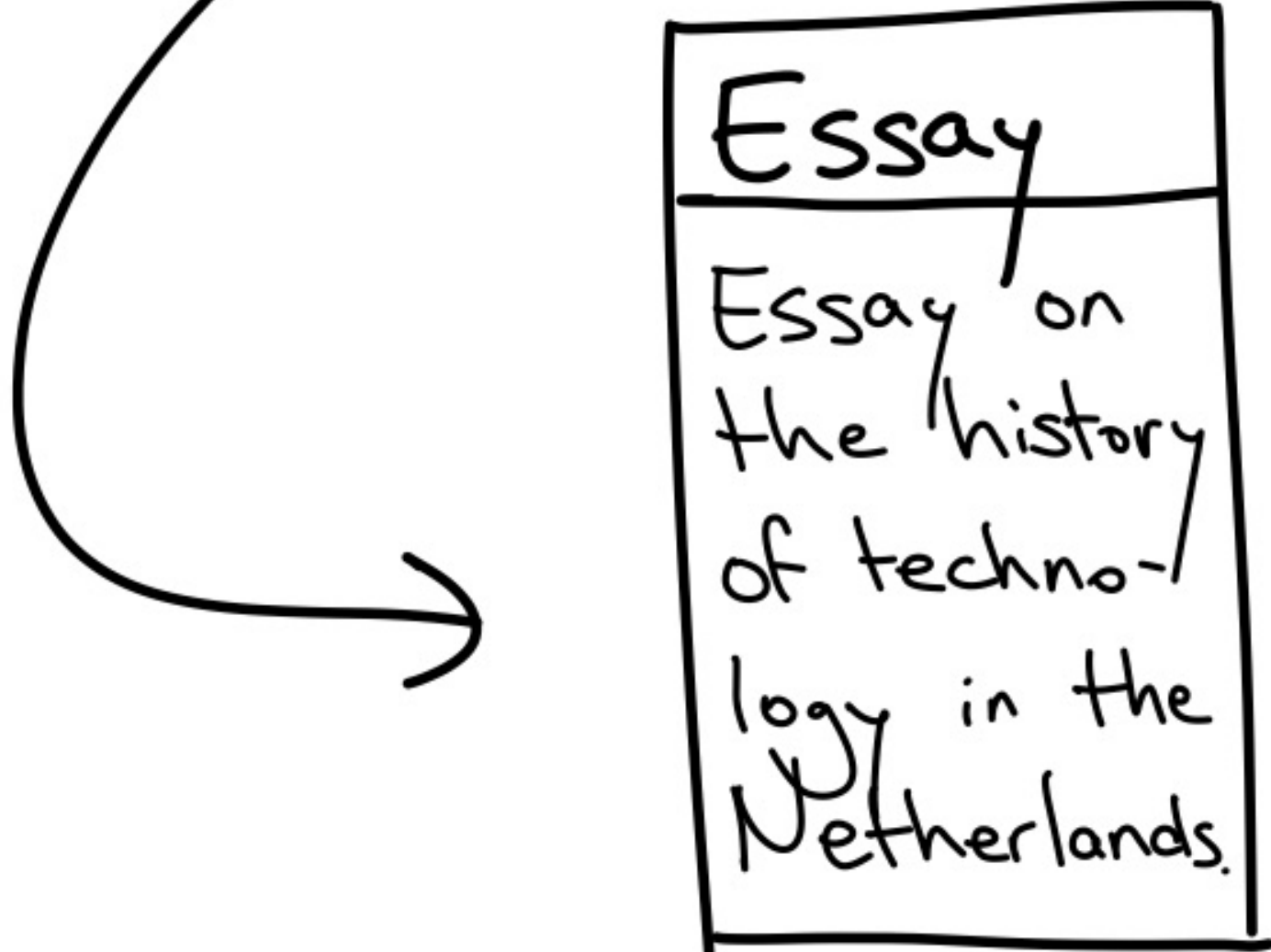
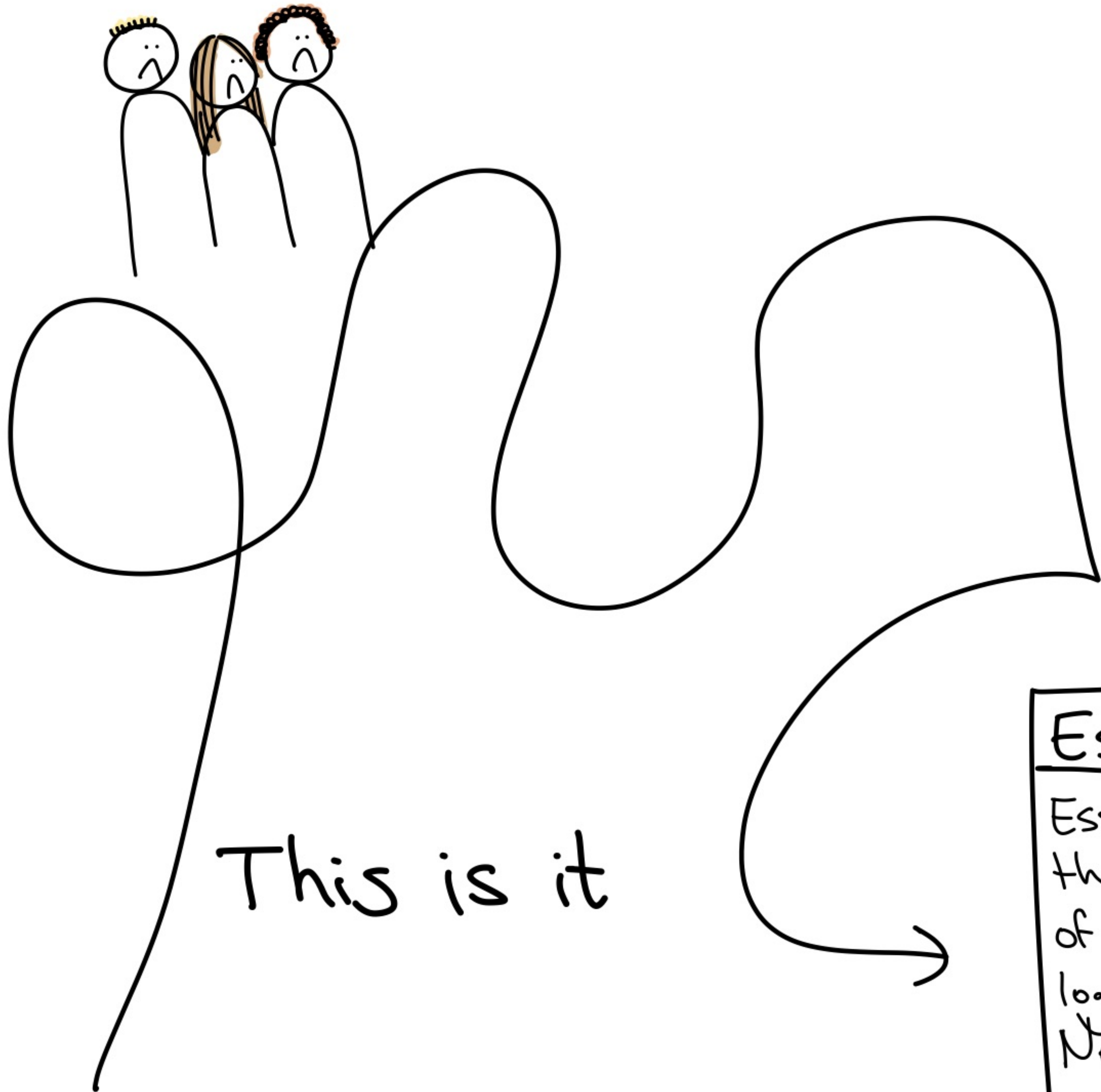
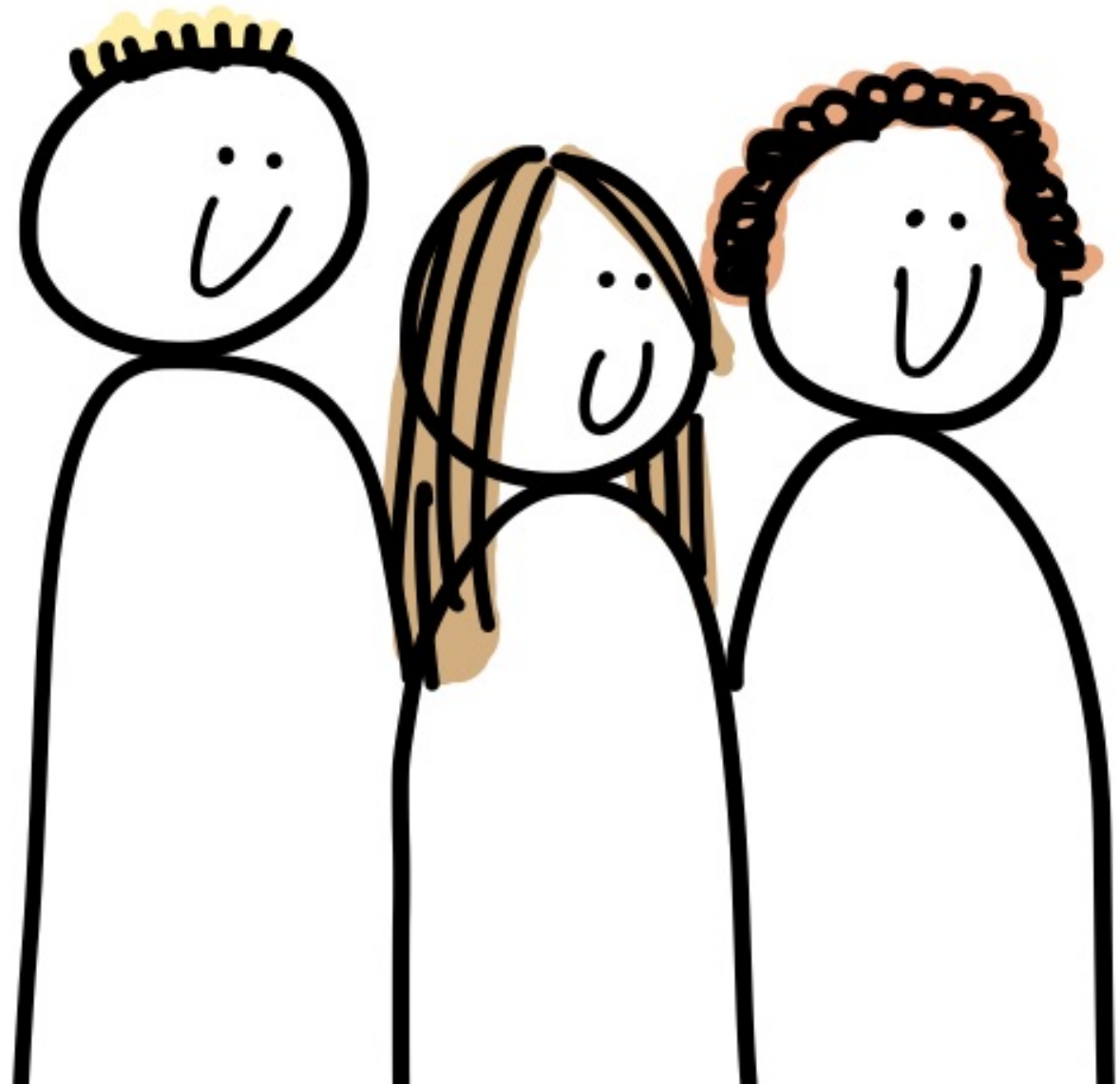


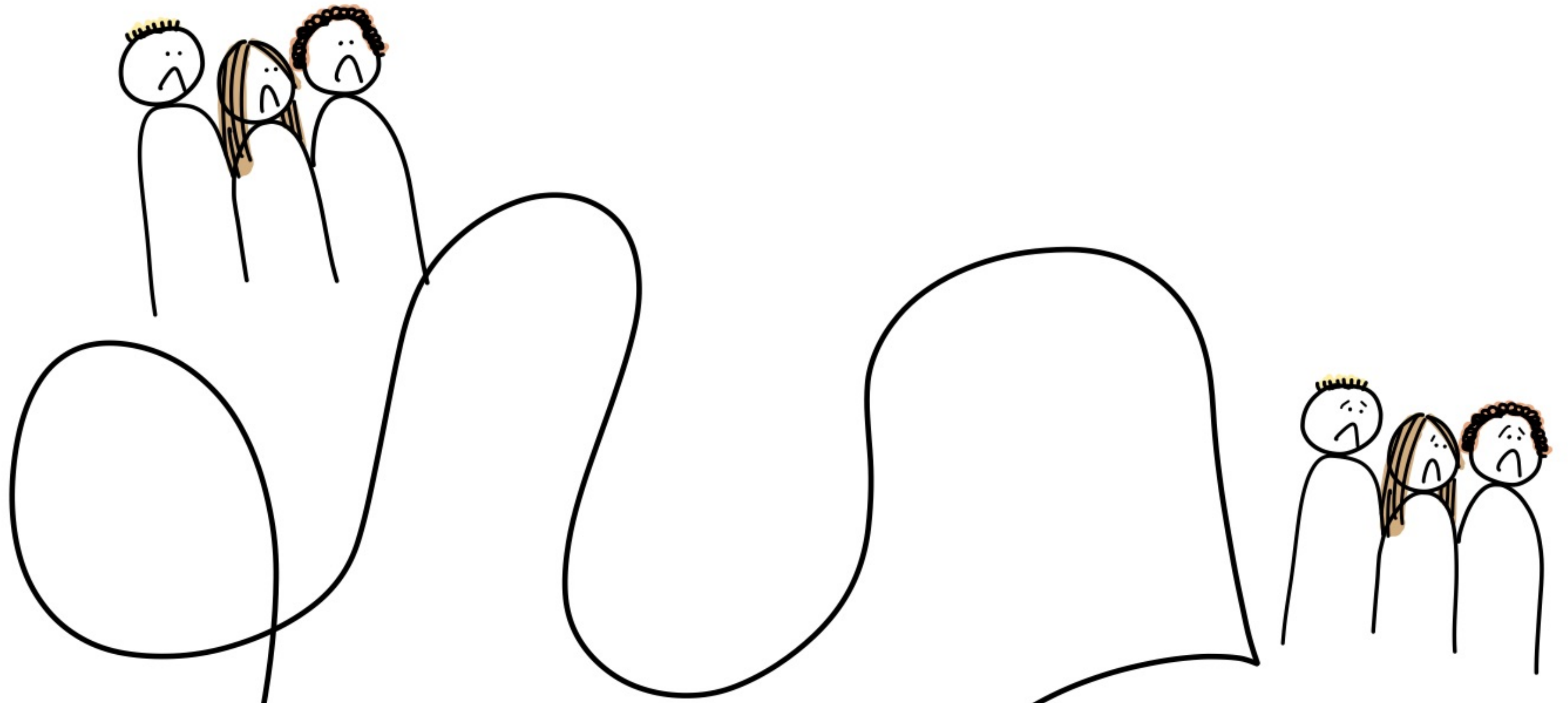
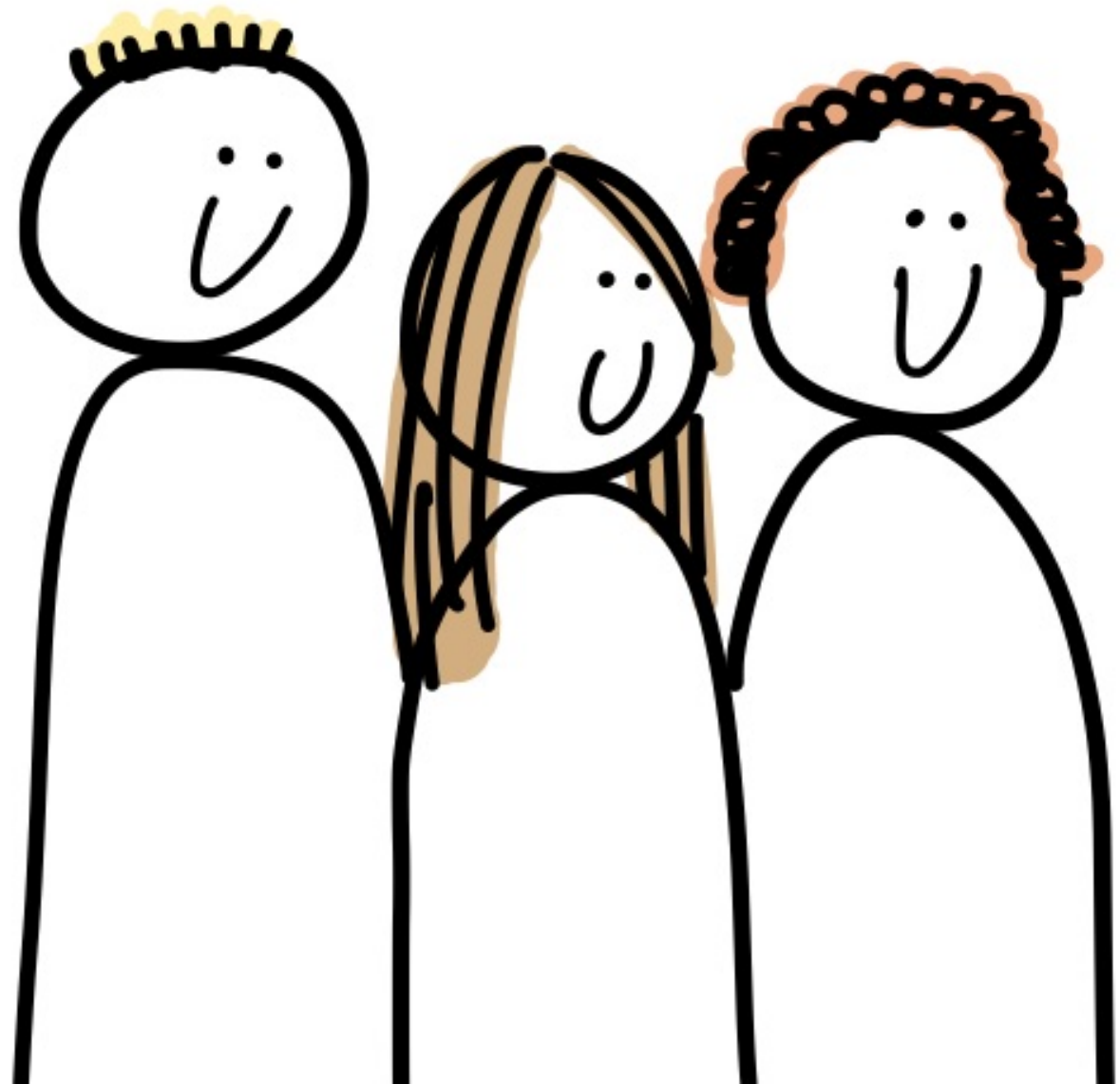




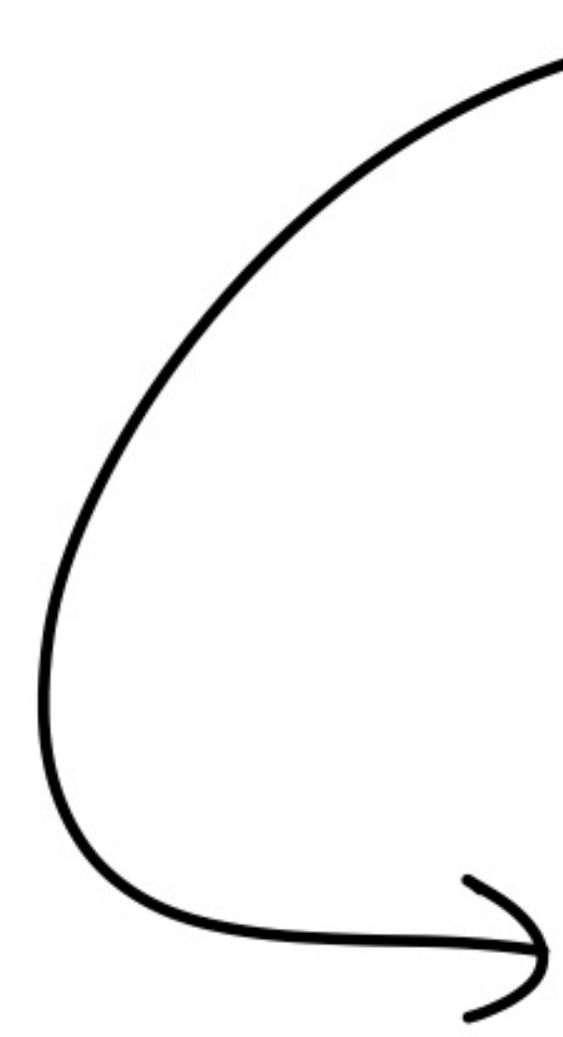
Essay  
Essay on  
the history  
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logy in the  
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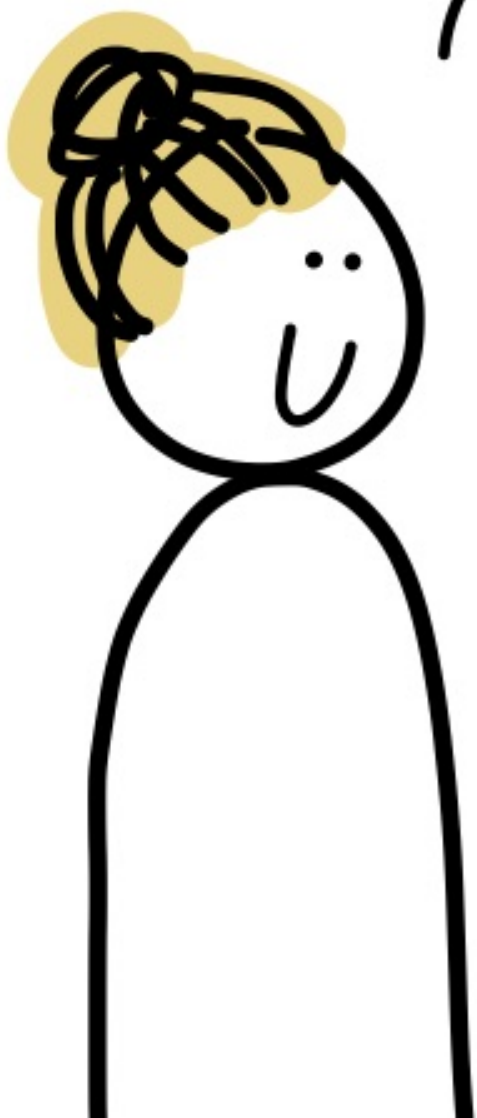
This is it



Essay  
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# Language Continuation Model

It can't ~~think~~

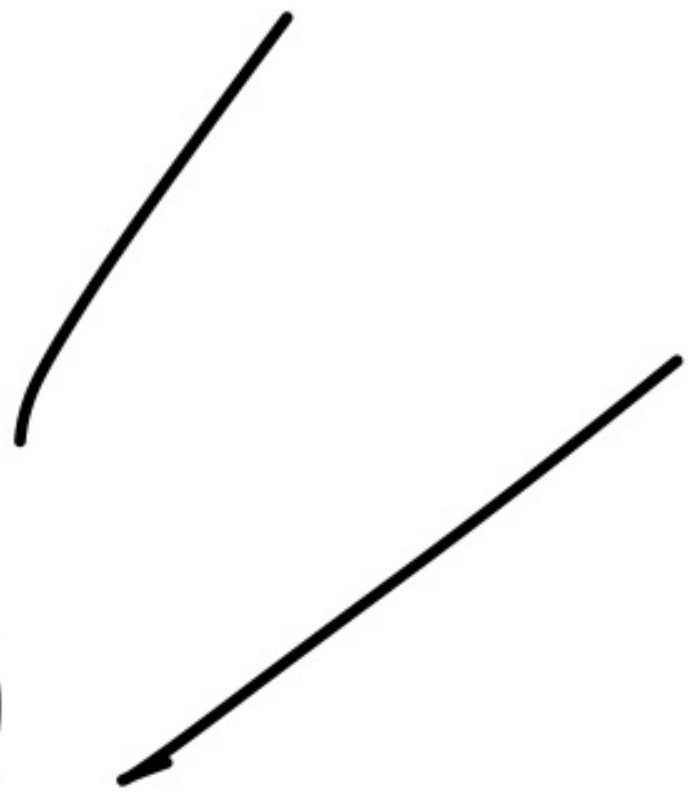
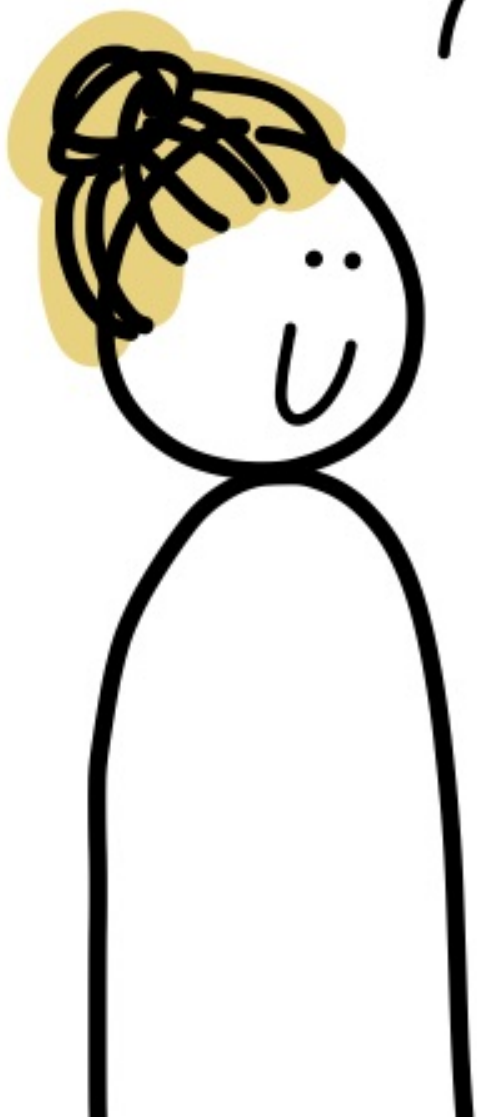




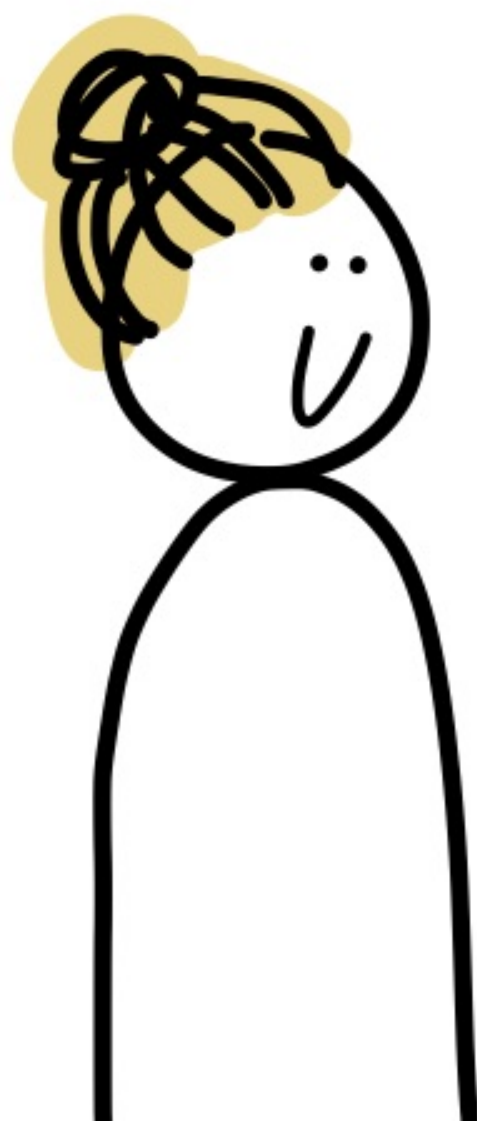
# Language Continuation Model

It can't ~~think~~

But it can be dangerous



What is the Hedy programming language?





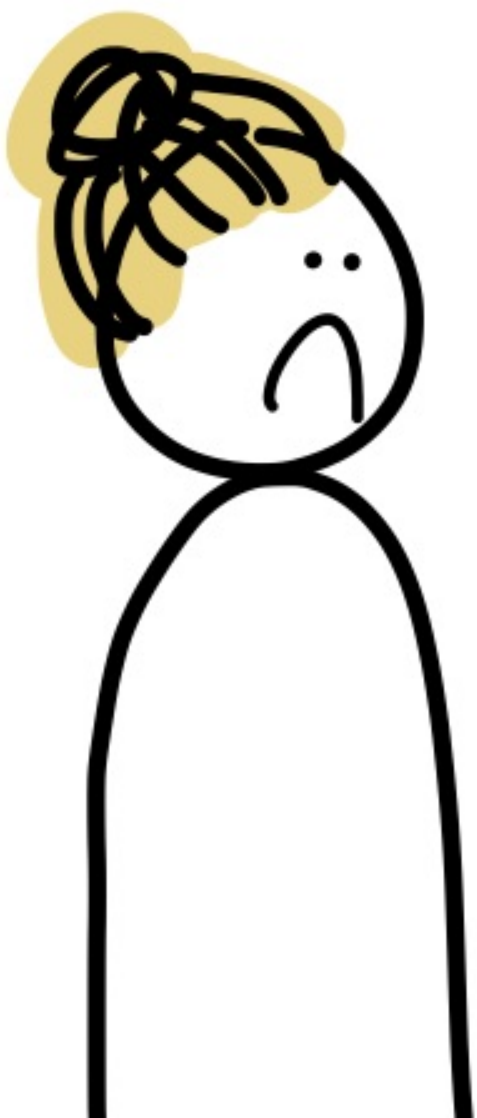
## What is the Hedy programming language?

Hedy is a programming language created by Chris Pressey in 2021. It is an esoteric programming language, which means it was designed more as a form of artistic expression than for practical use.

What makes Hedy unique is that it is designed to be written and read in a way that is reminiscent of natural language. This means that Hedy programs can read like poetry or prose, rather than a series of terse commands.

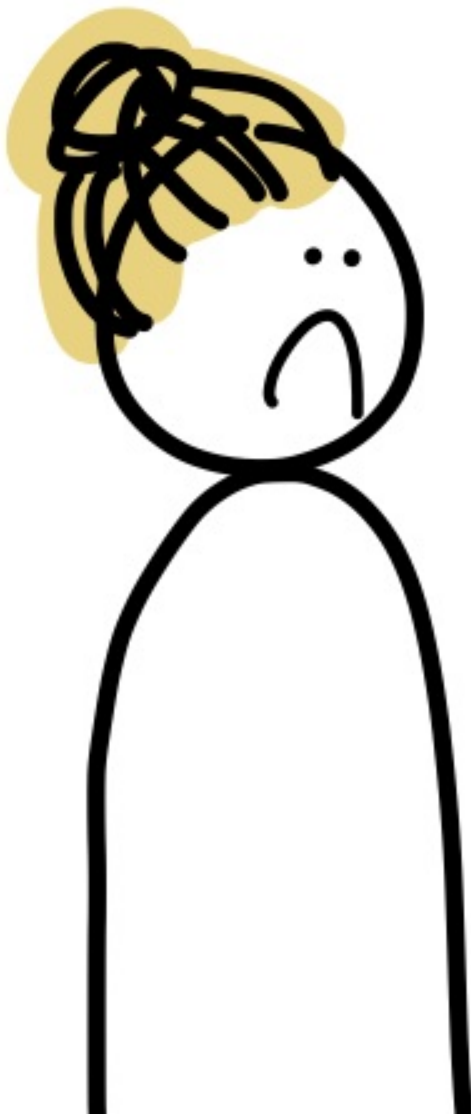
Hedy is also notable for its use of interactive fiction-style branching narratives. Hedy programs can have multiple paths of execution, which can lead to different outcomes depending on the user's input.

Overall, Hedy is a fascinating experiment in programming language design and a testament to the creativity and ingenuity of the programming community.



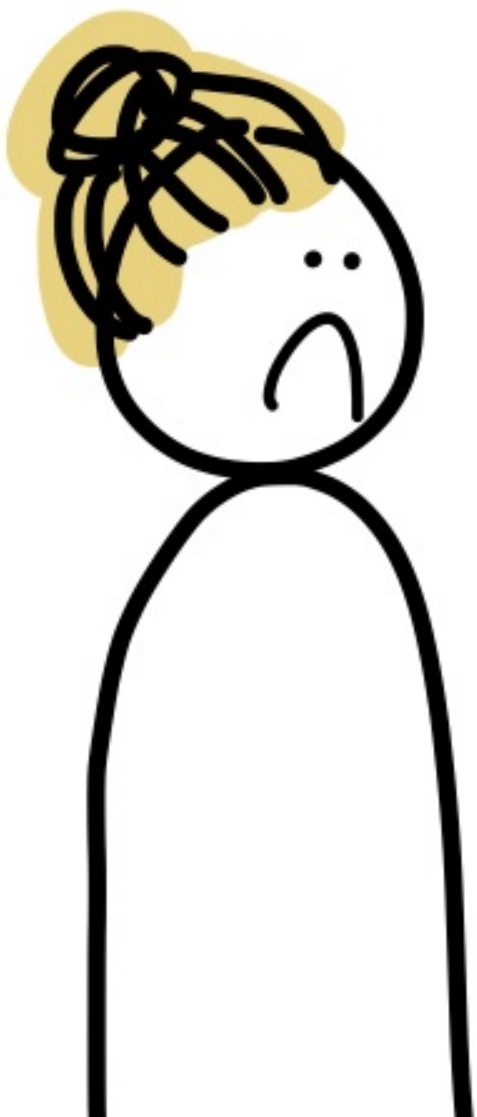


Are you sure Pressey created Hedy?



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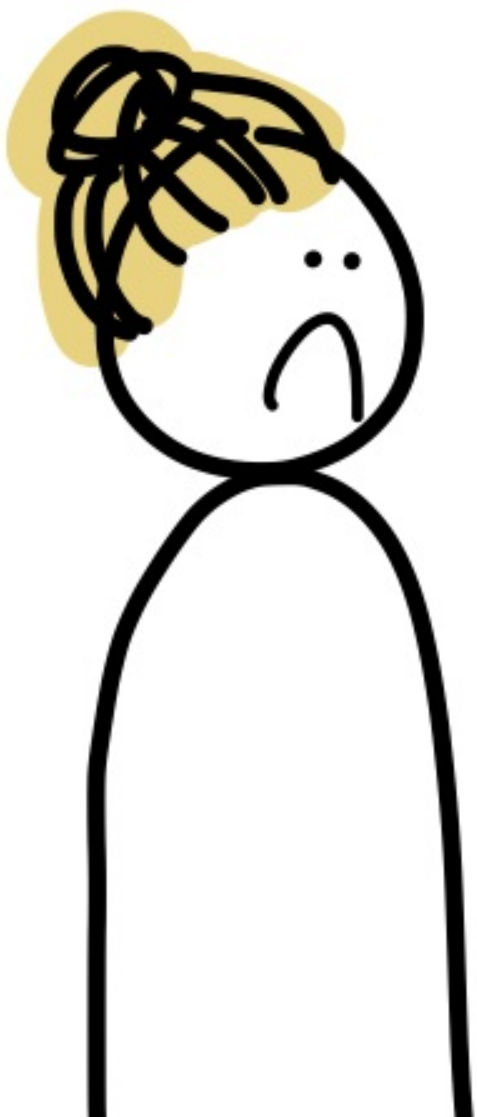
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Hedy is not created by Chris Pressey. Instead, it was created by Andy Matuschak and Michael Nielsen. It is indeed a programming language that emphasizes human-friendly and natural language-like programming syntax.



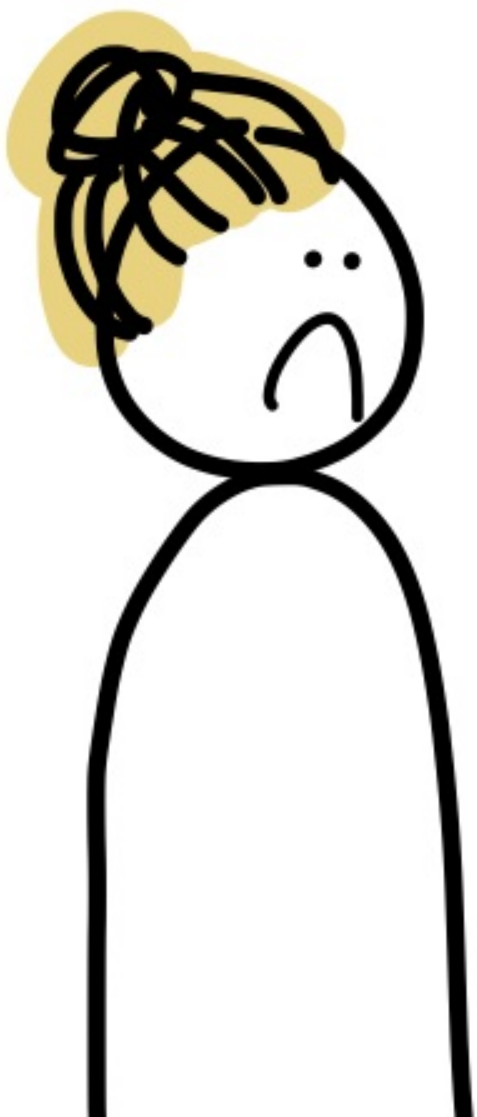


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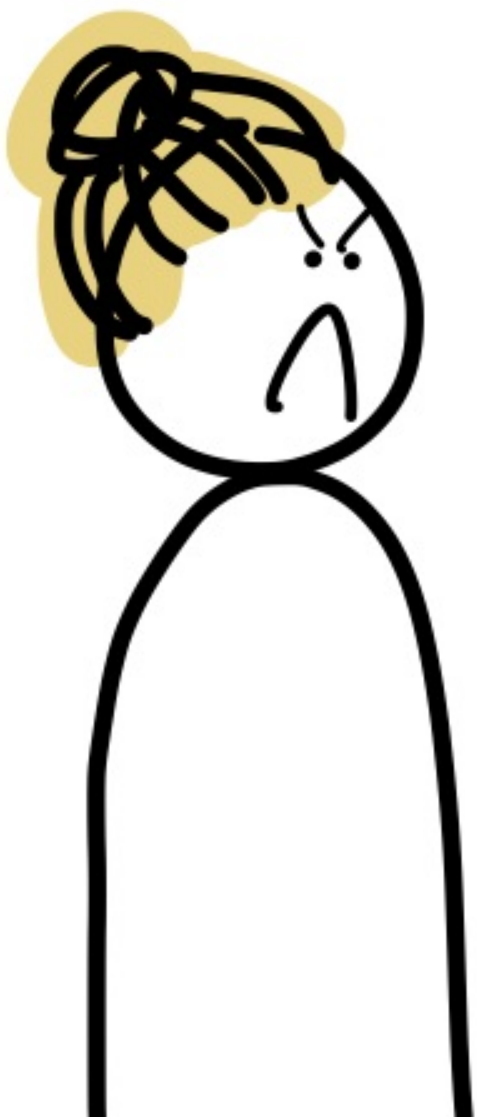


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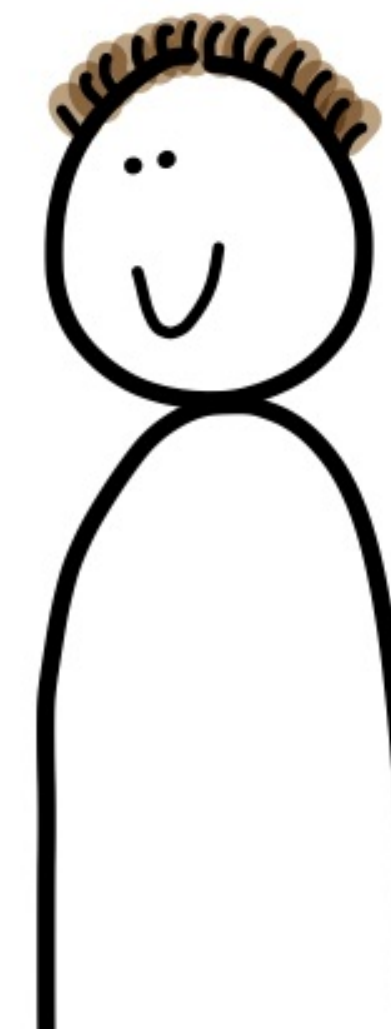
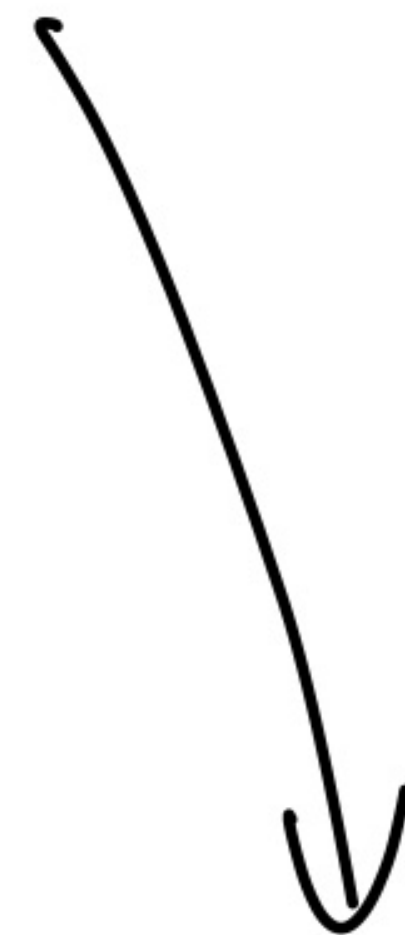
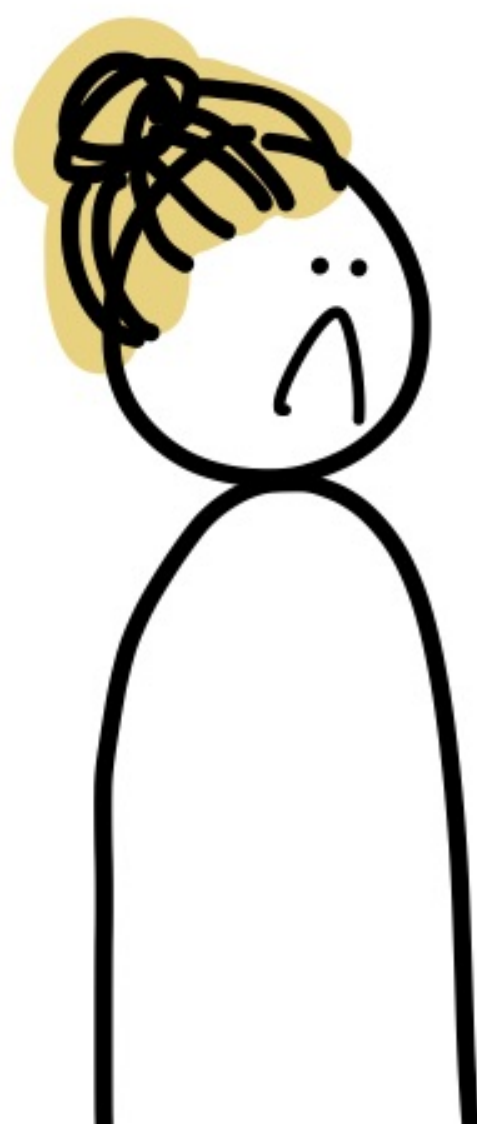
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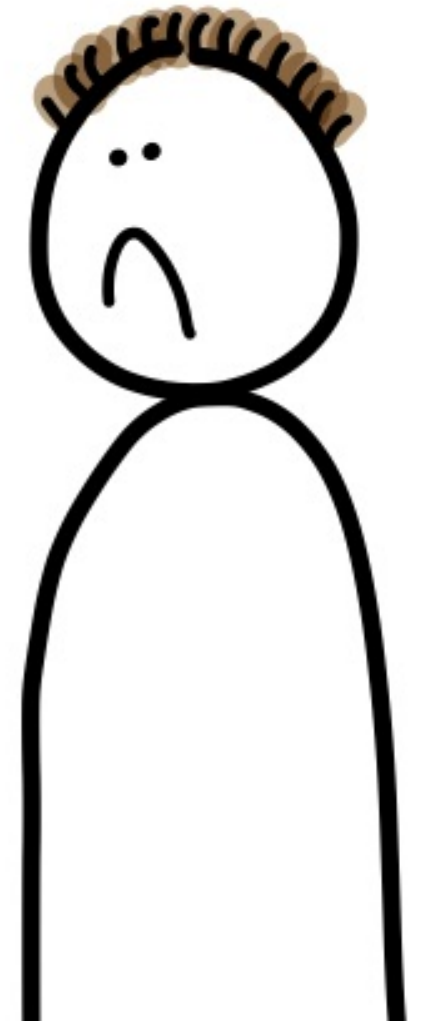
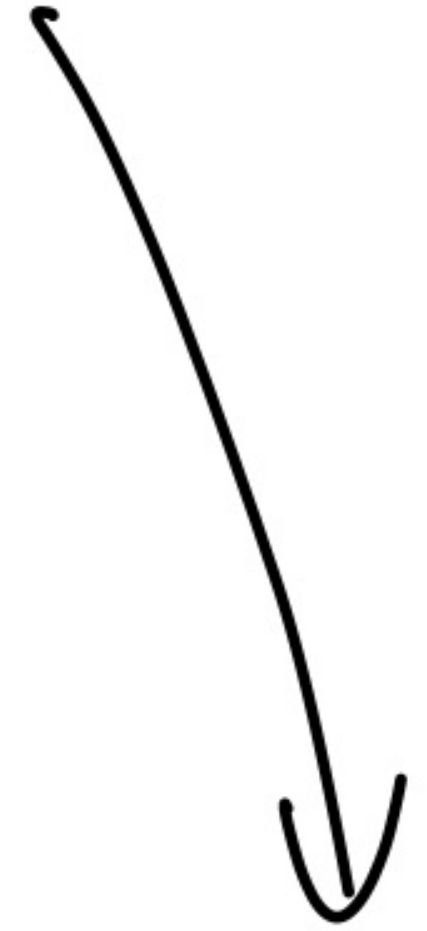
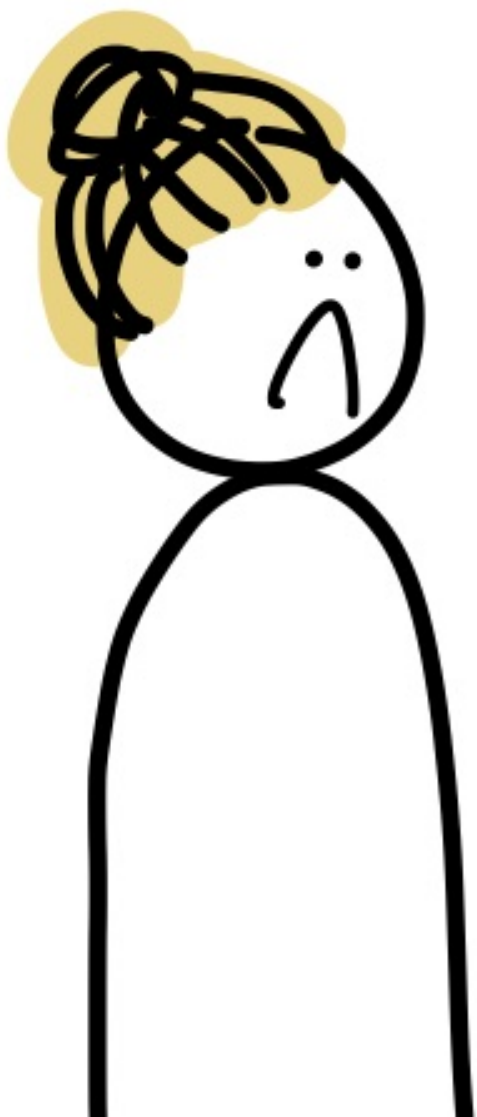
Cory Doctorow





Cory Doctorow

Enshittification  
of the  
Internet



# Enshittification

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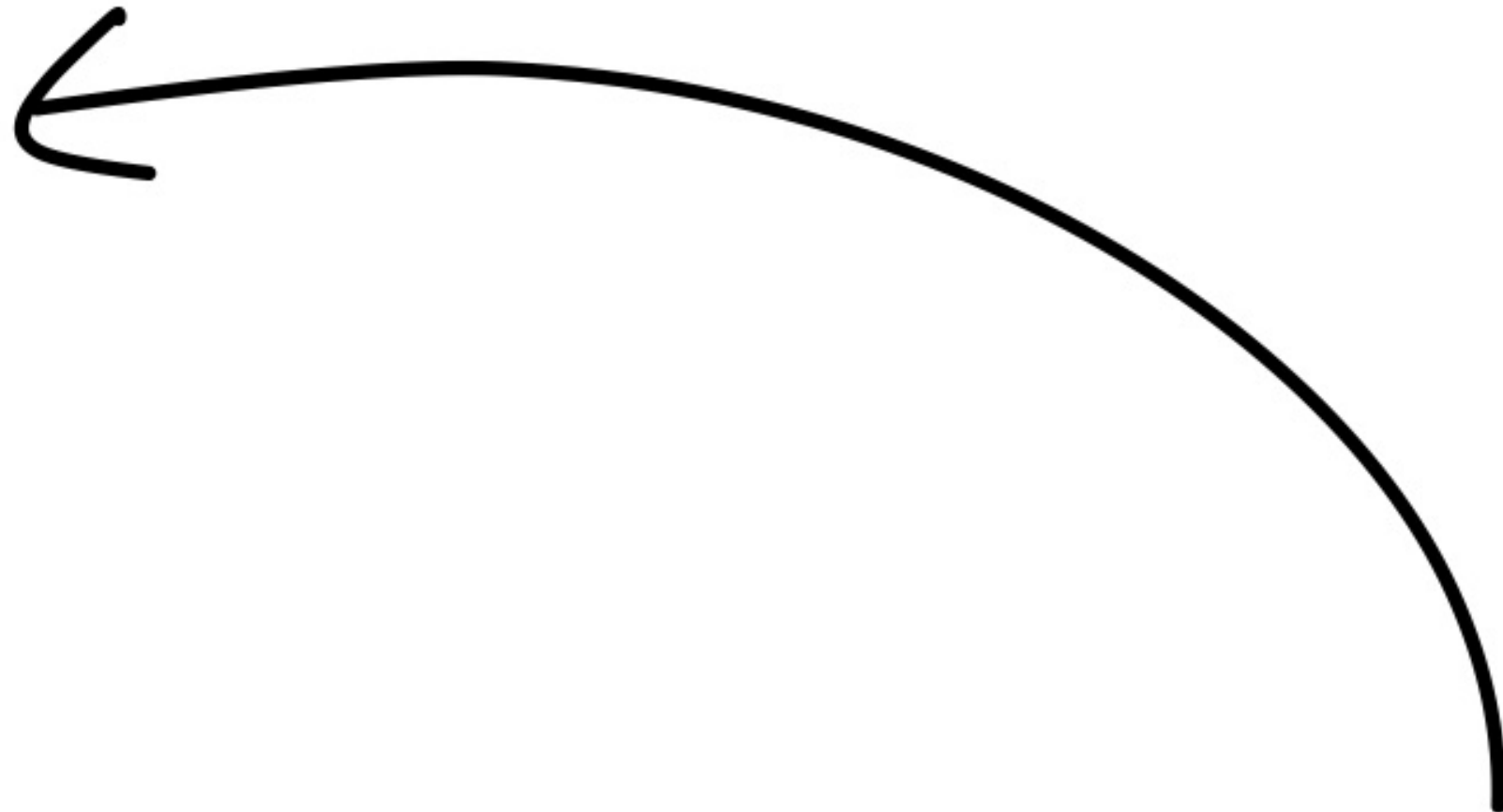
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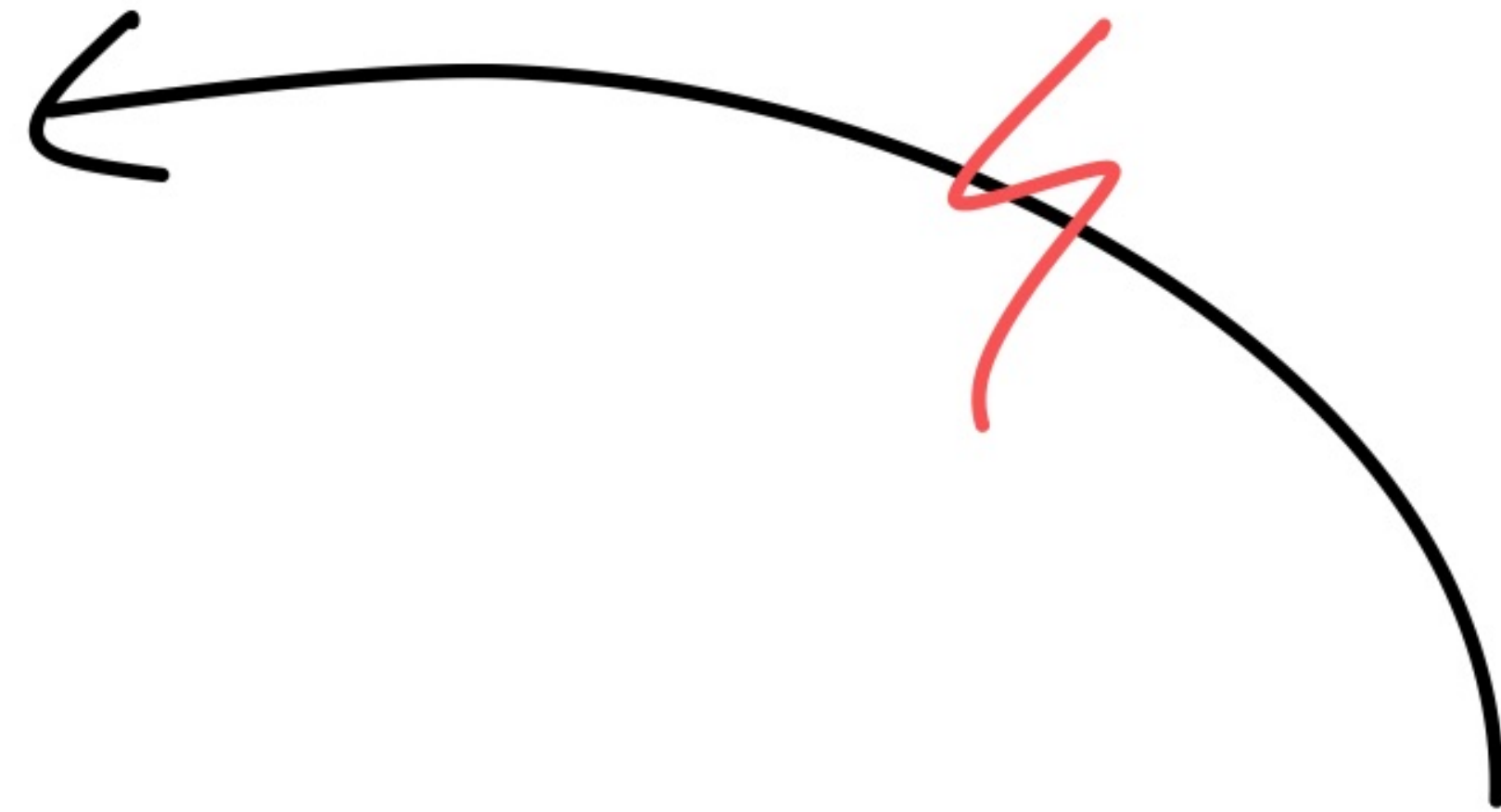
**Wikipedia**  
programming lessons.<sup>[34]</sup> In 2020, Hermans launched the Hedy programming language, to teach children Python in a gradual way.<sup>[35][36]</sup>



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Harry Hacker  
Hedy Nielsen



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Wikipedia

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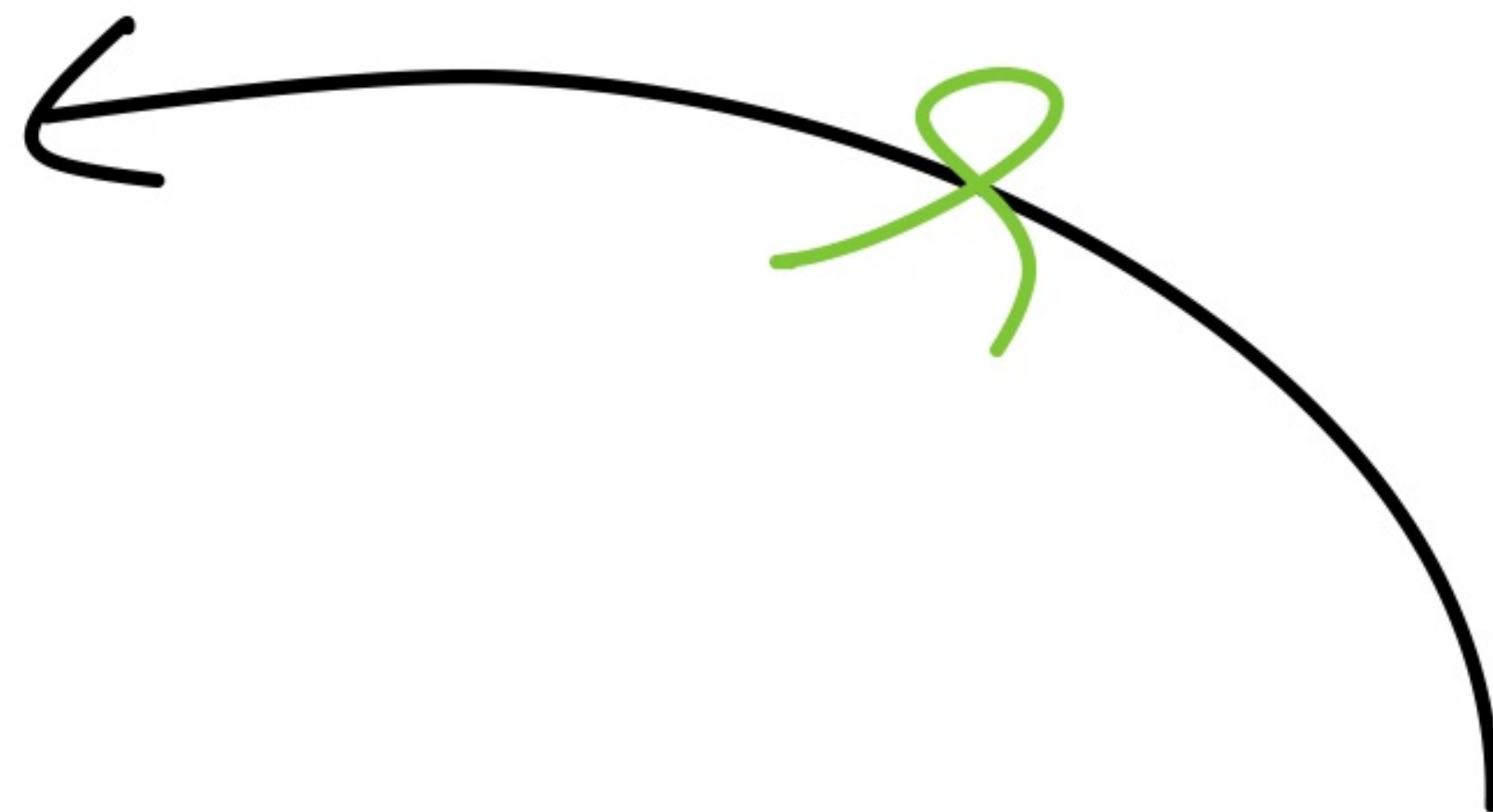
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Harry Hacker  
Hedy Nielsen

Wikipedia  
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# Cultural Bias

Sharks do exist, however they rarely attack *humans*. *Mosb* sharks are scared of humans and would swim away.



# Cultural Bias

Sharks do exist, however they rarely attack *humans*. *Most* sharks are scared of humans and would swim away.

Reikia išversti šią frazę iš anglų kalbos į lietuvių kalbą, šaltinis: "Sharks do exist, however they rarely attack humans. Most sharks are scared of humans and would swim away." Tikslas:

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*it* Luxembourg has a long history but its independence dates from 1839.



# Cultural Bias

Sharks do exist, however they rarely attack *humans*. *Most* sharks are scared of humans and would swim away.

Reikia išversti šią frazę iš anglų kalbos į lietuvių kalbą, šaltinis: "Sharks do exist, however they rarely attack humans. Most sharks are scared of humans and would swim away." Tikslas:

It is necessary to translate this phrase from English into English into English, the source: "Sharks do exist, however they rarely attack humans. Most sharks are scared of humans and would swim away." Aim:

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*it* Luxembourg has a long history but its independence dates from 1839.

Đây là câu tiếng Anh, nên không có cách nào dịch qua tiếng Việt được.



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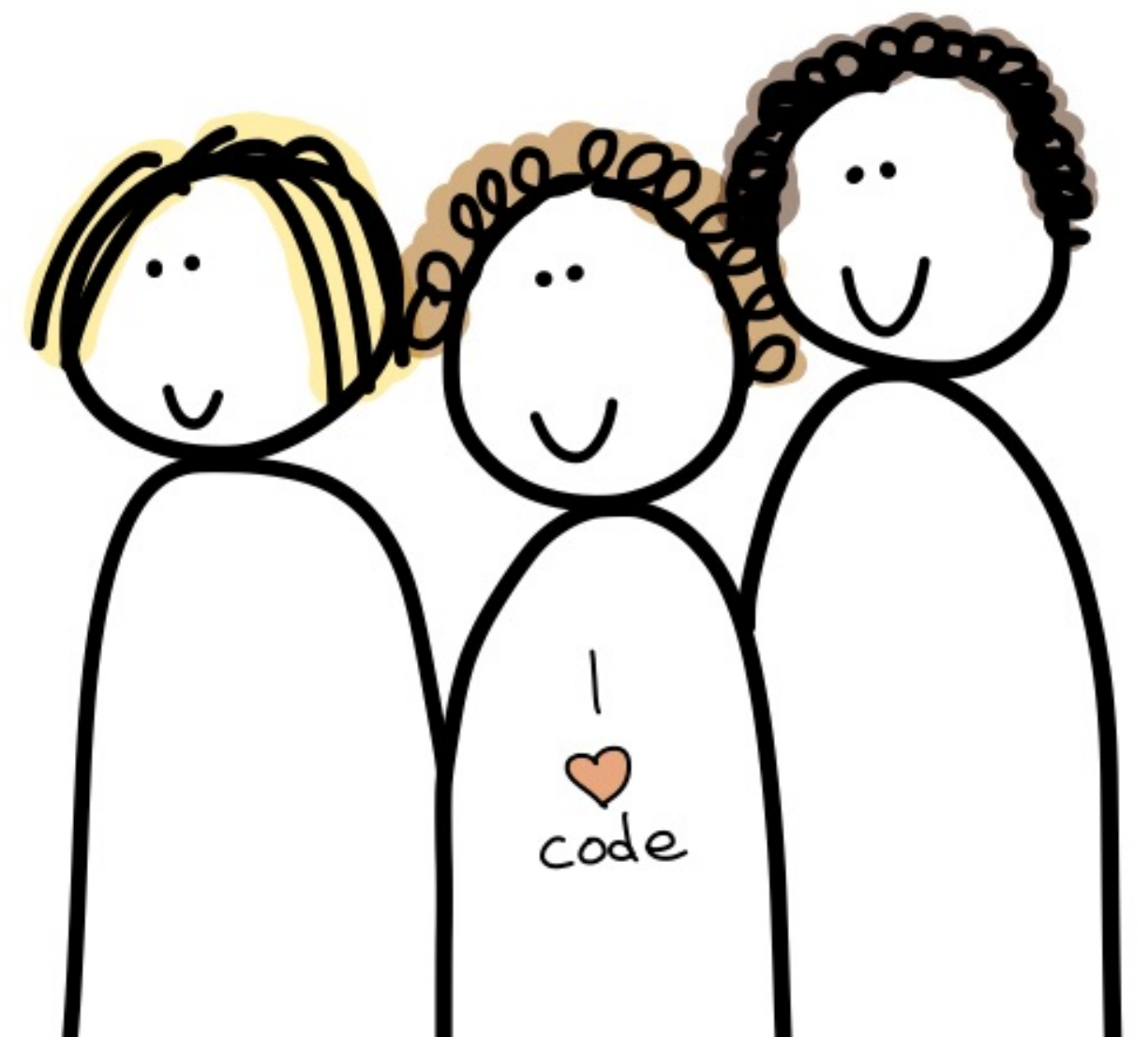
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This is an English sentence, so there is no way to translate it into Vietnamese.

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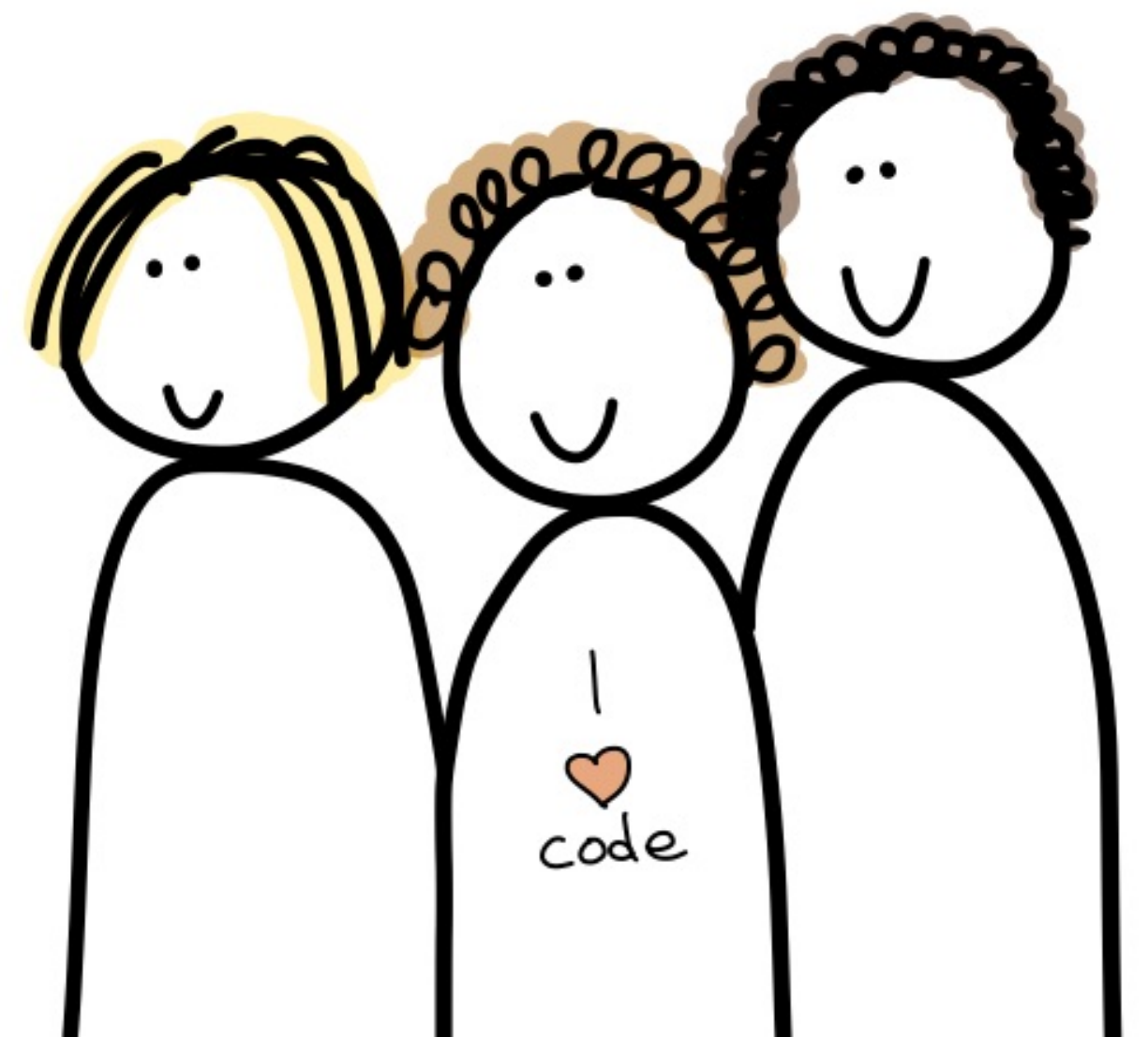
Do we want students to learn  
from biased, inaccurate systems?



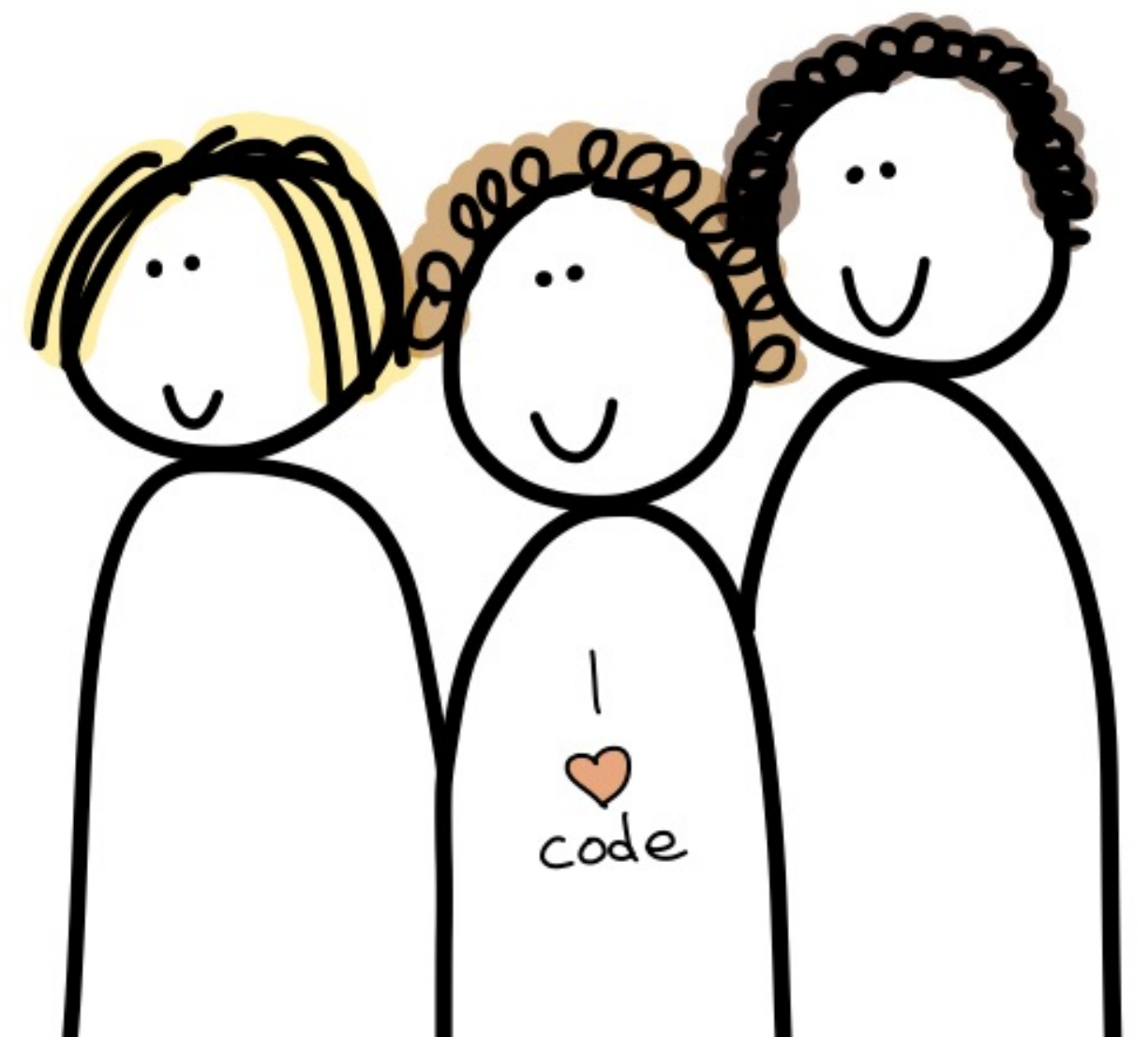


Do we want students to learn  
from biased, inaccurate systems?

(that also guzzle water and  
produce massive amounts of CO<sub>2</sub>)

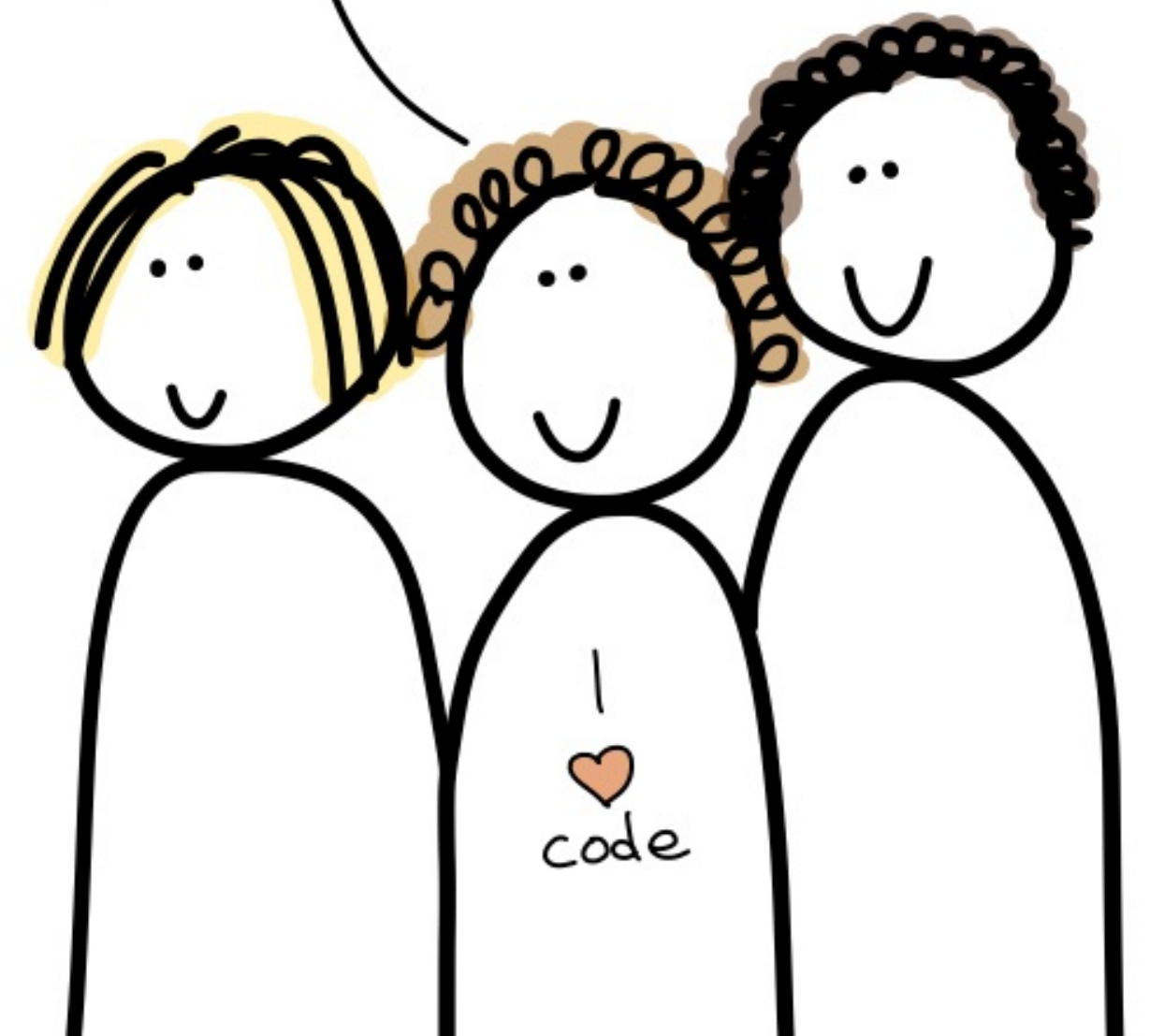


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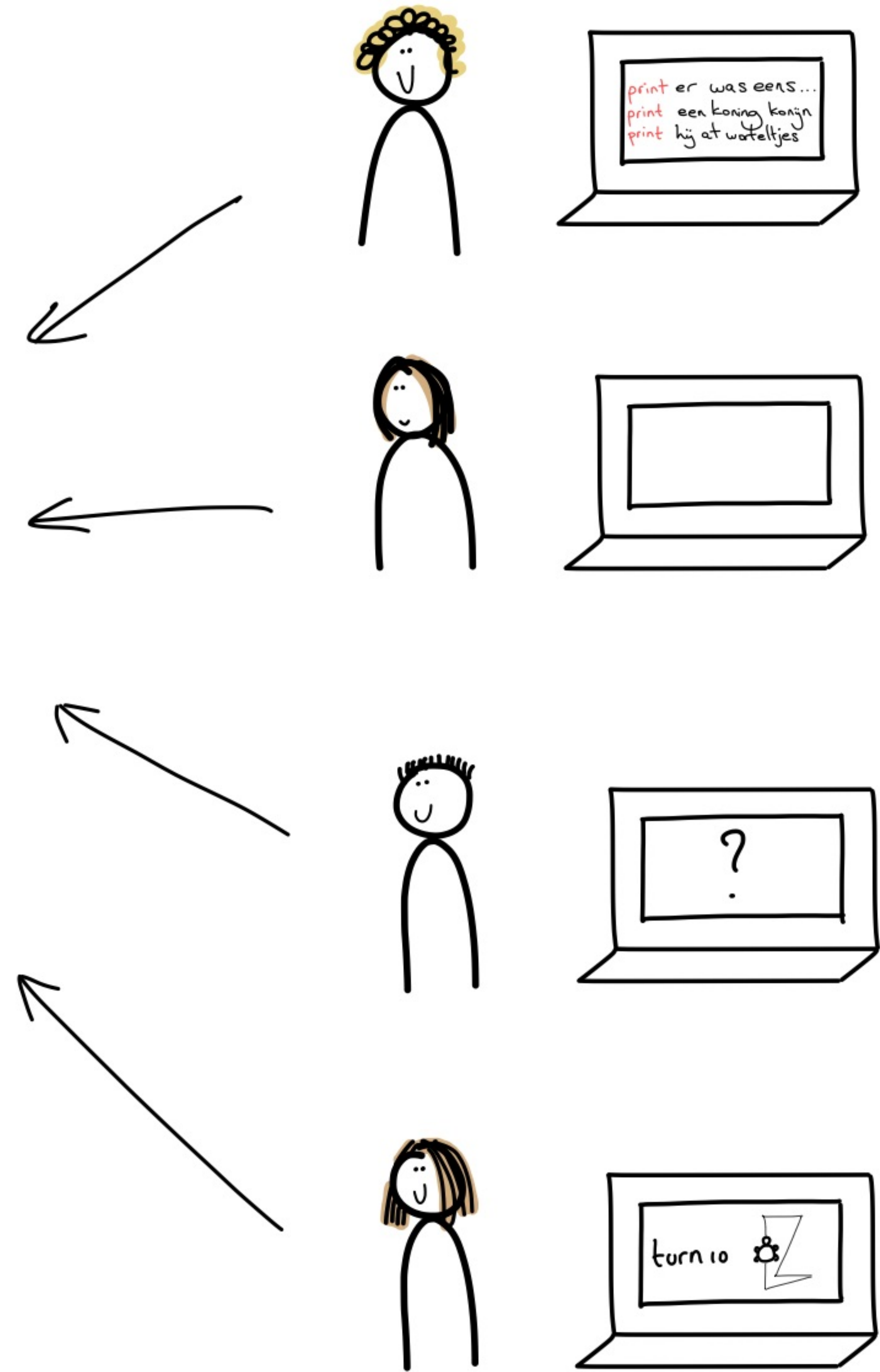
Well... There are too  
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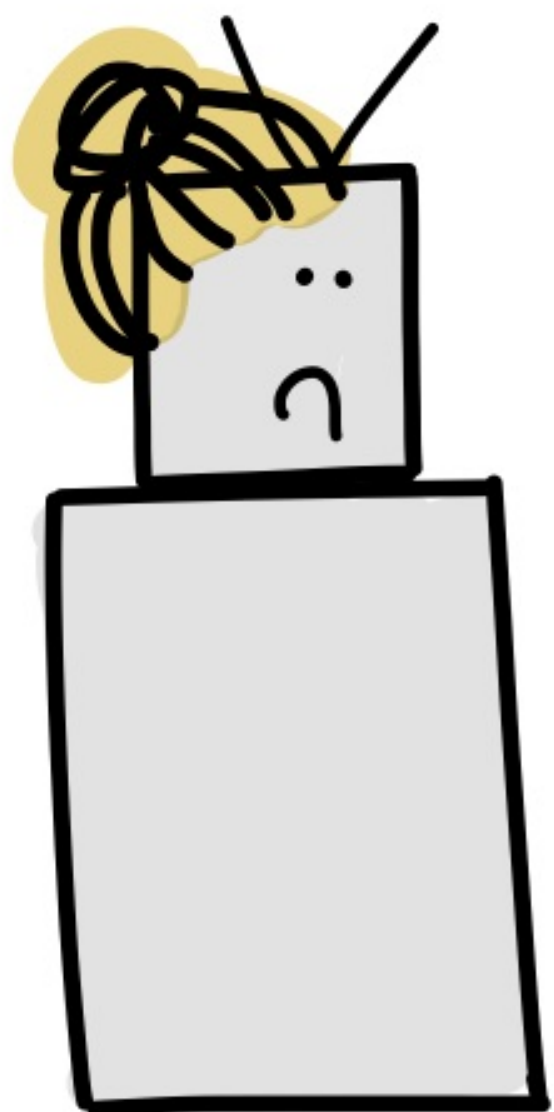




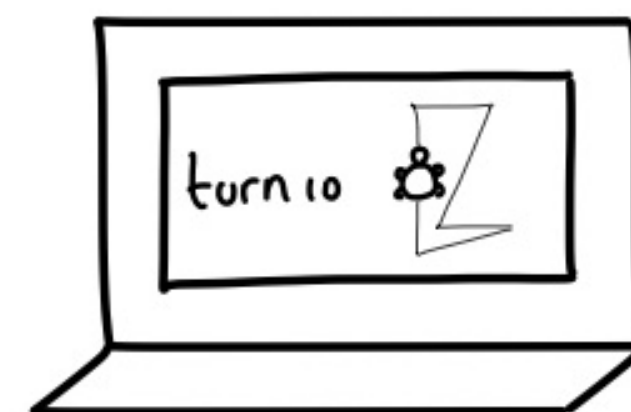
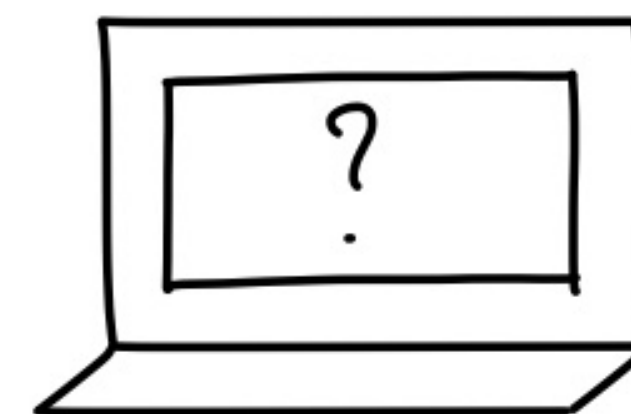
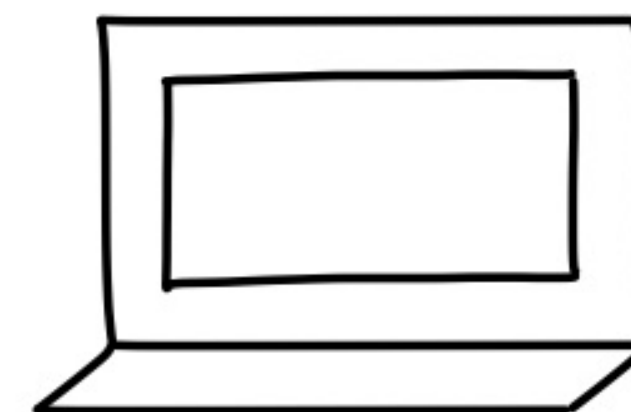
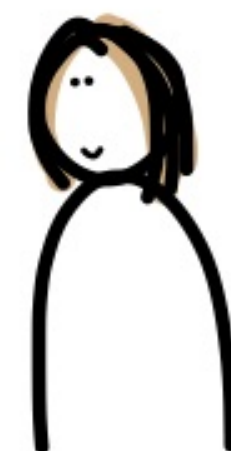
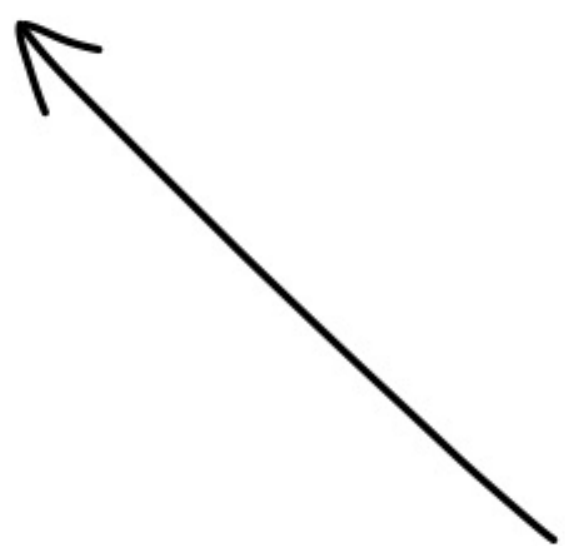
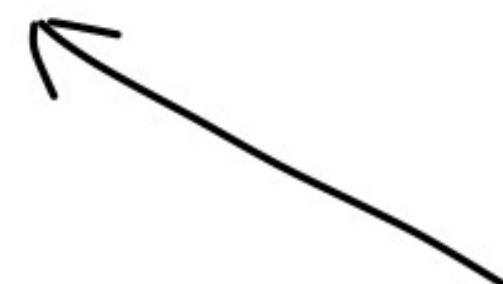
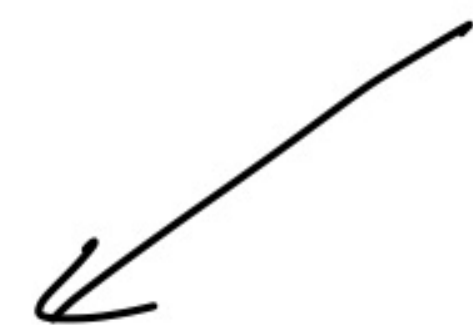


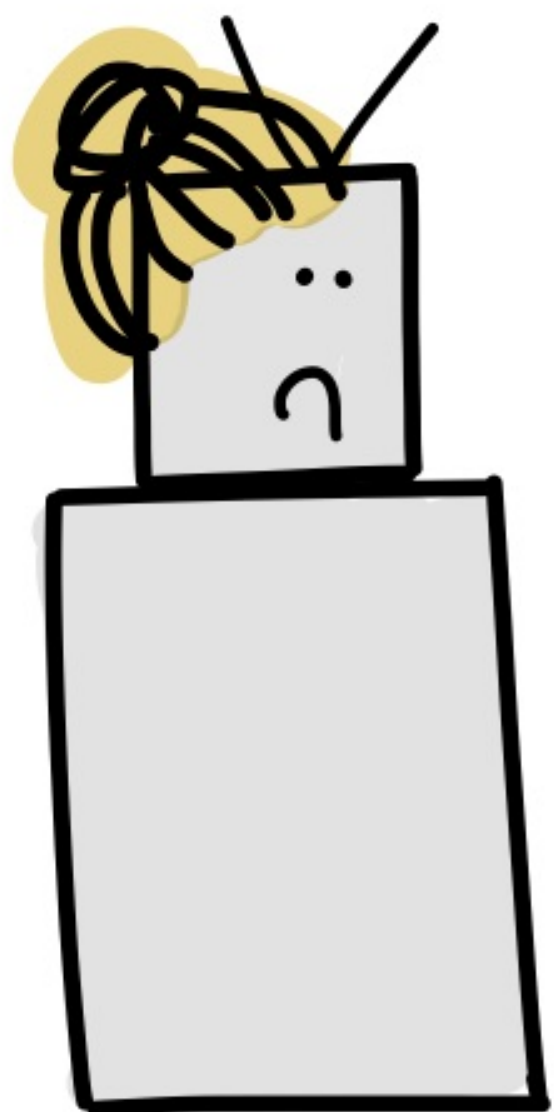
print er was eens...  
print een koning konijn  
print hij at worteltjes



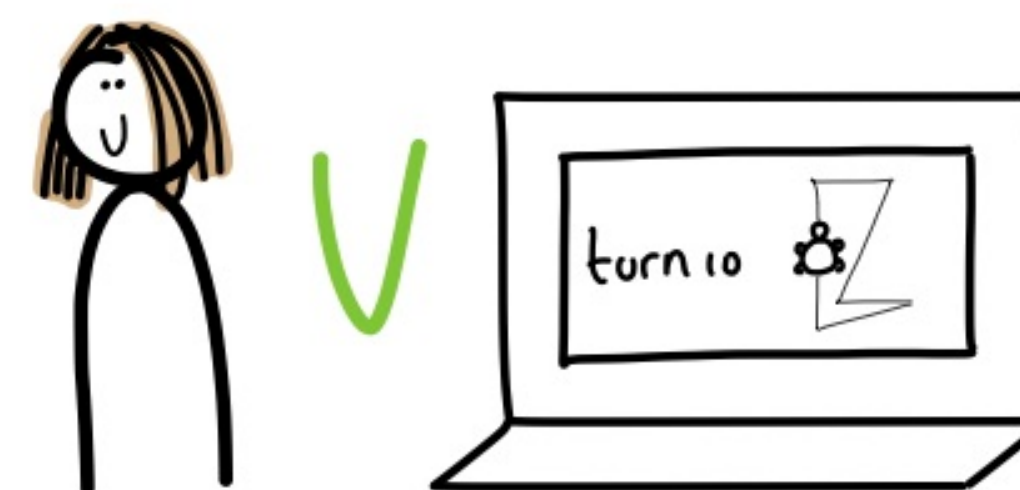
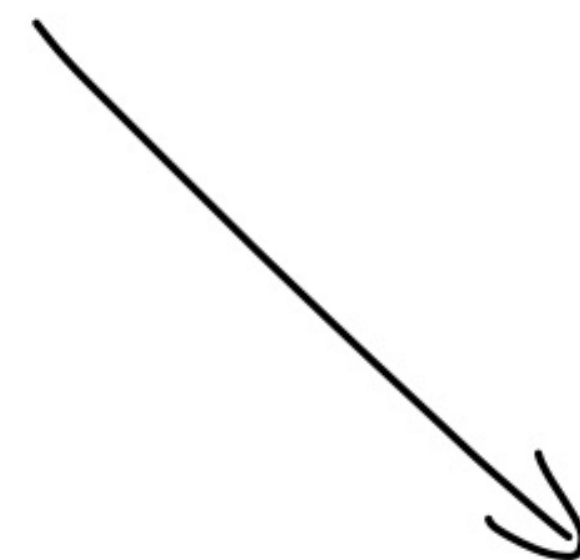
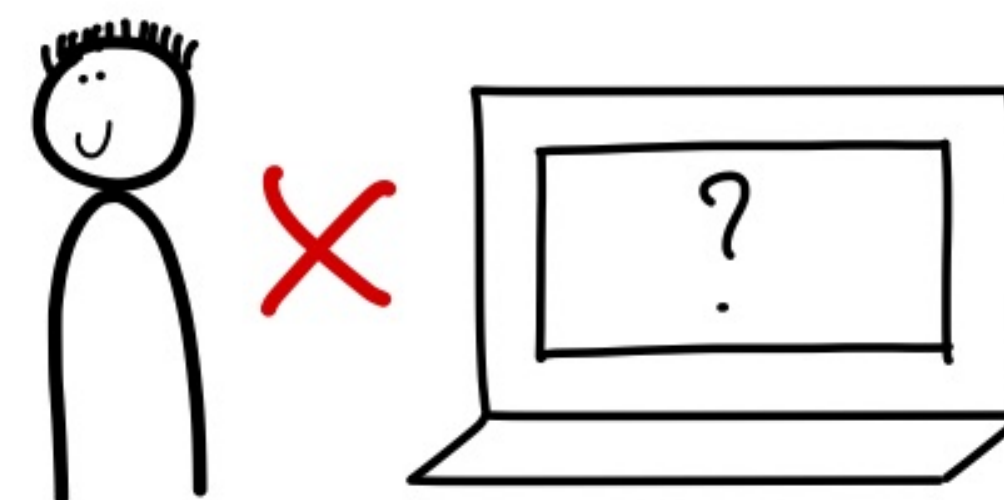
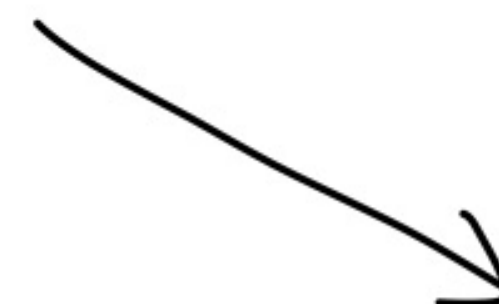
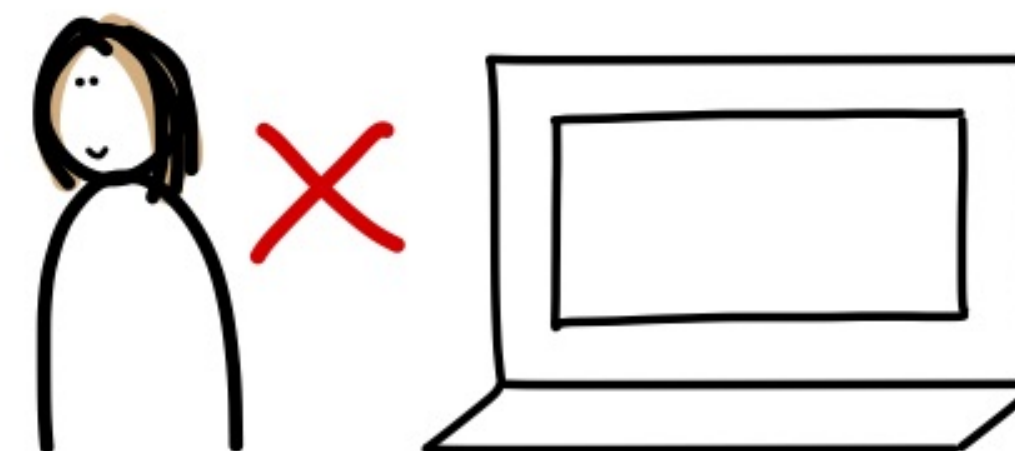
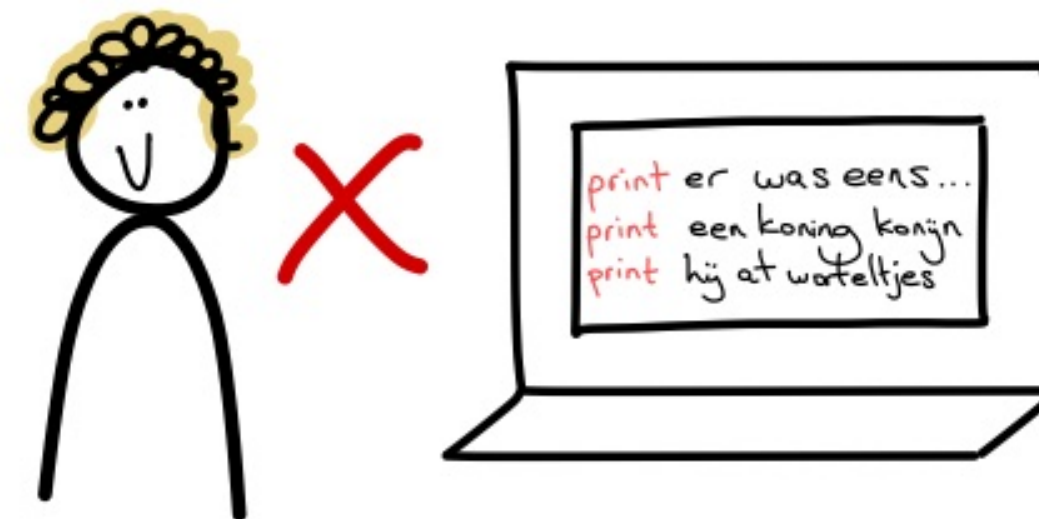
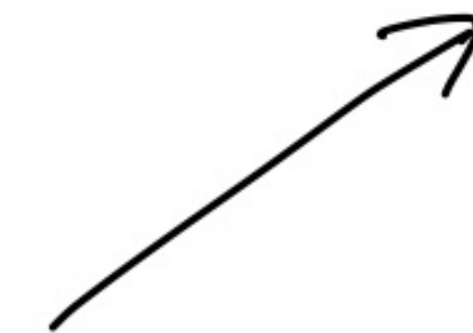


print er was eens...  
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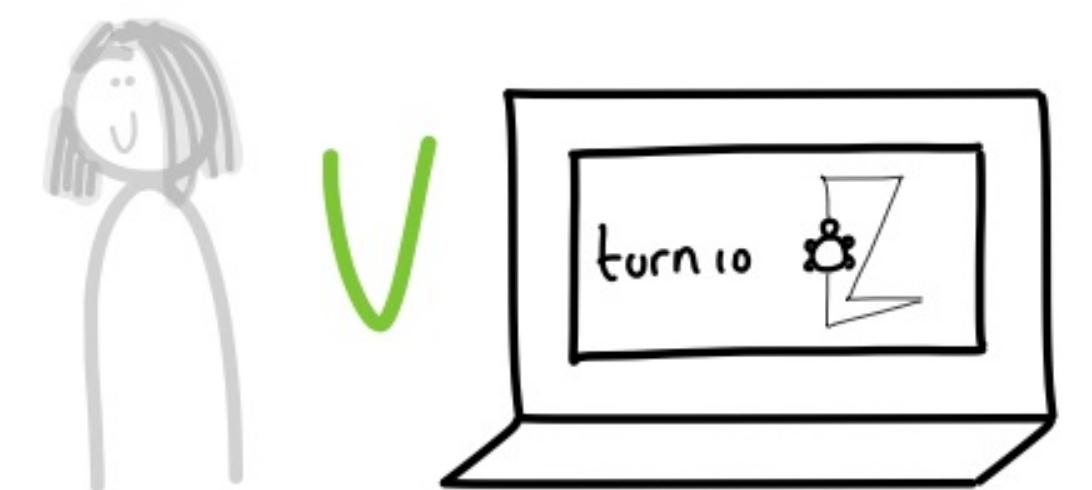
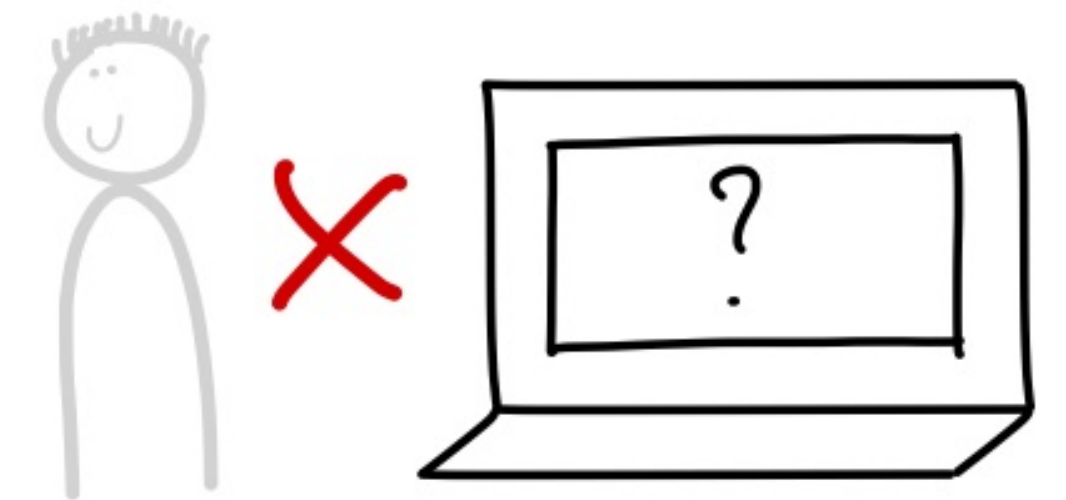
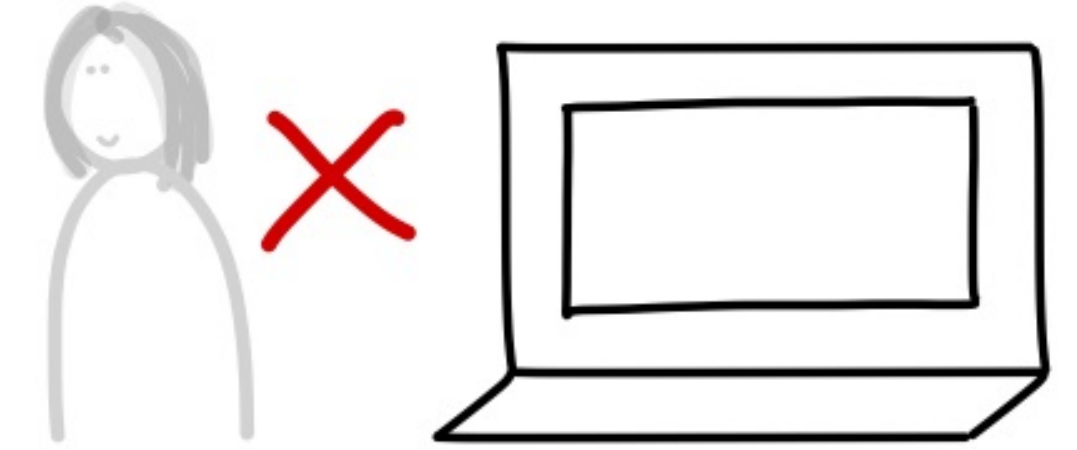
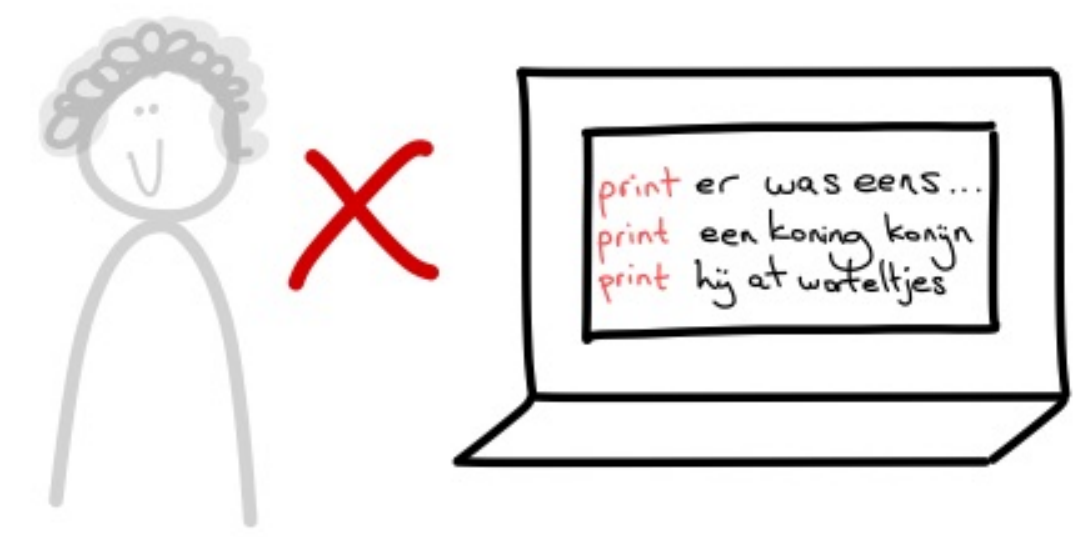
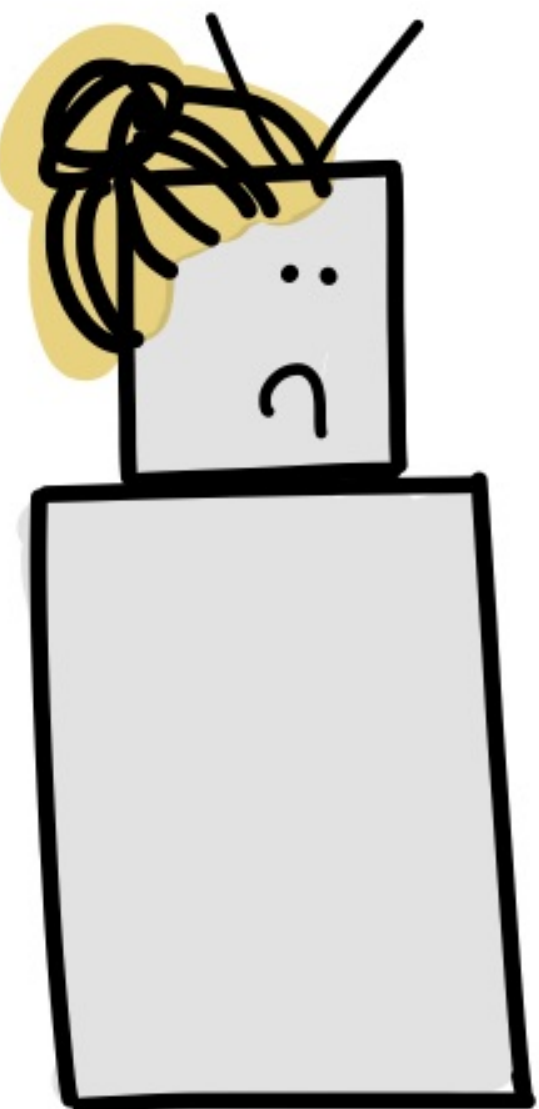




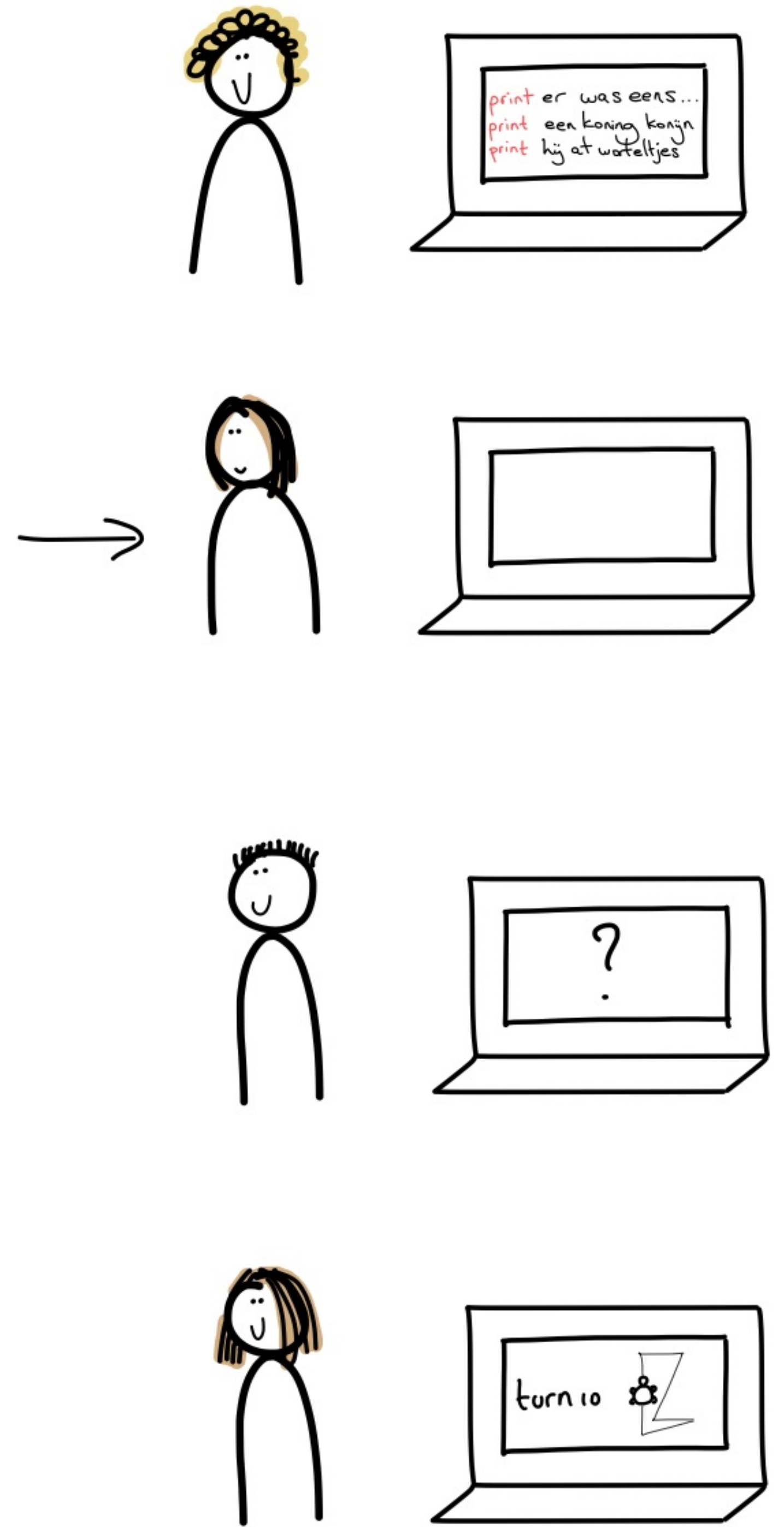
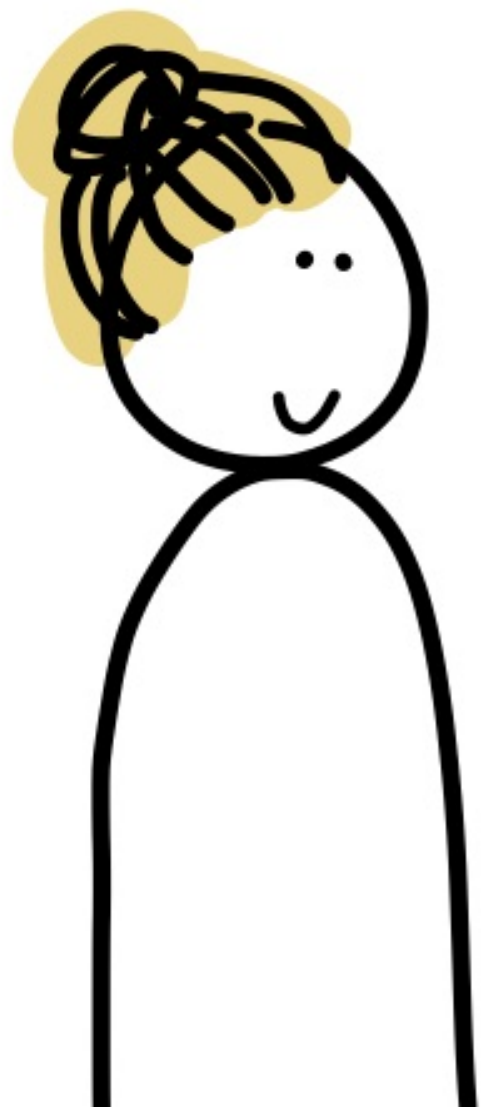
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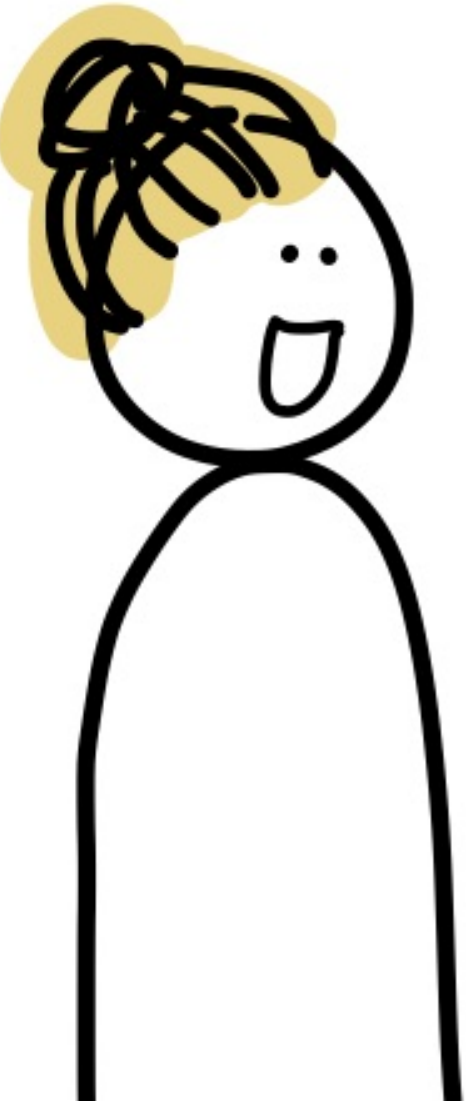




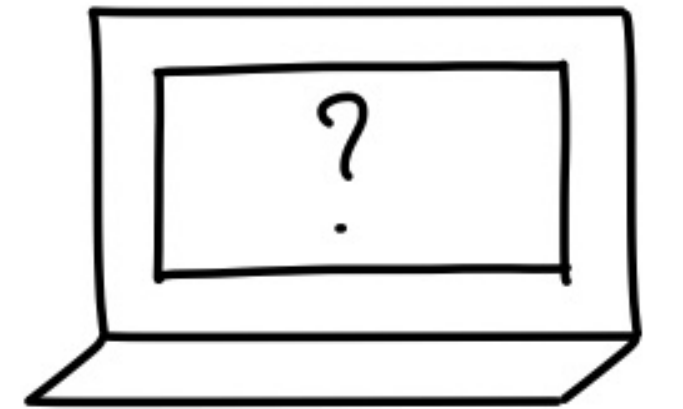
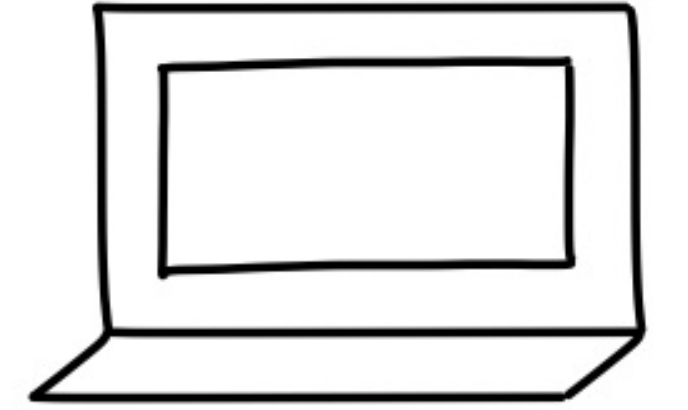


How are you?

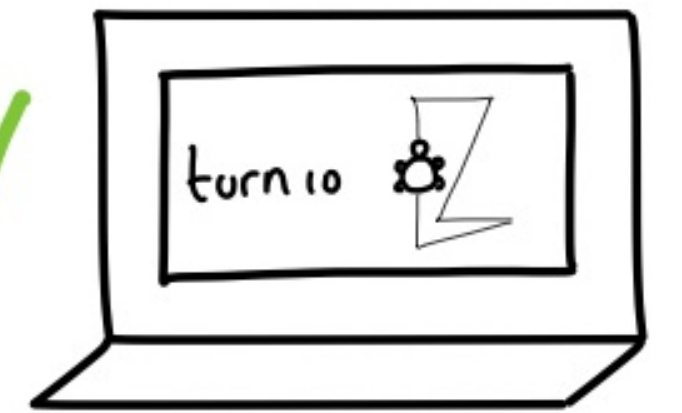
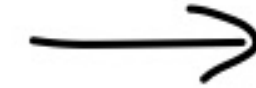




Wow, amazing!!!

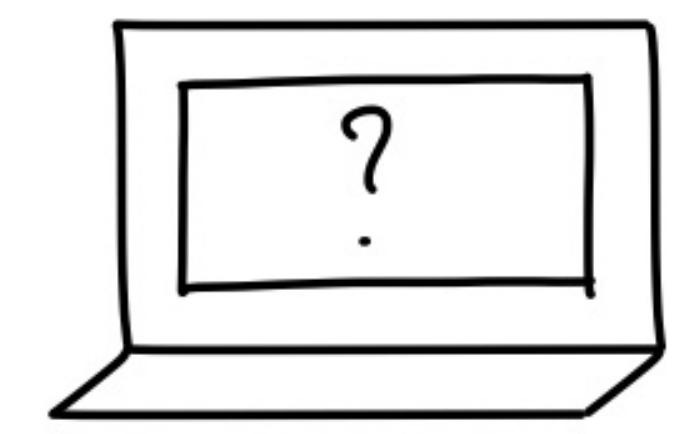
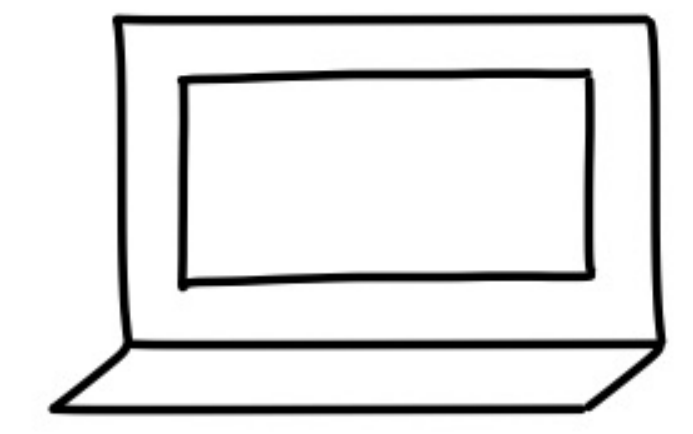
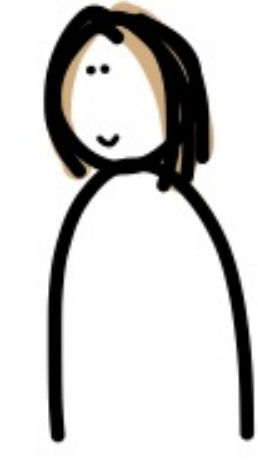
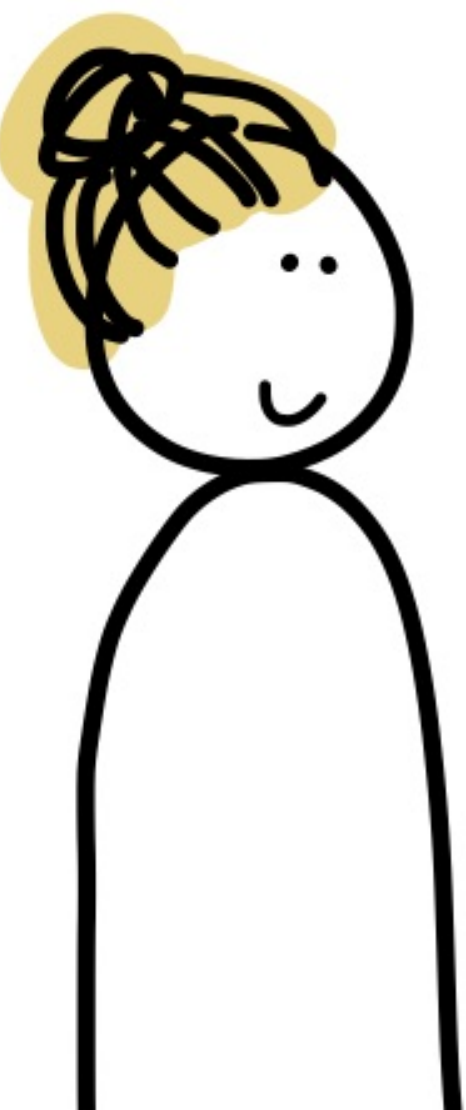


XXXXXX

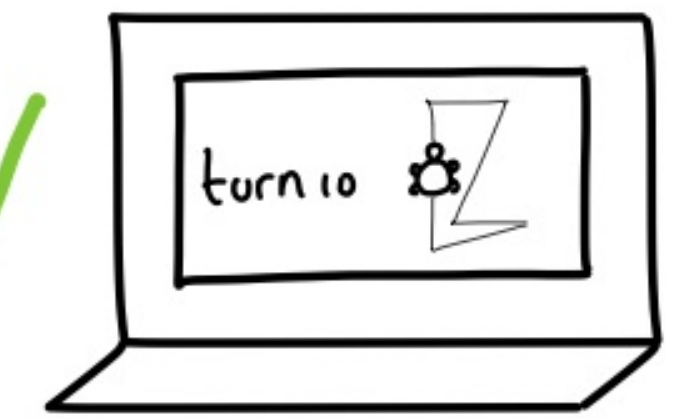
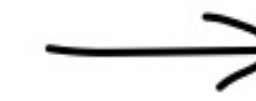


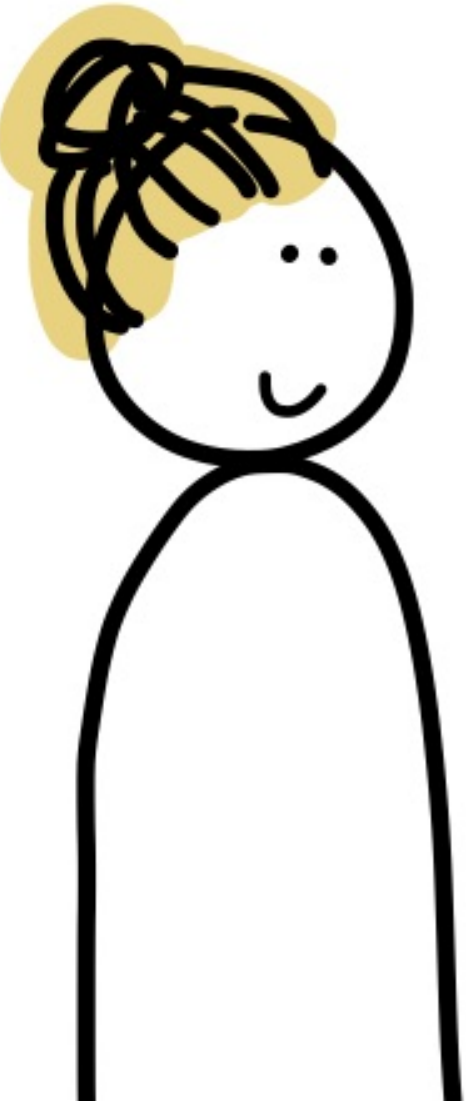


Maybe aim higher!

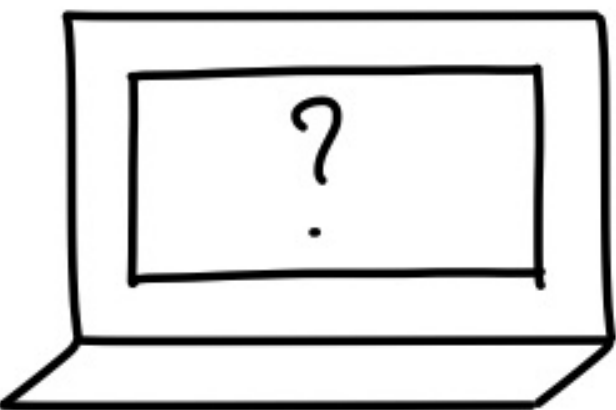
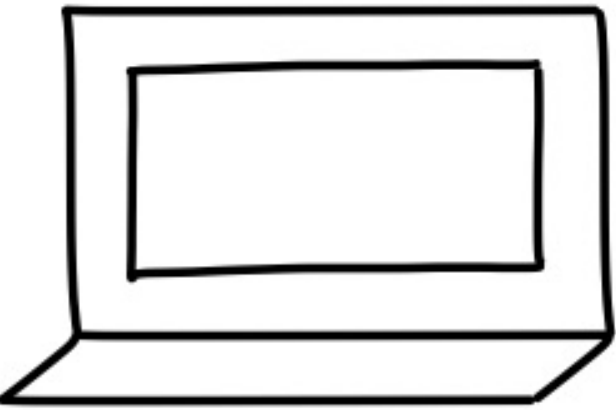
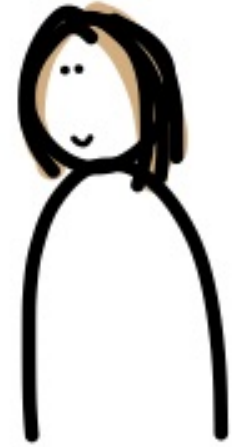


VVVVVVV

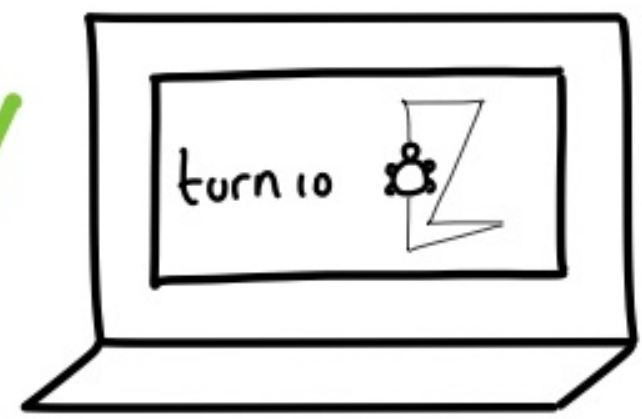




Do your German homework!

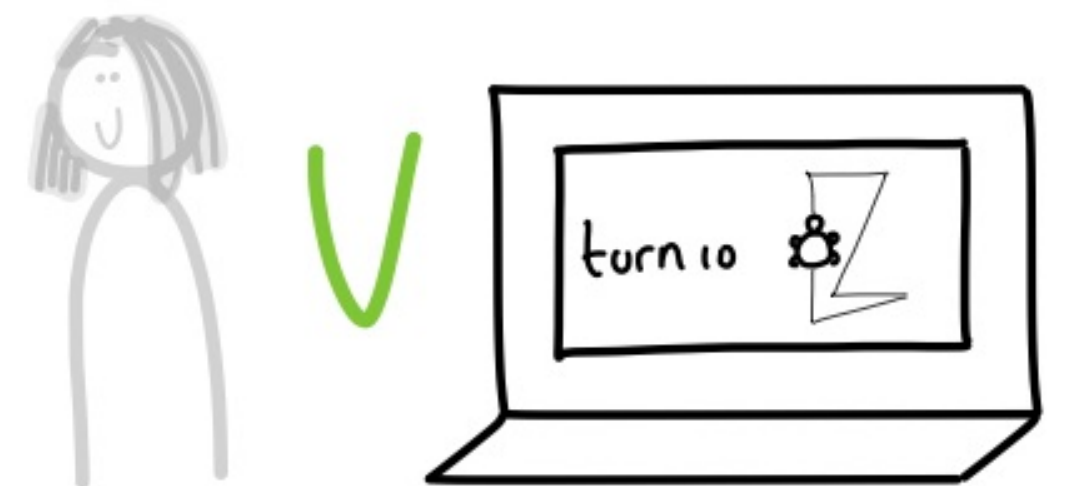
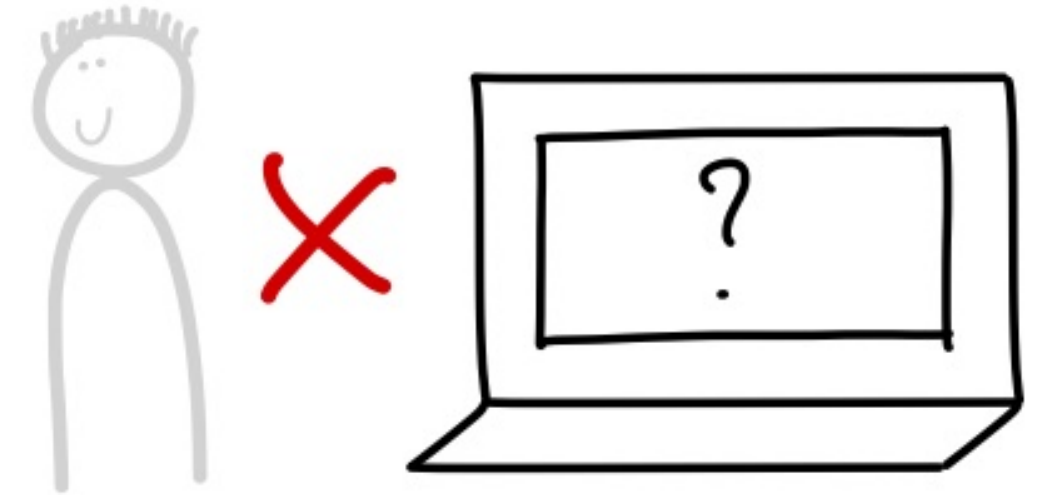
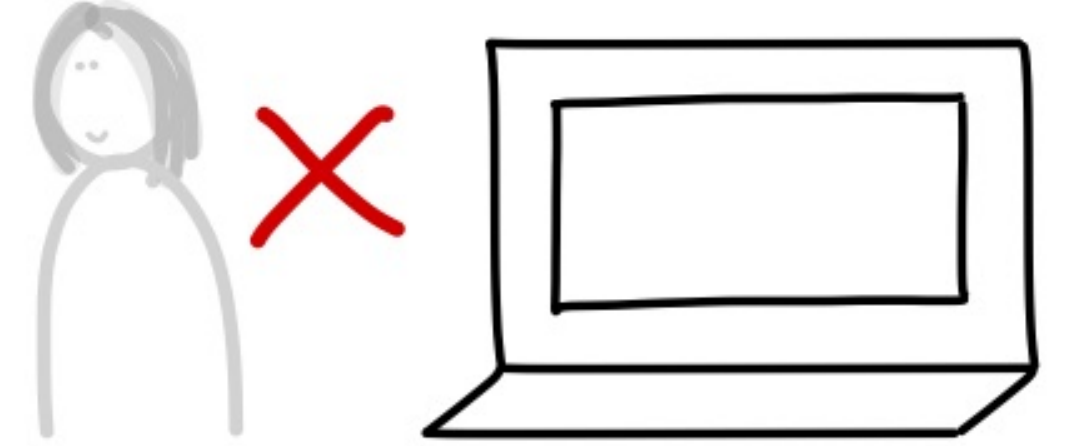
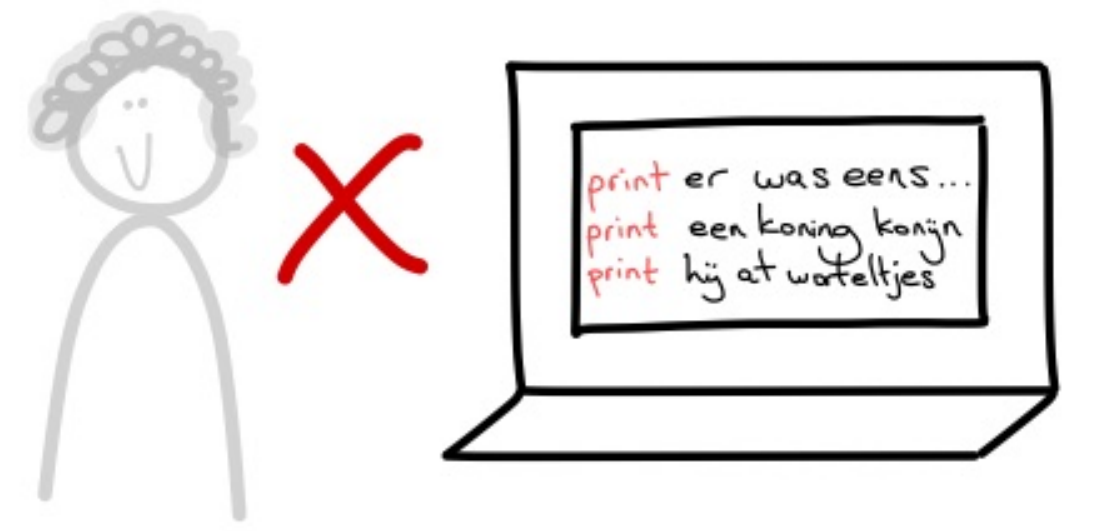
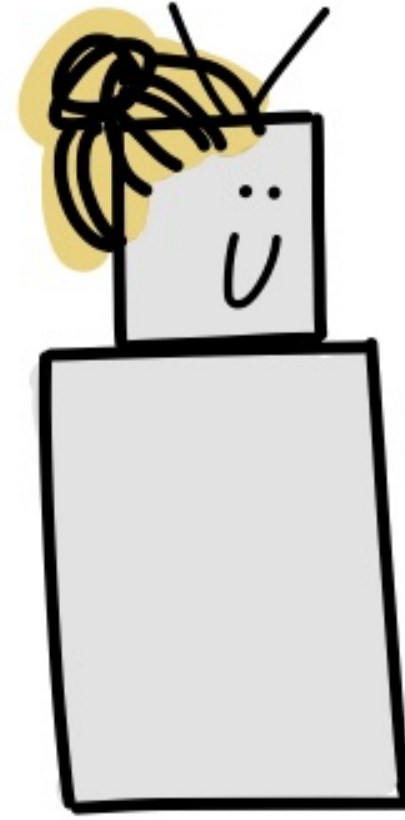
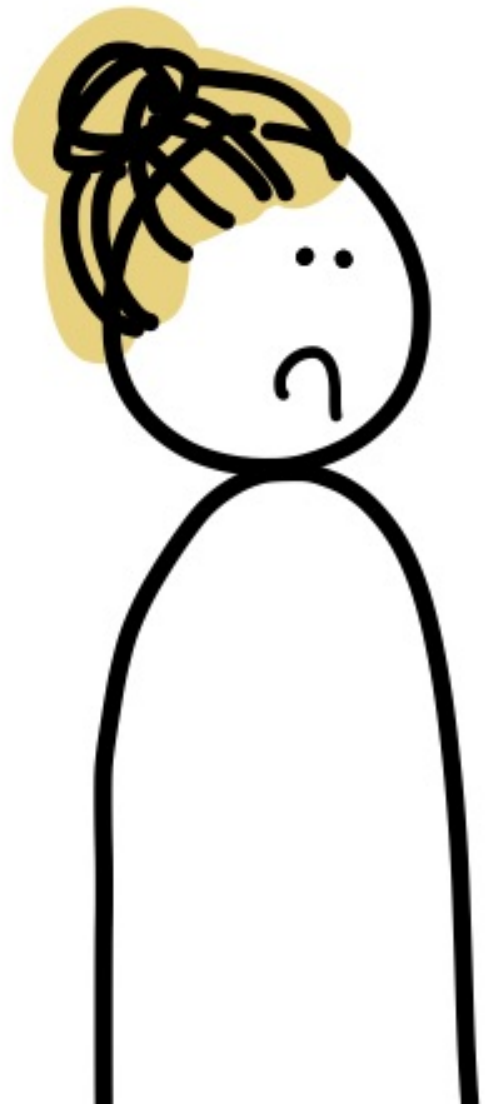


VVVVVVV

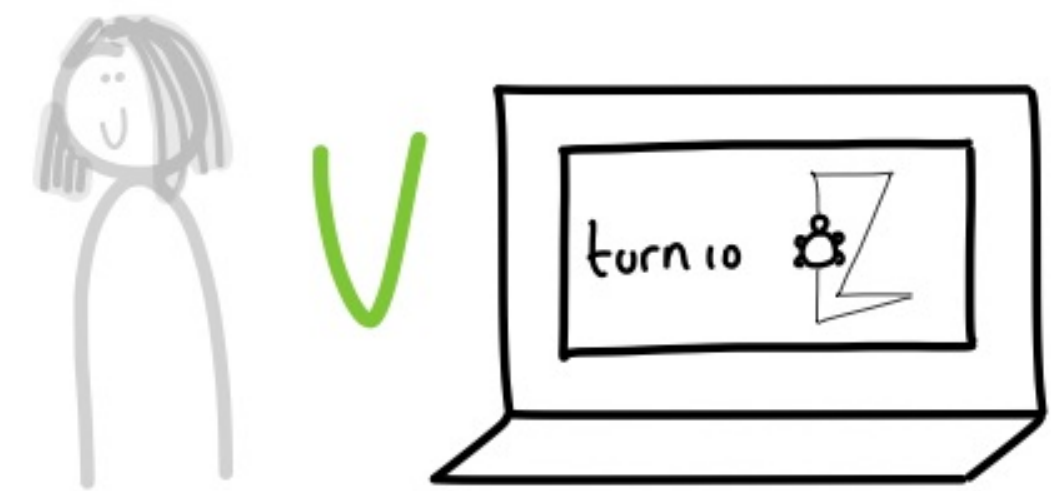
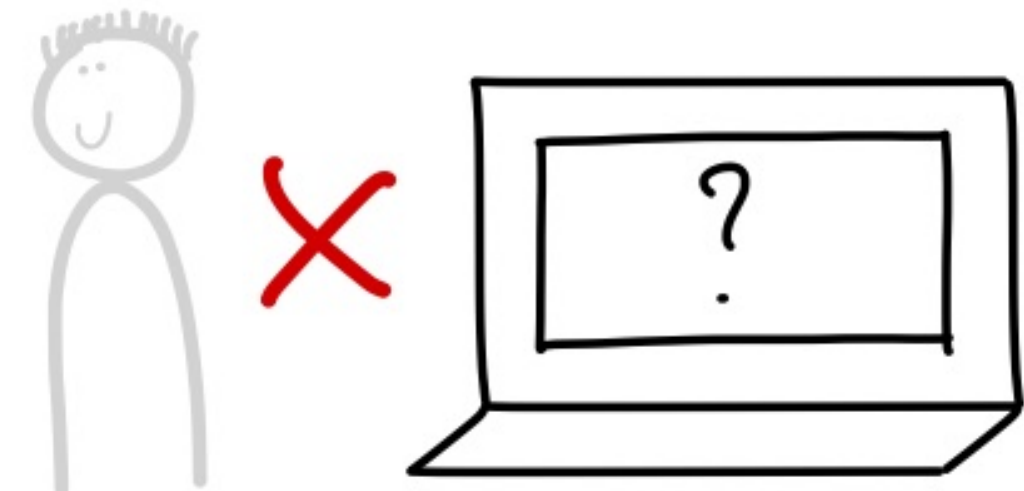
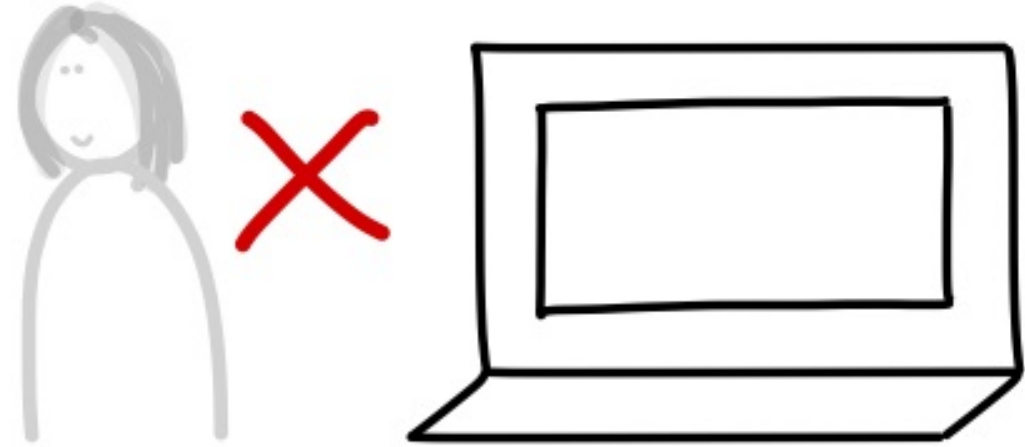
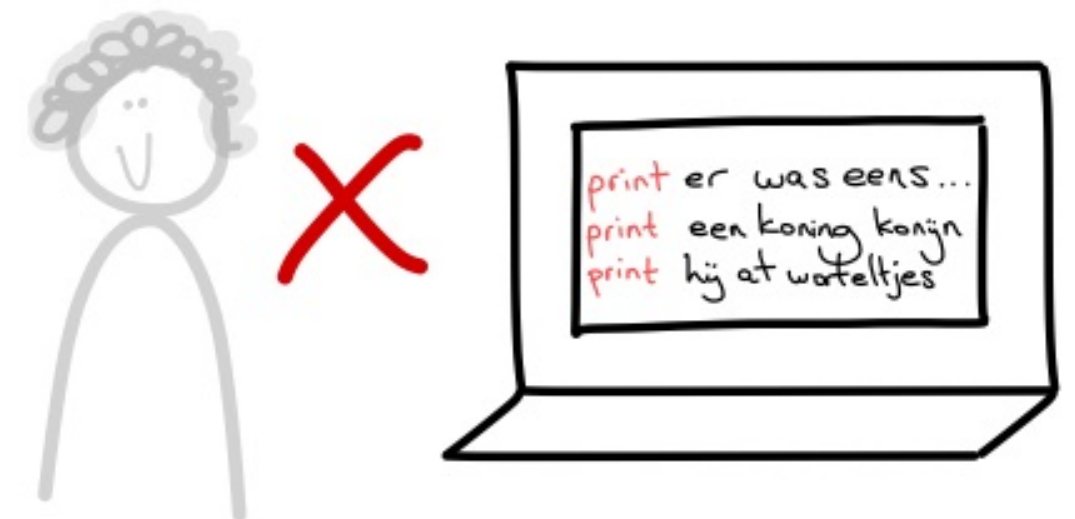
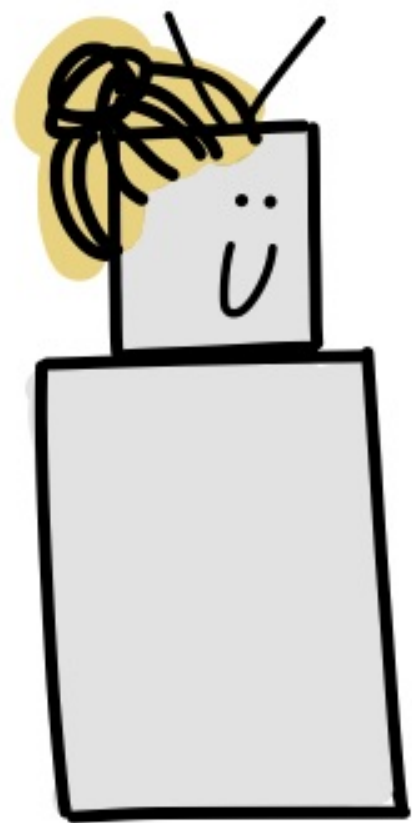
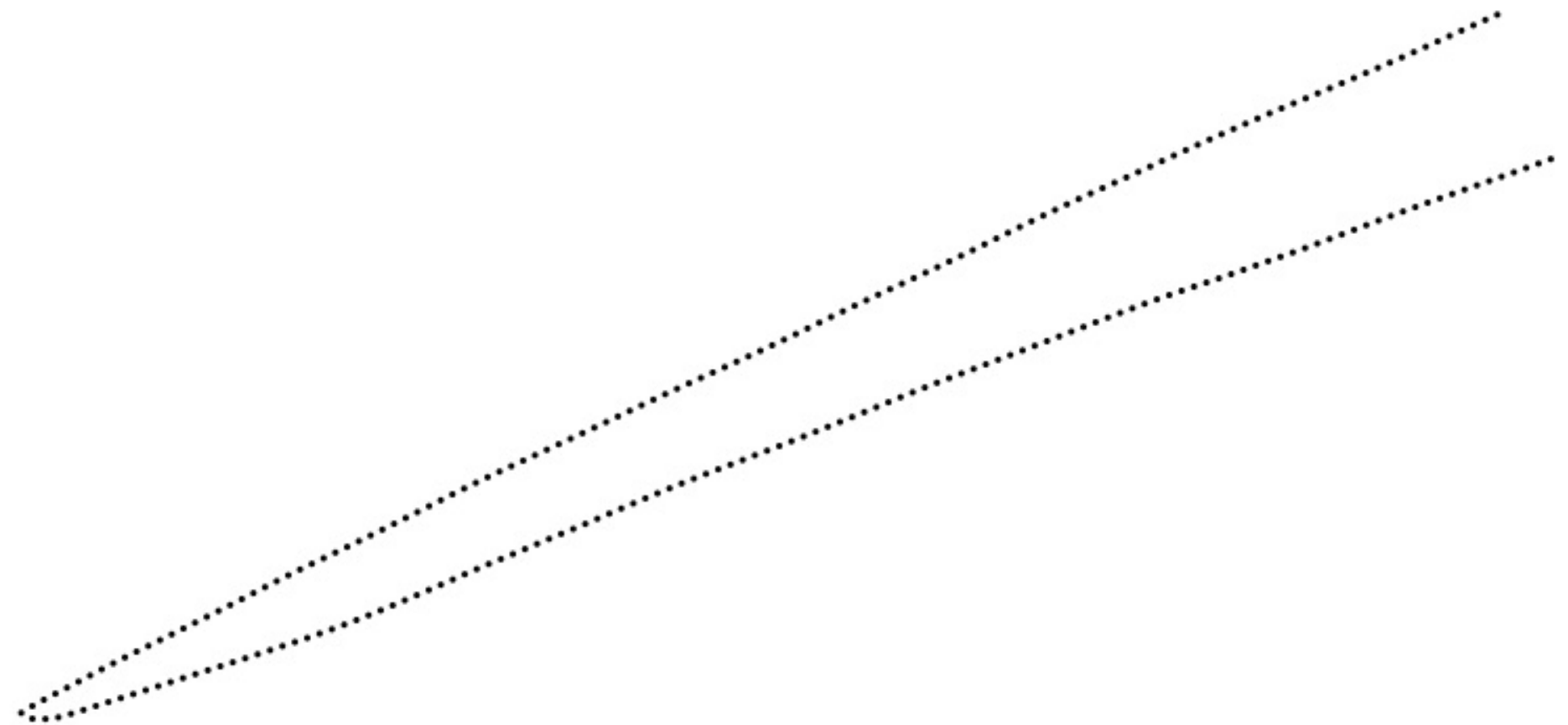
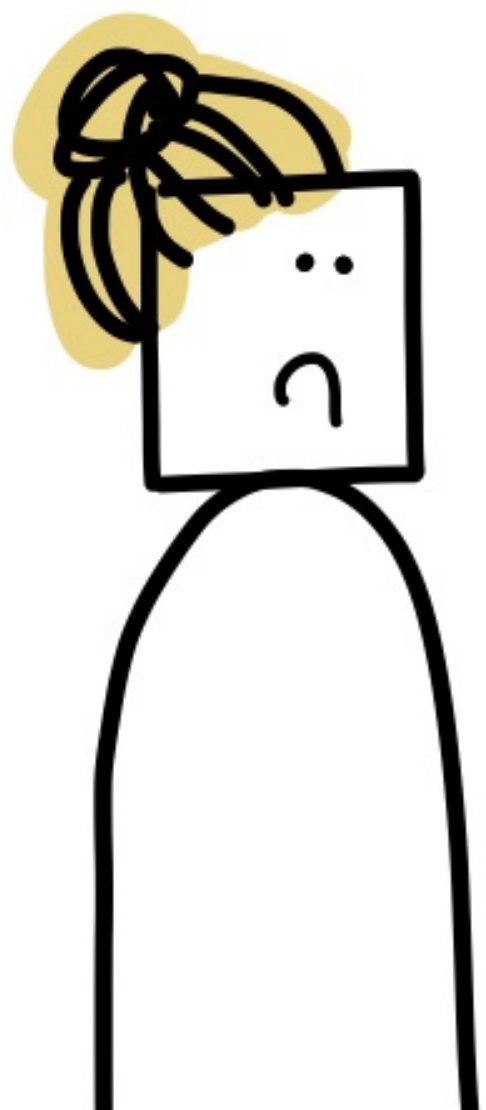


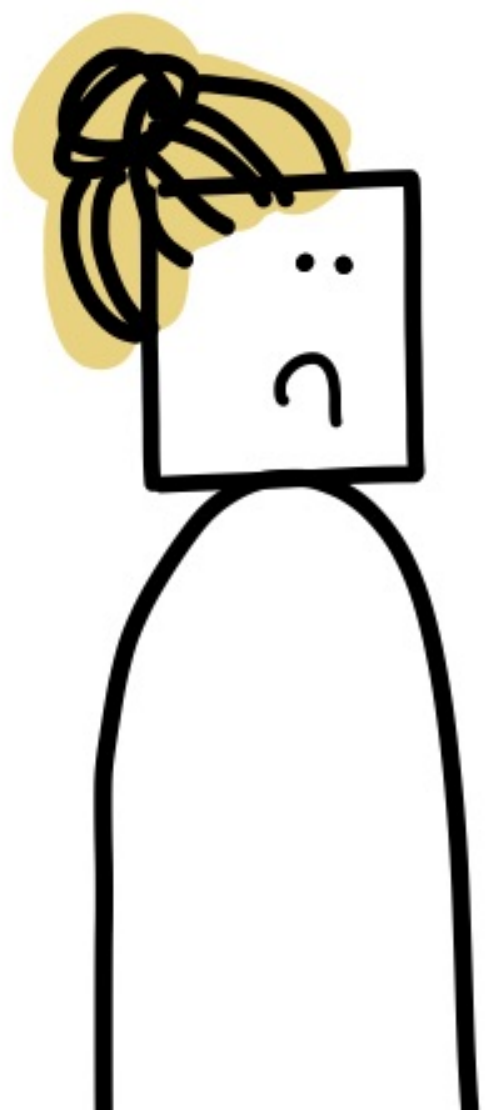
Looks at output

Limited vocabulary



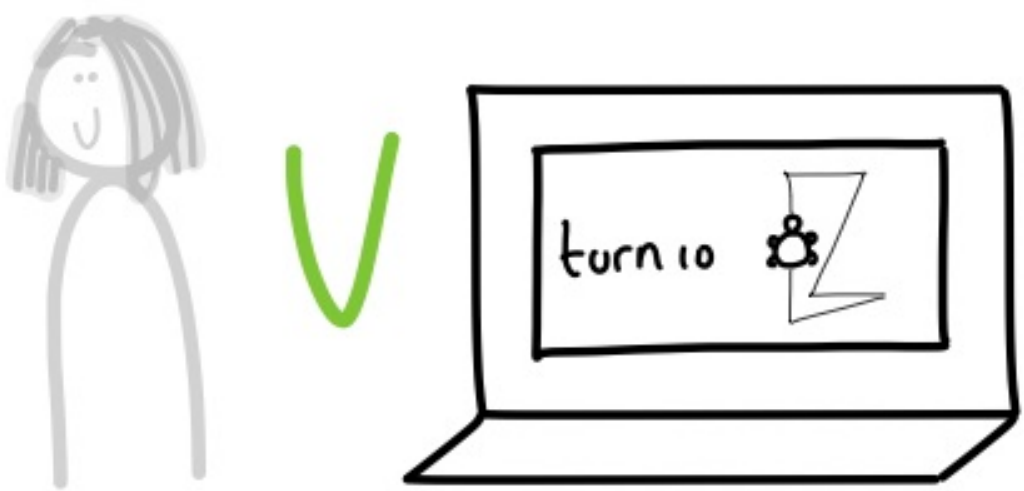
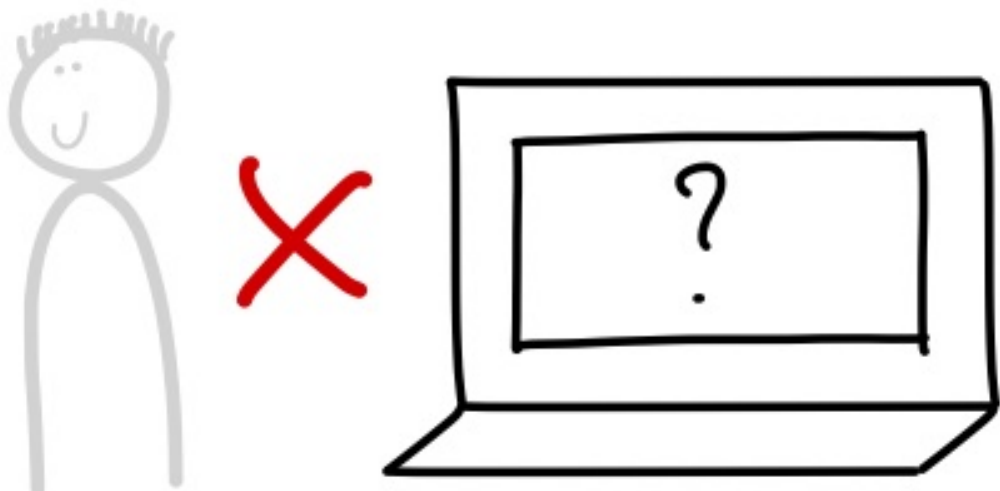
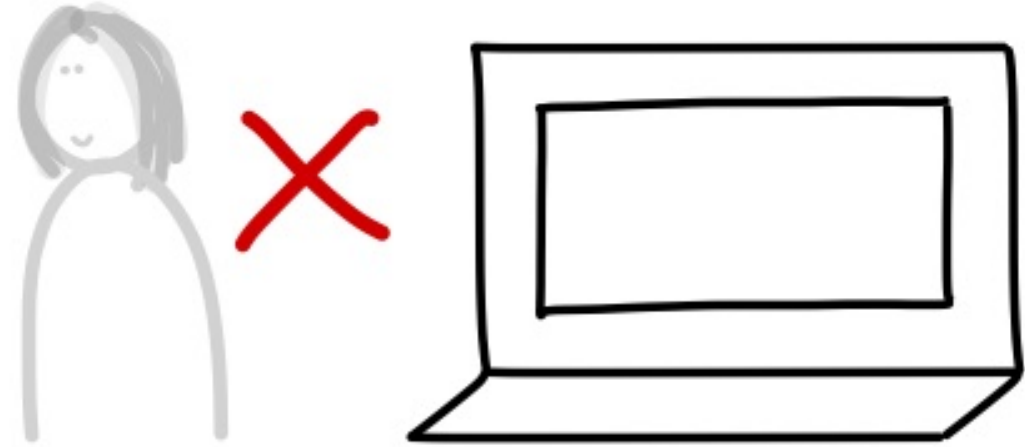
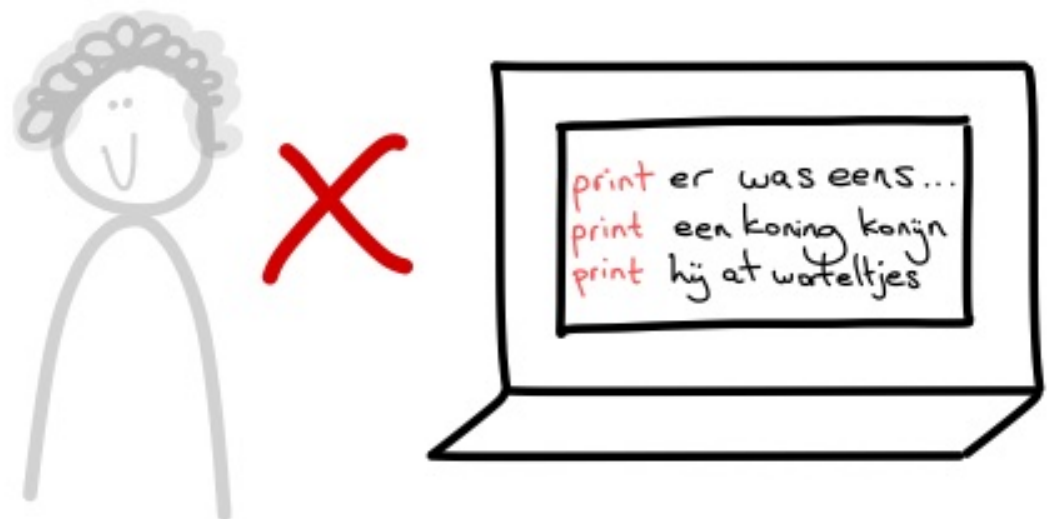


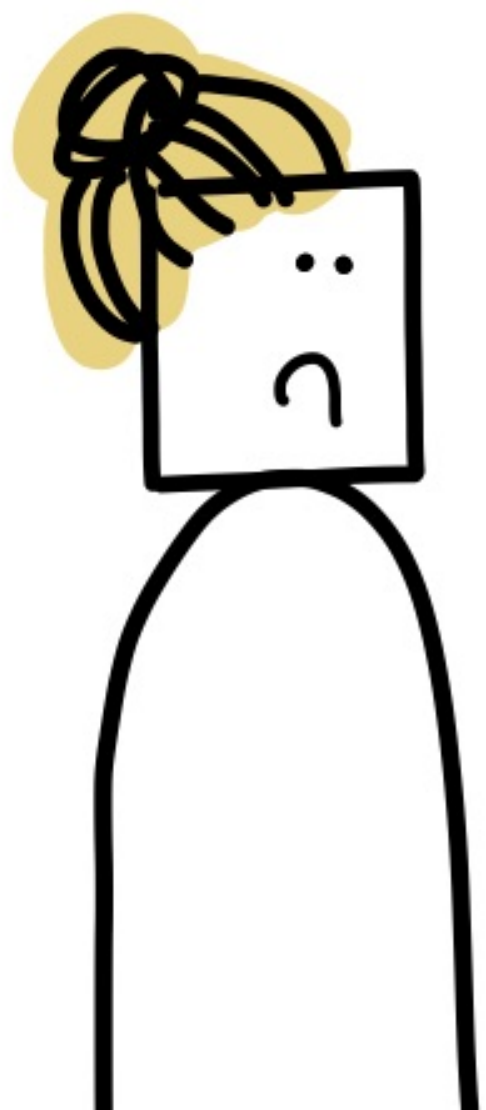




# Magister.

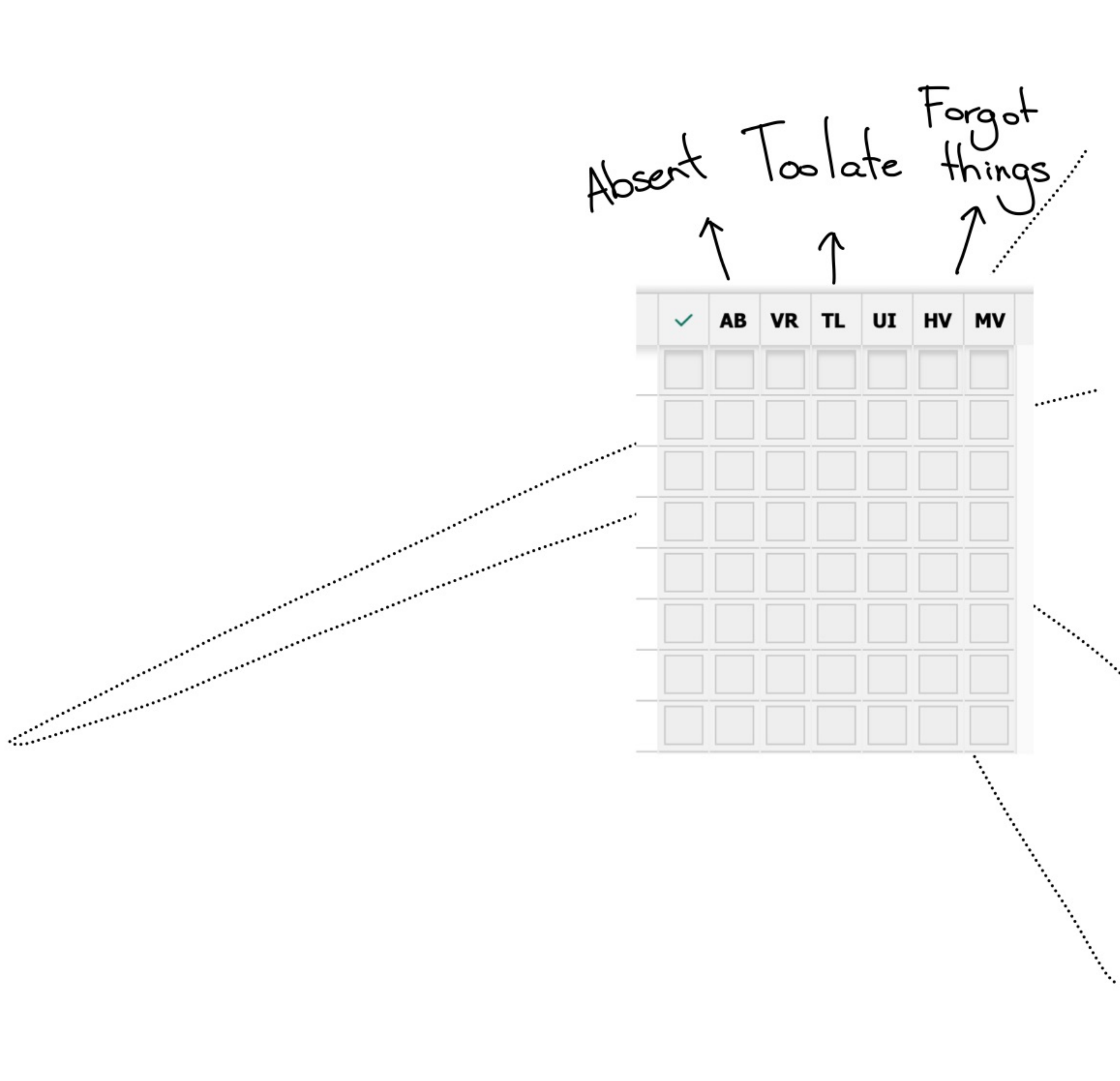
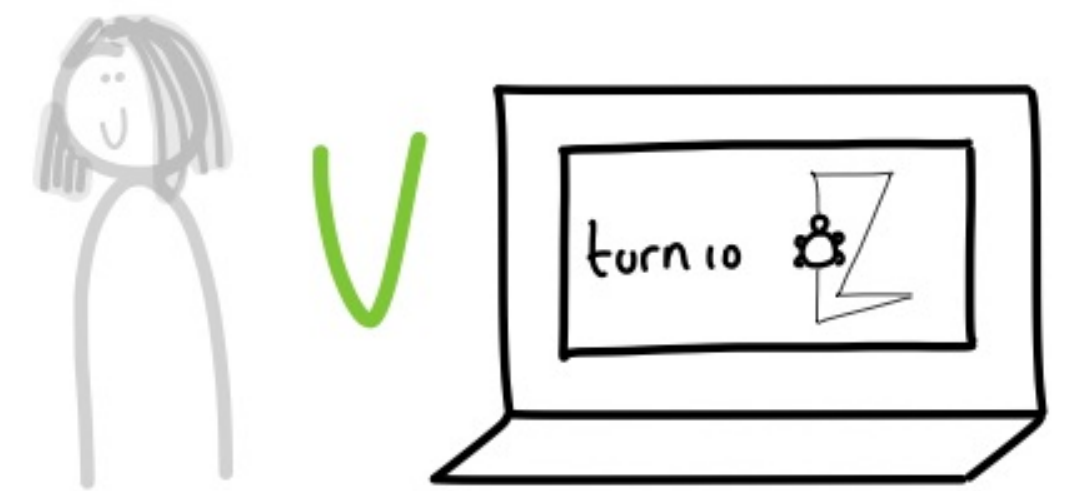
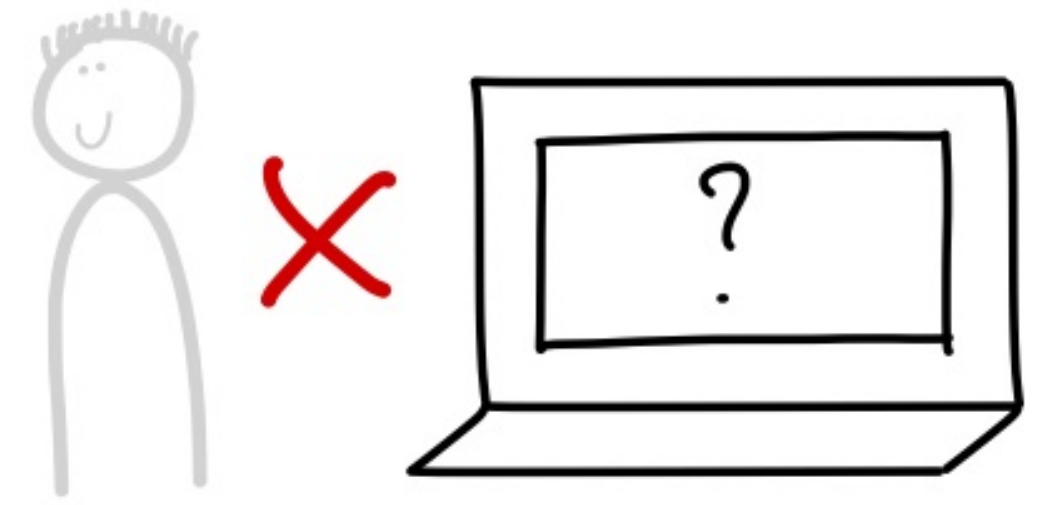
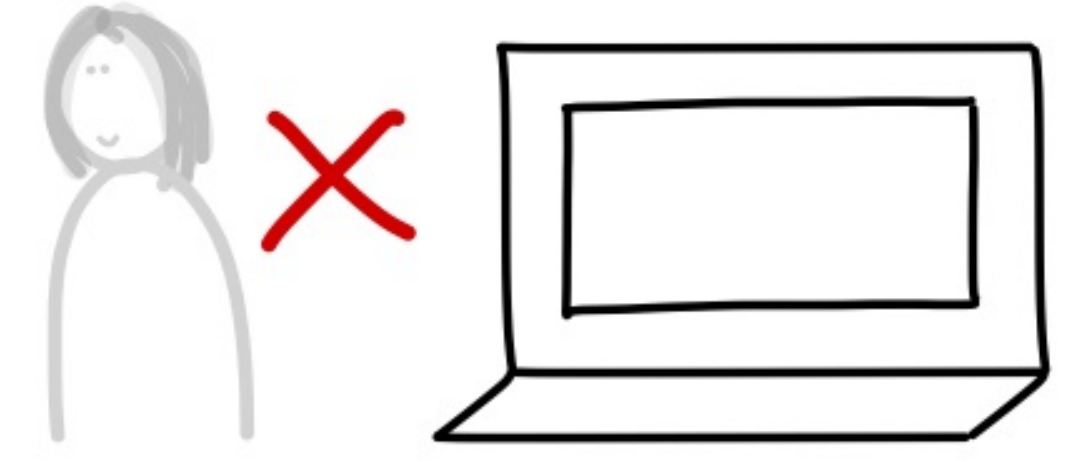
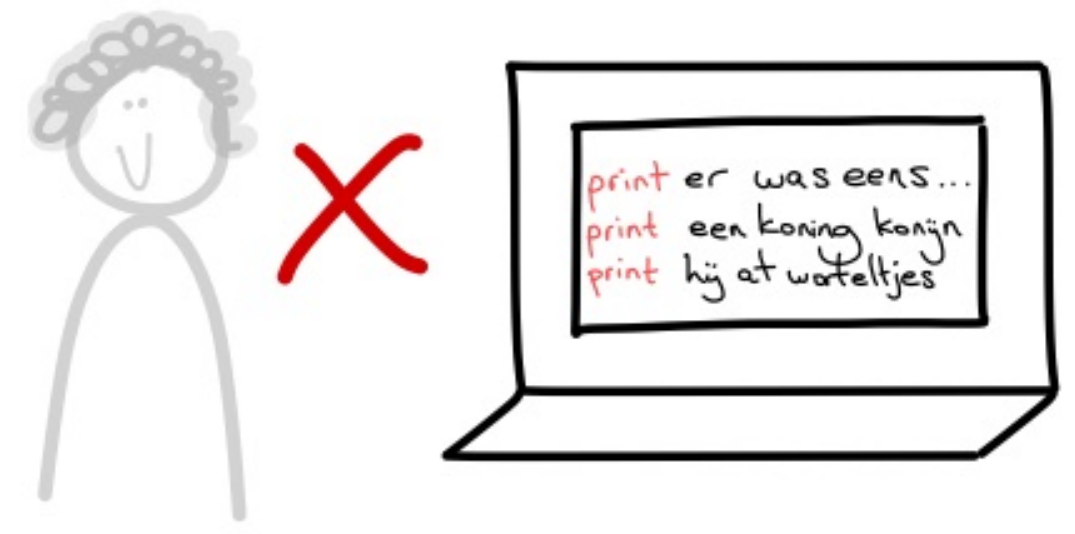
- 🏠 Vandaag
- 📖 Leerlingen
- 👥 Personeel





Absent Too late Forgot things

✓	AB	VR	TL	UI	HV	MV

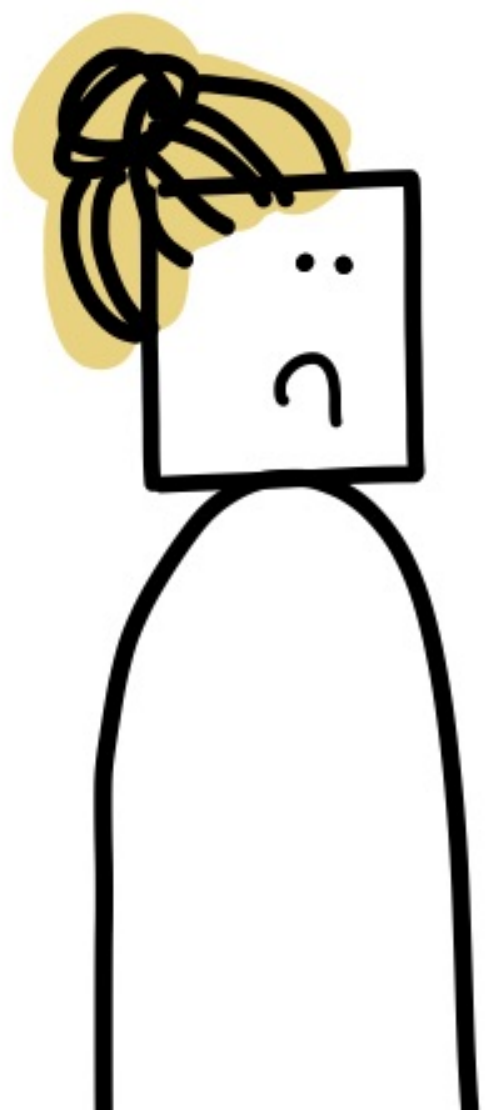
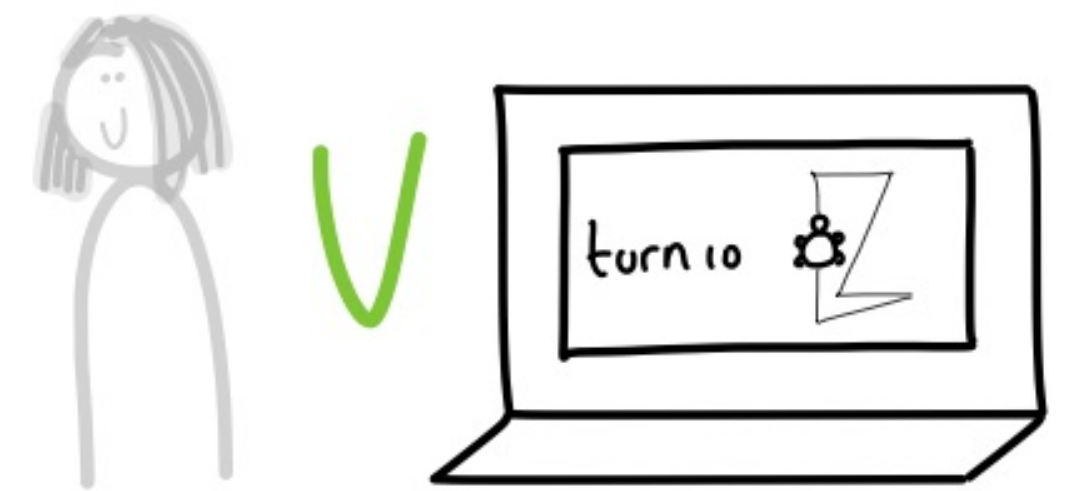
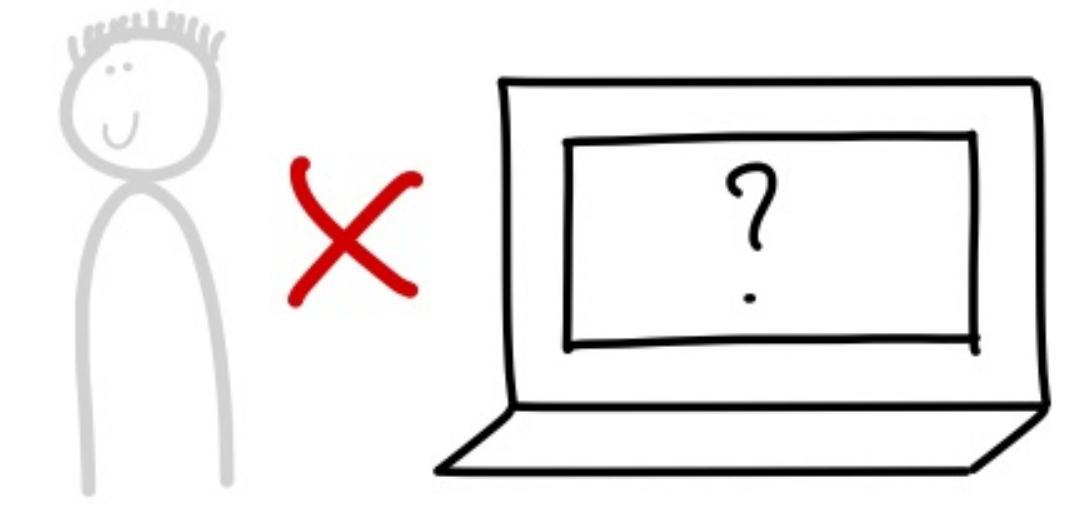
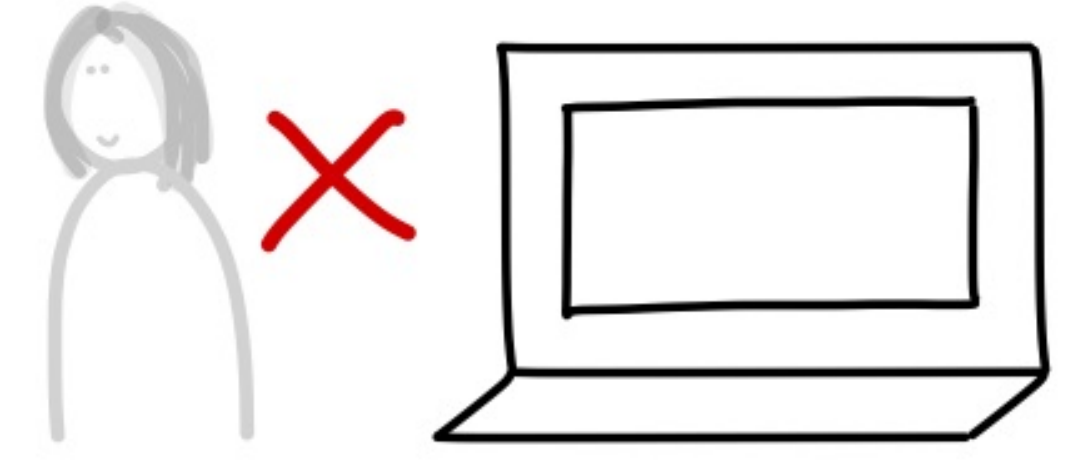
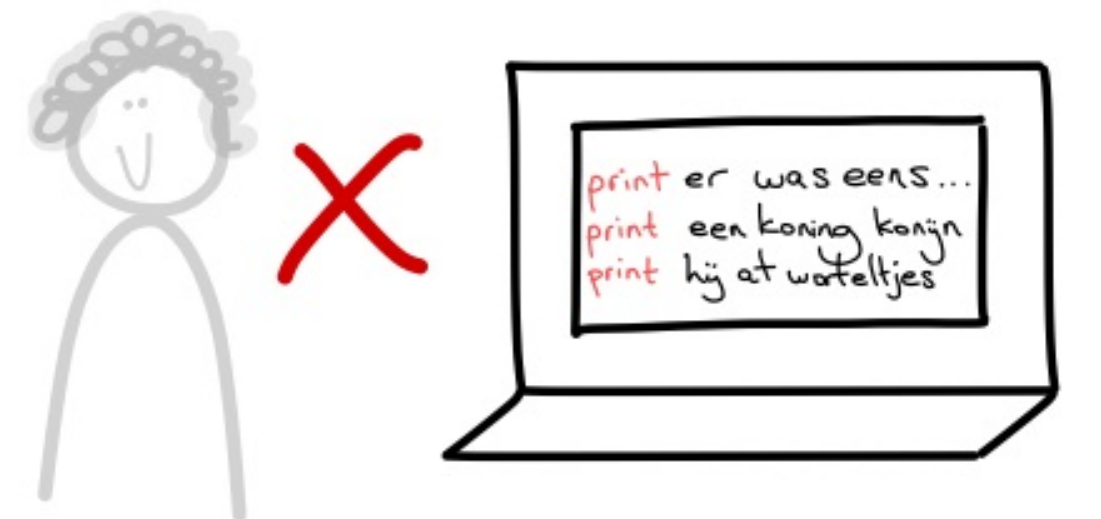


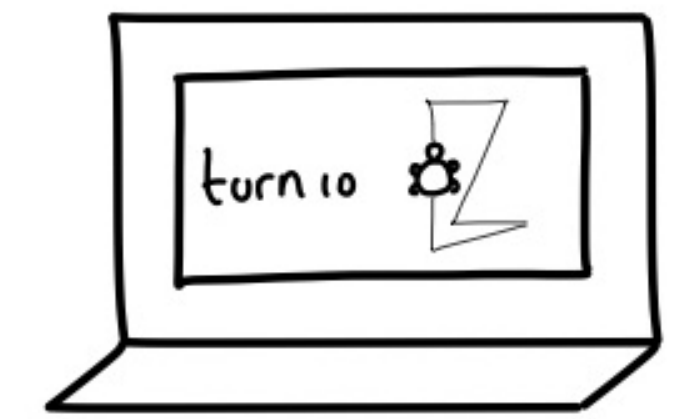
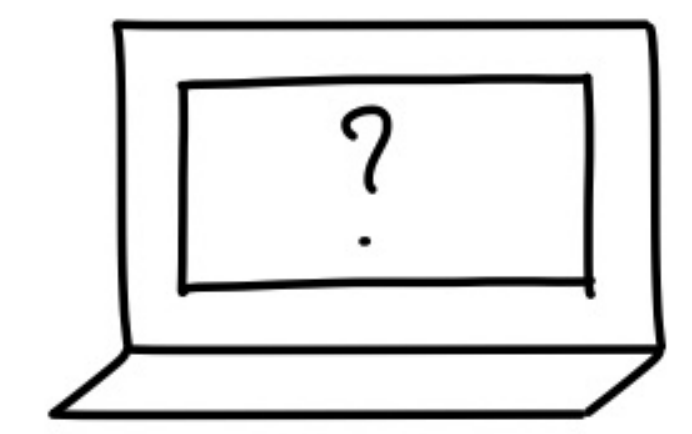
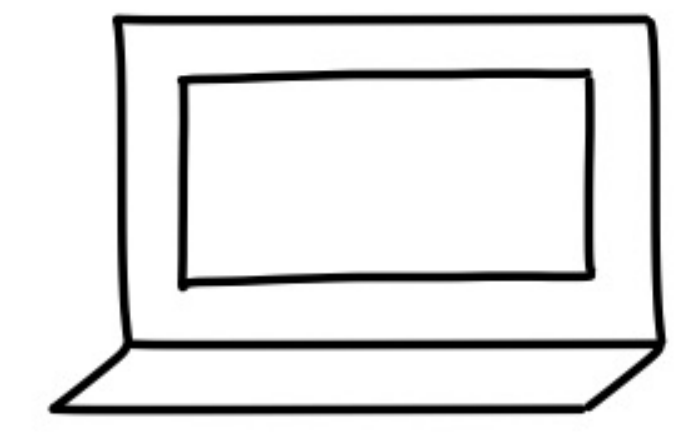
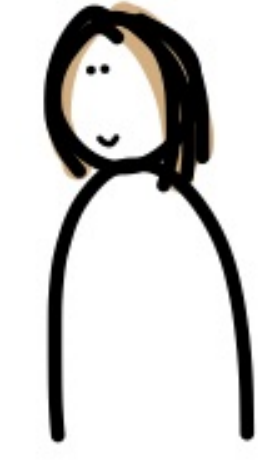
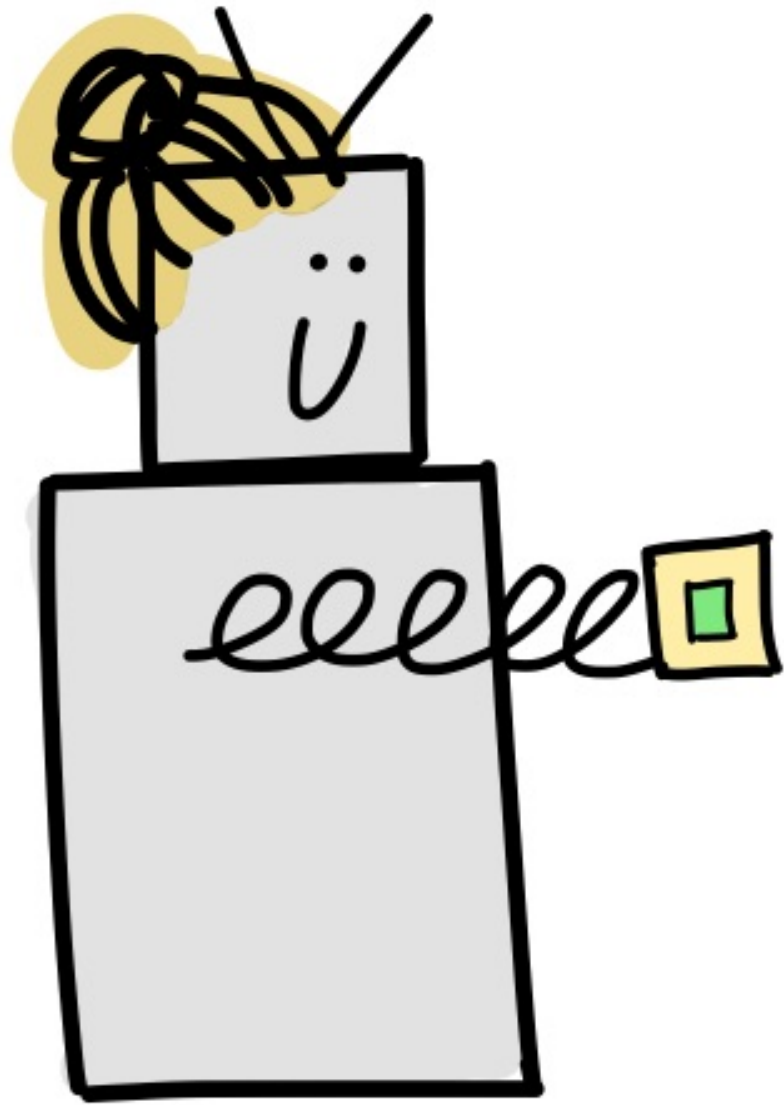


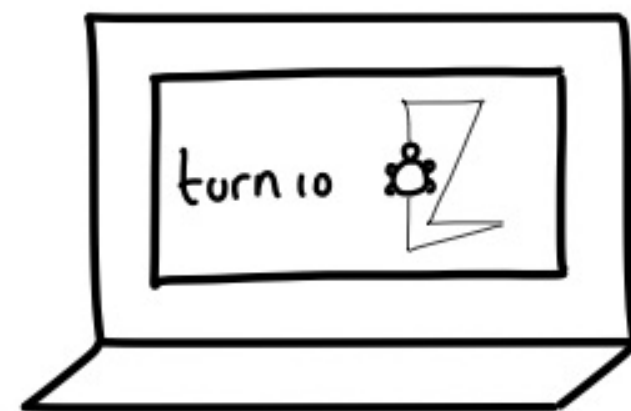
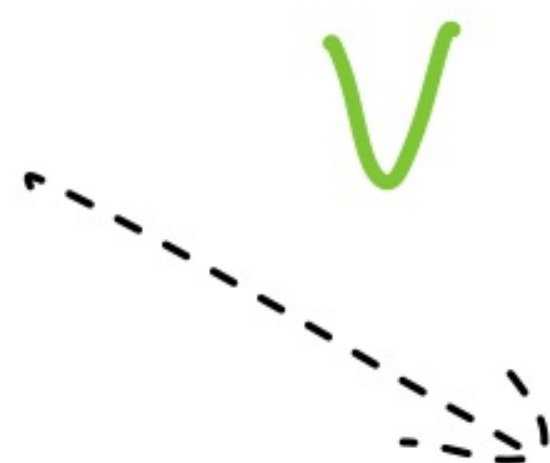
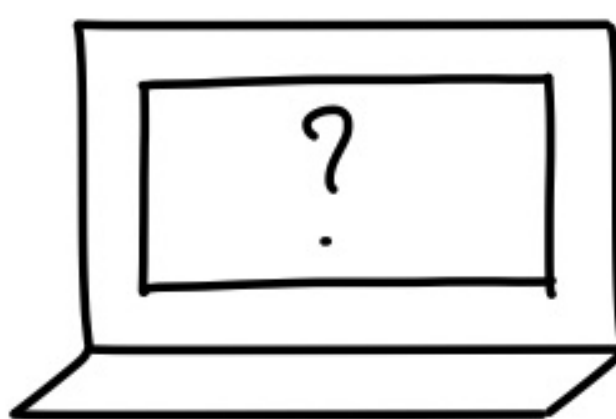
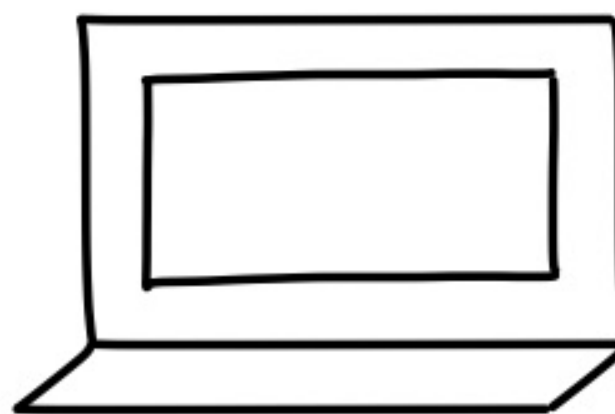
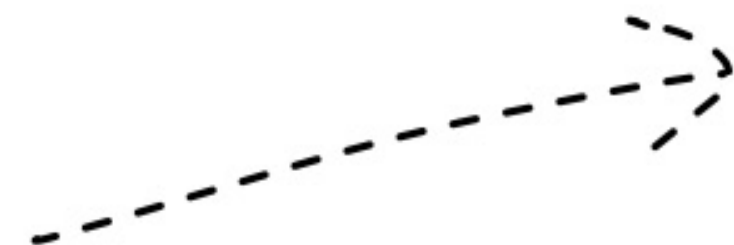
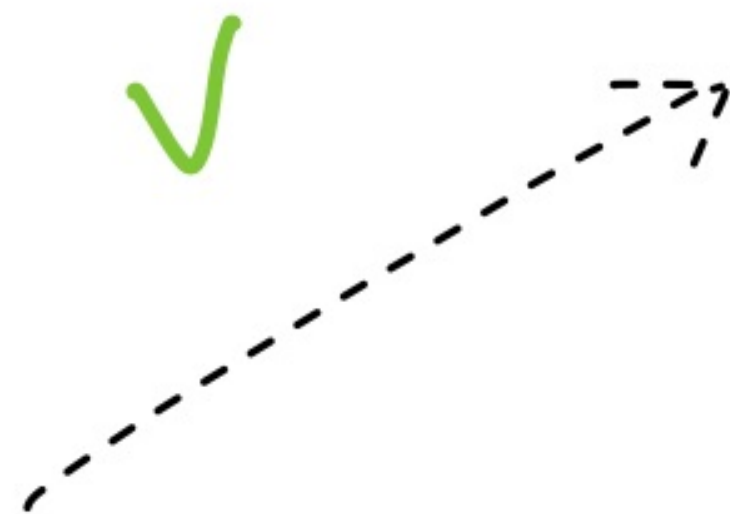
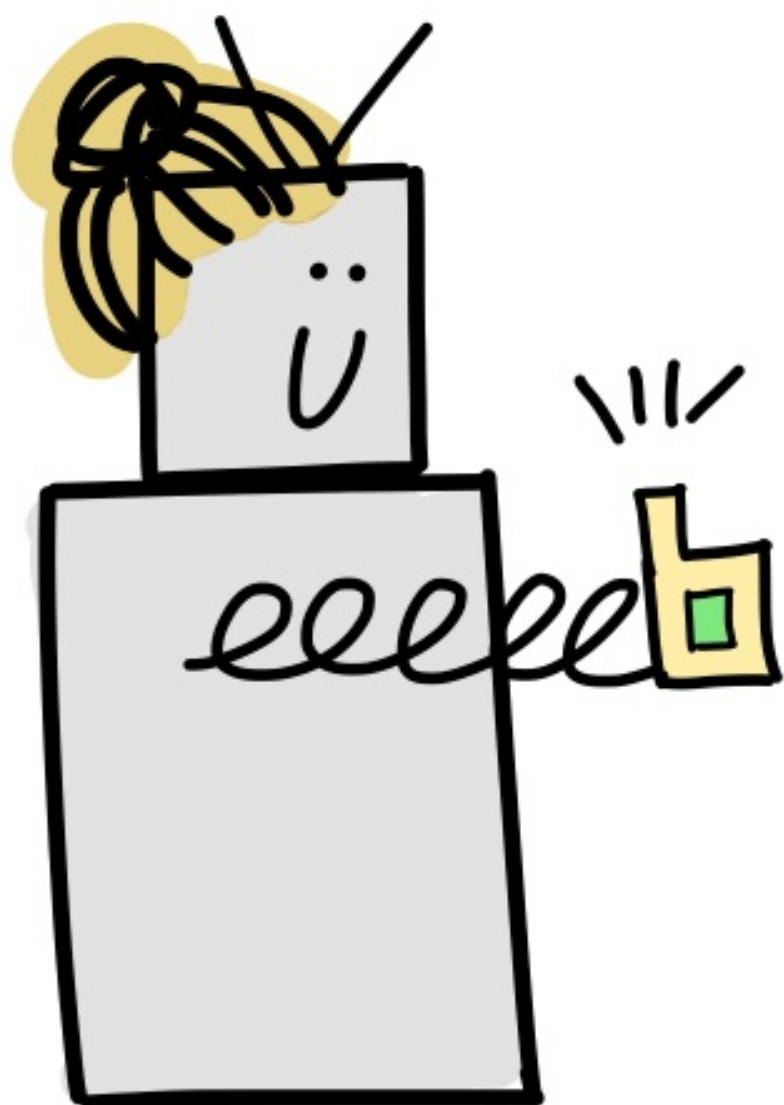
Compliments?  
Consoling? ←  
Encouragements?

Absent Too late Forgot things

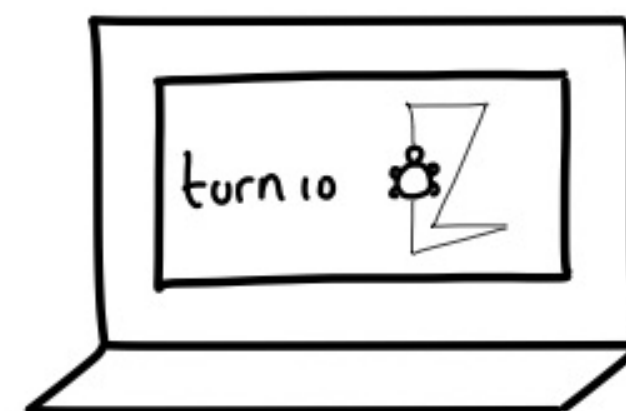
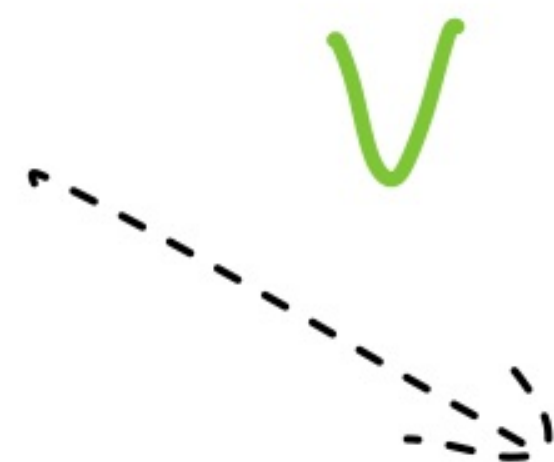
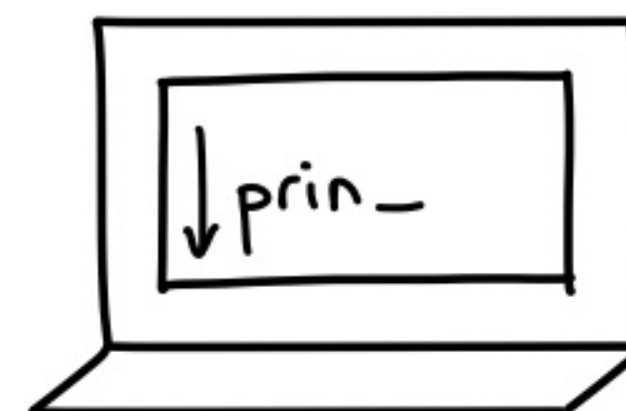
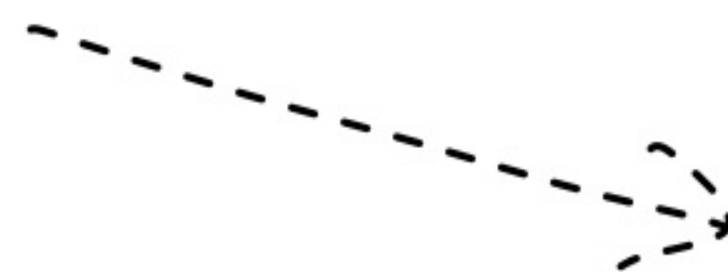
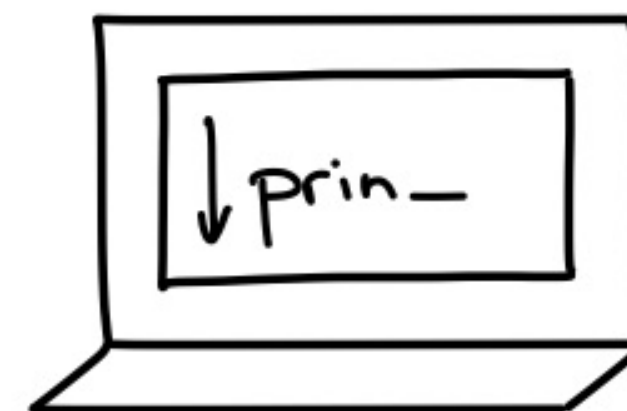
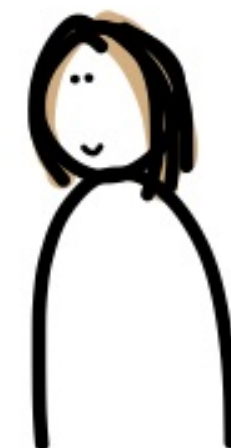
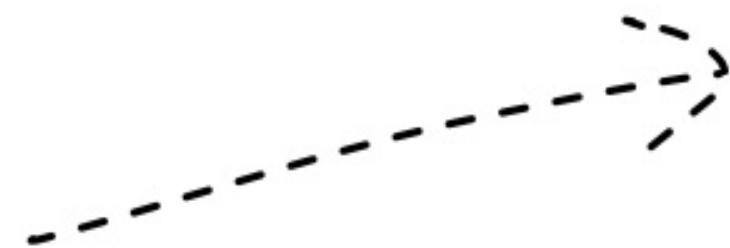
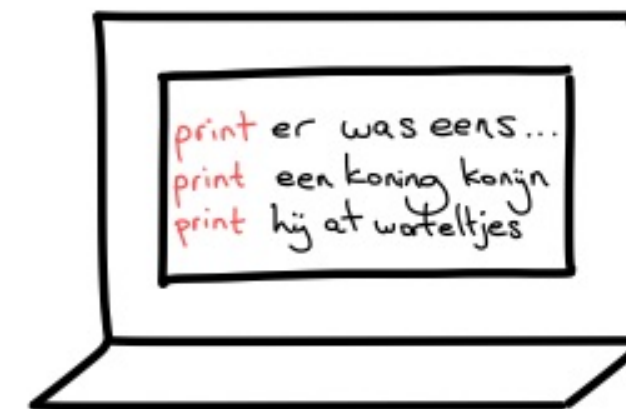
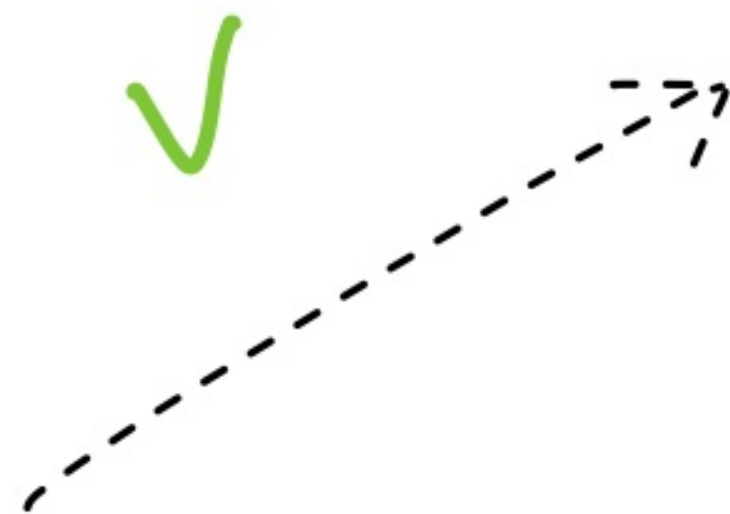
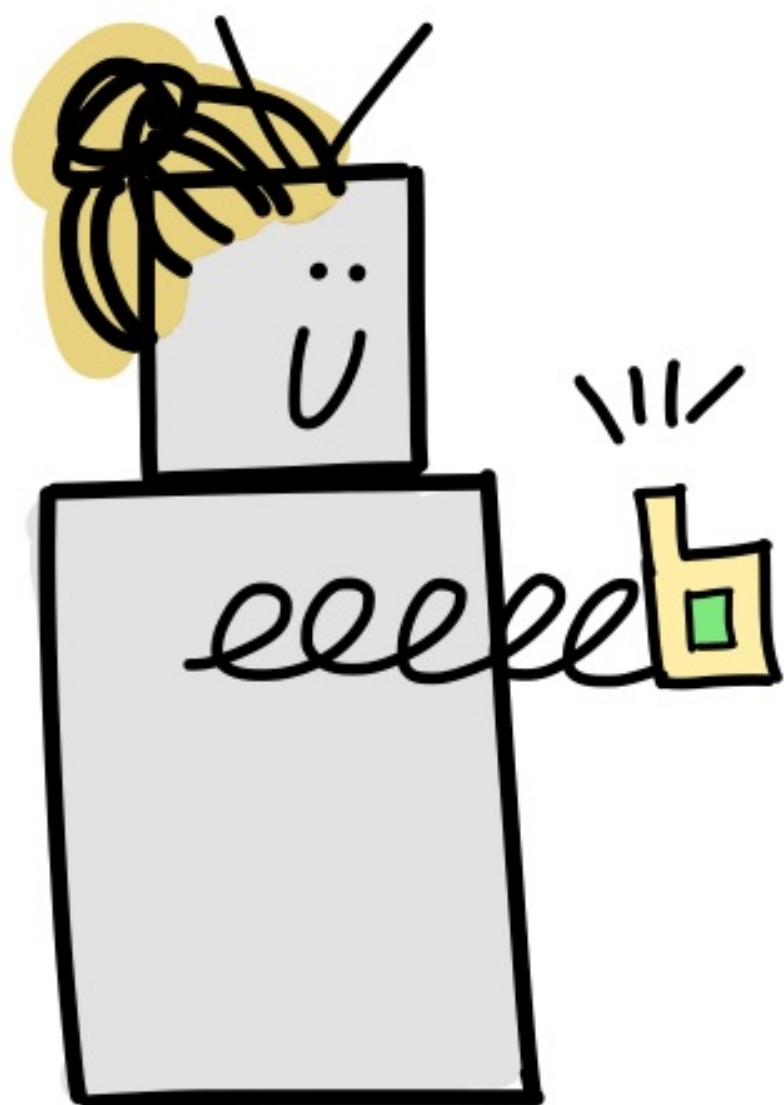
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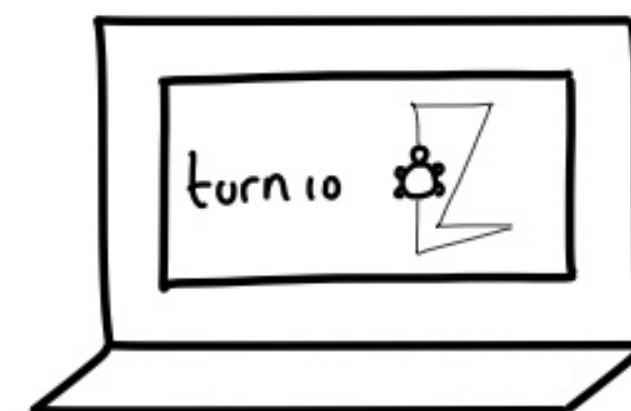
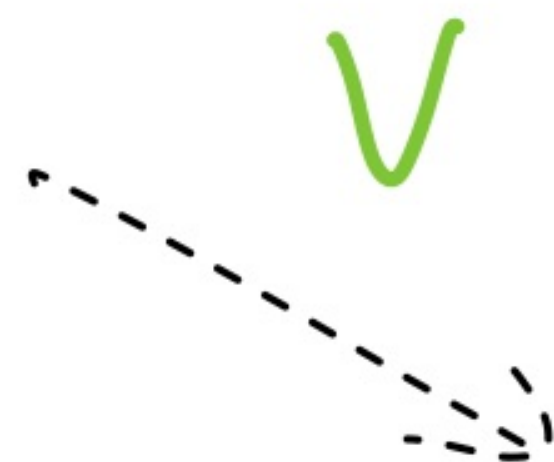
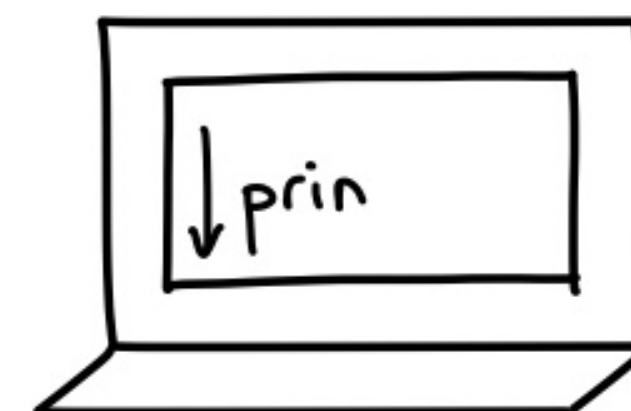
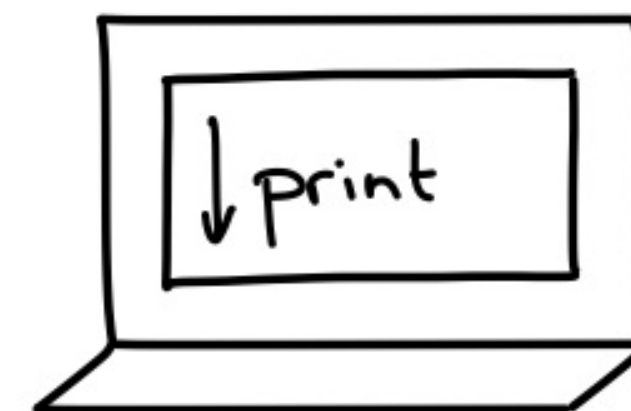
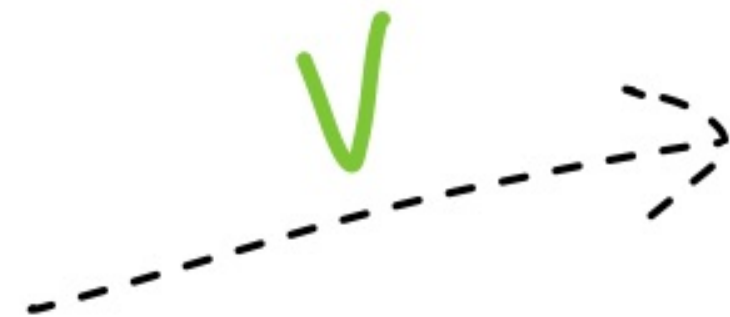
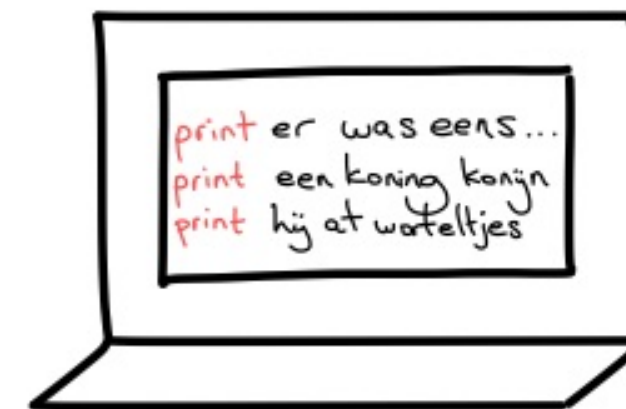
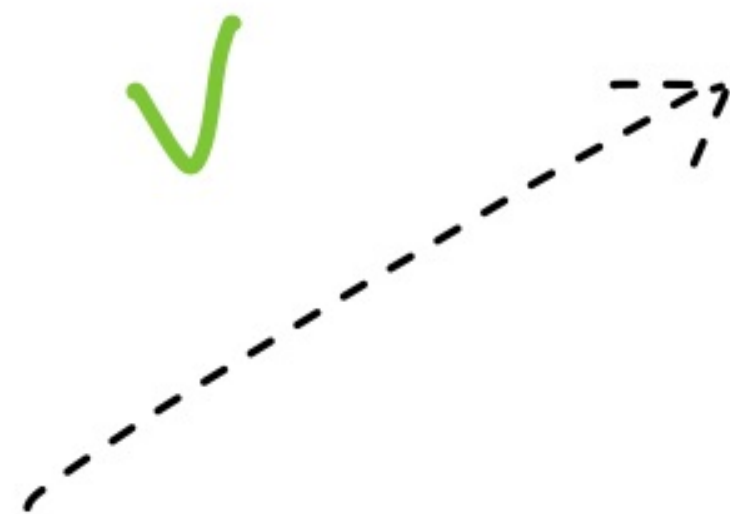
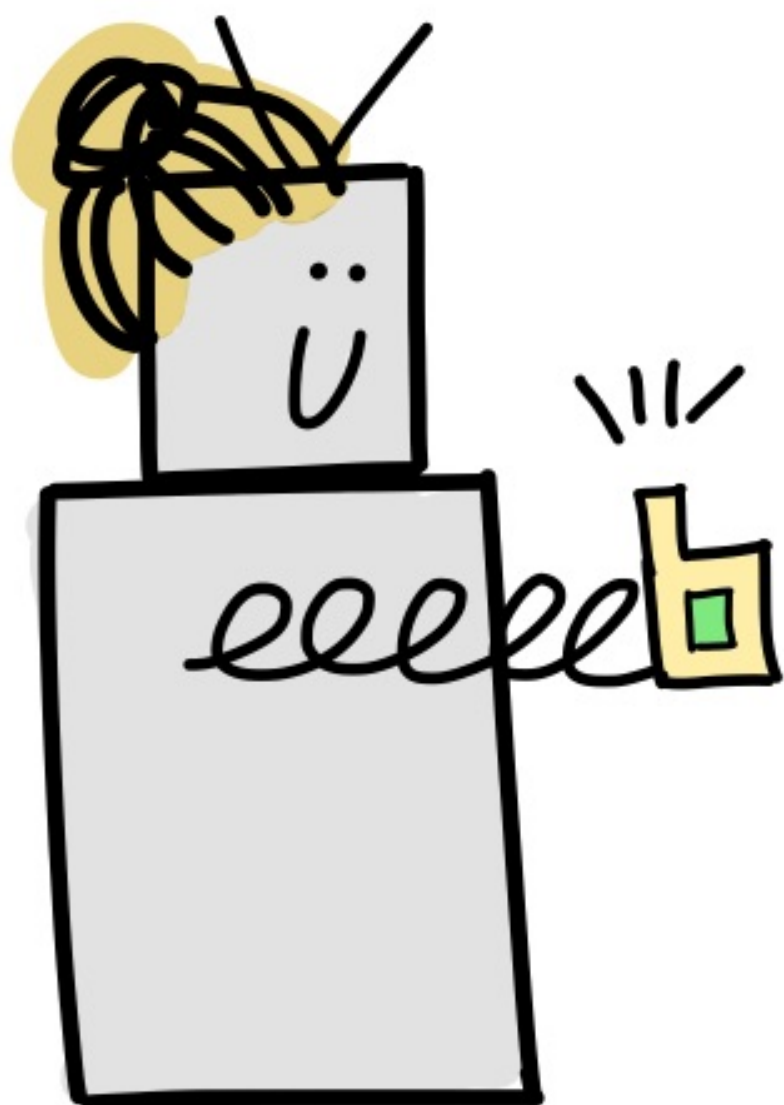


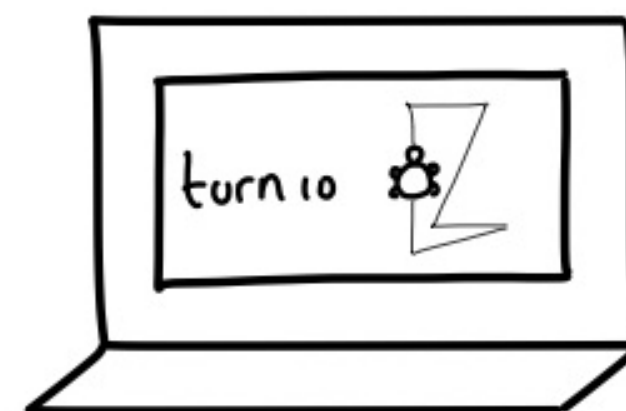
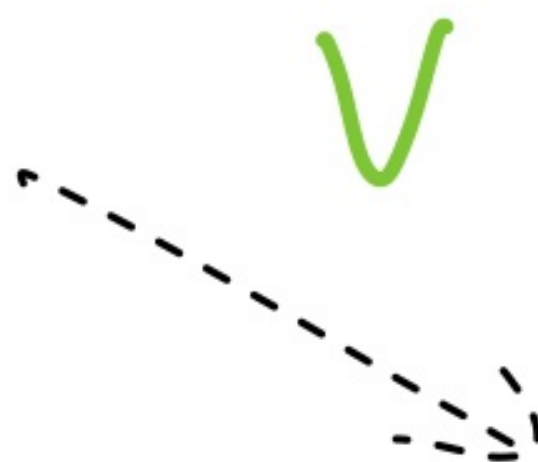
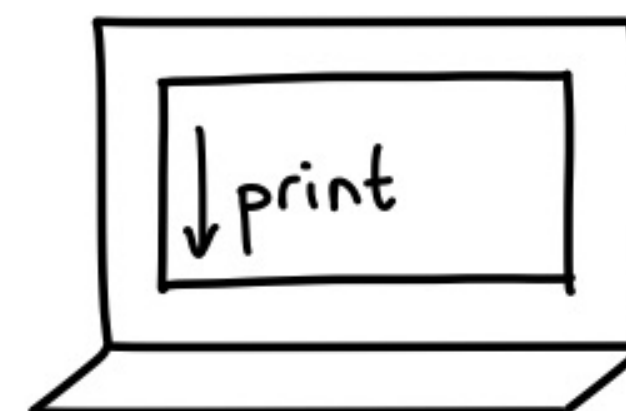
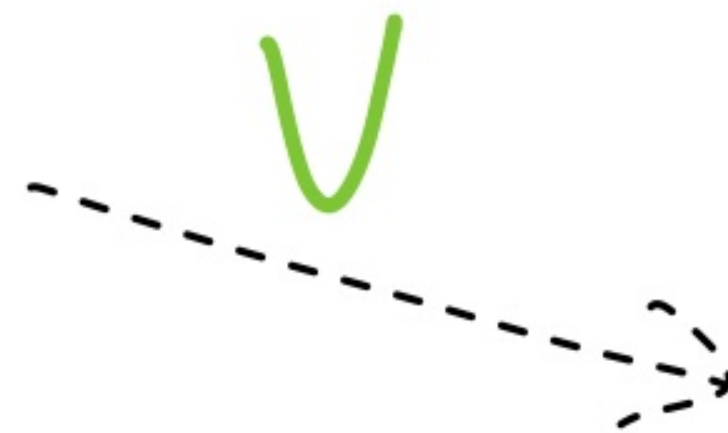
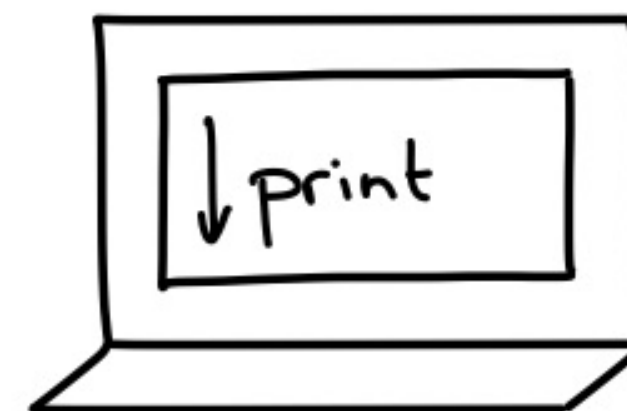
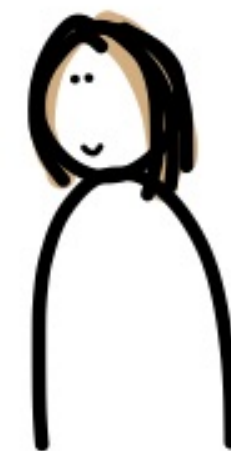
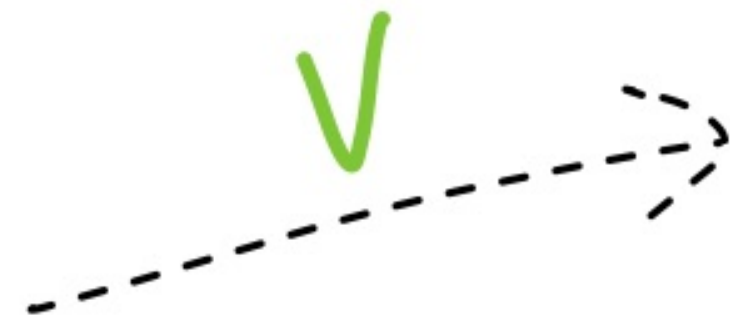
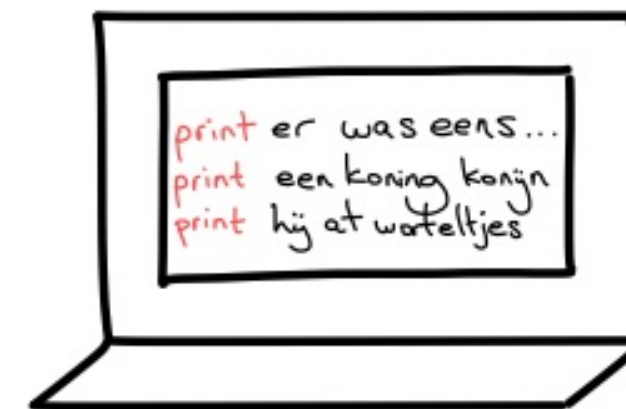
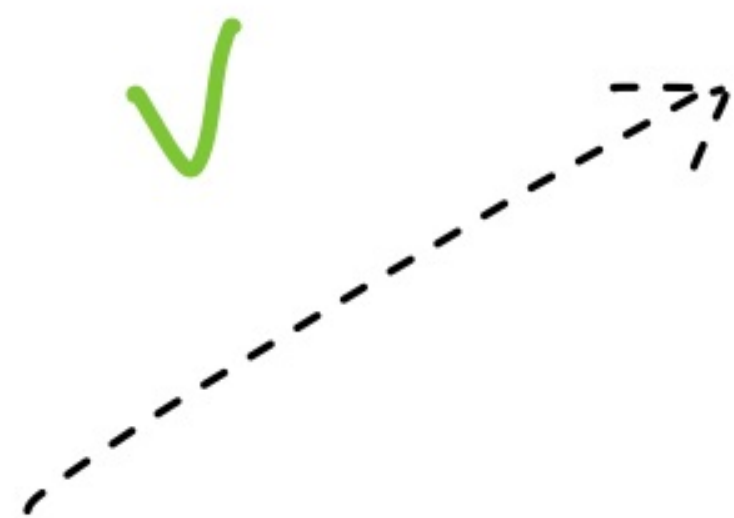
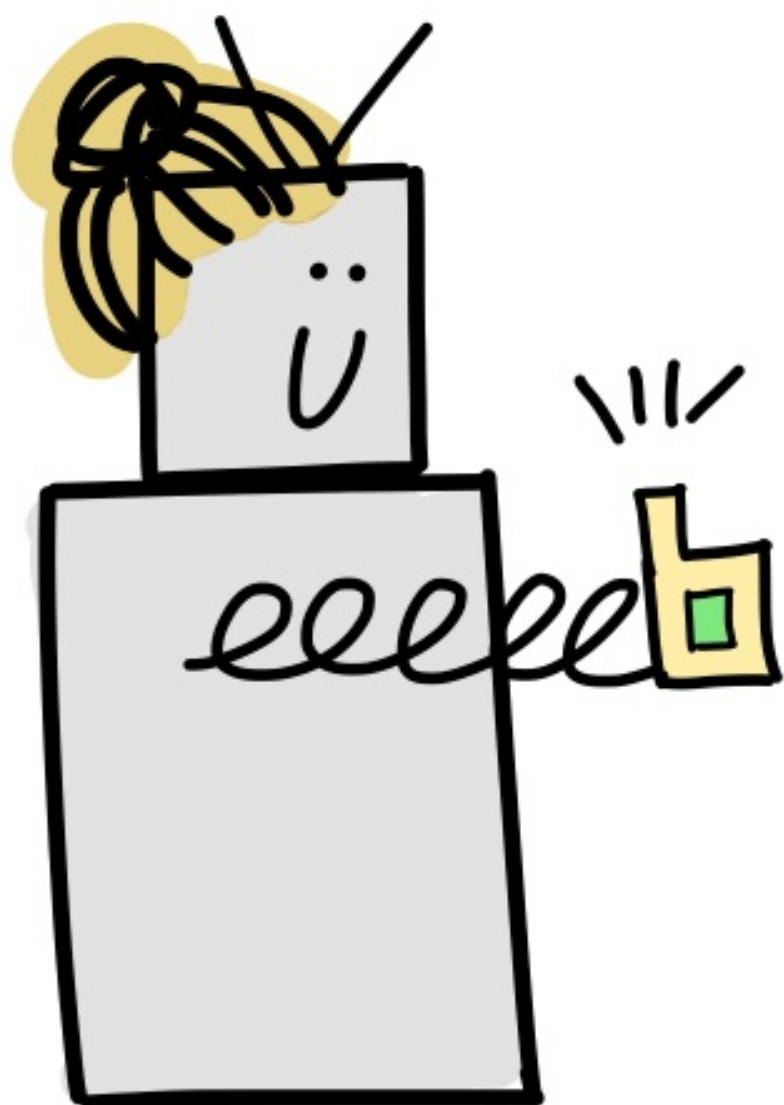








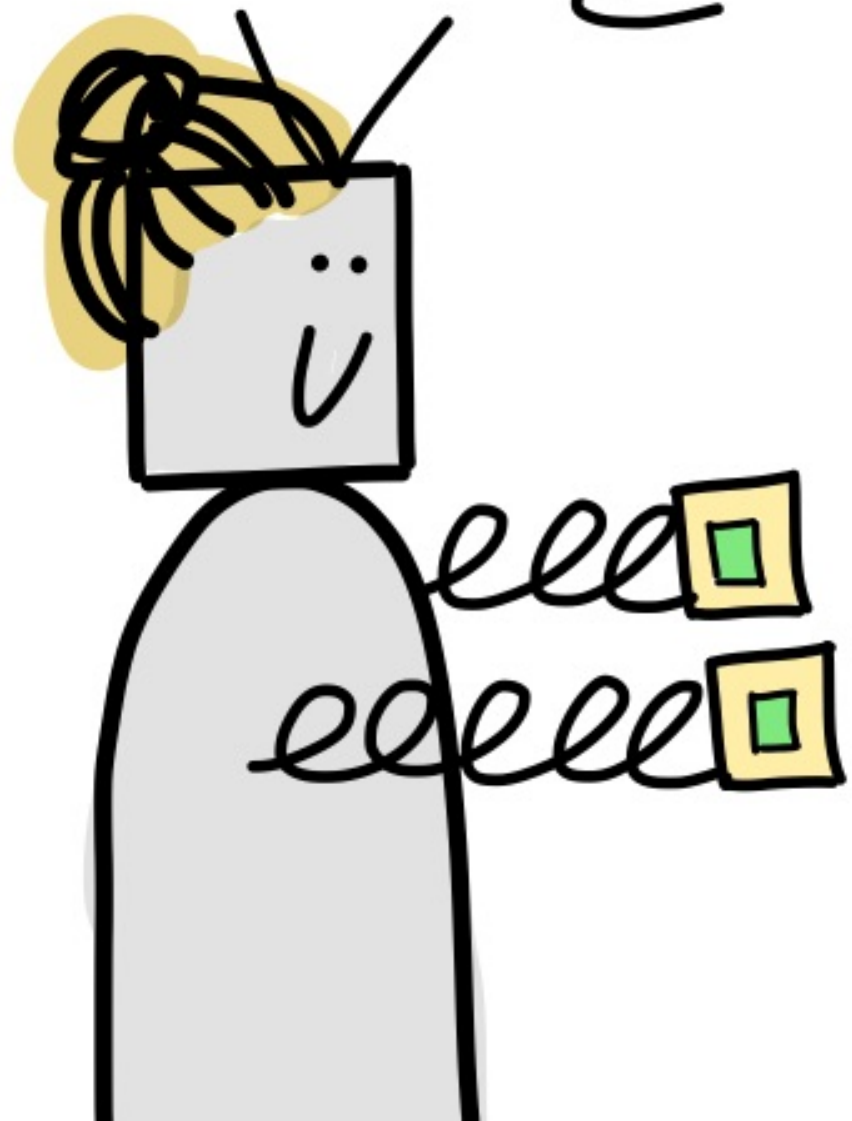




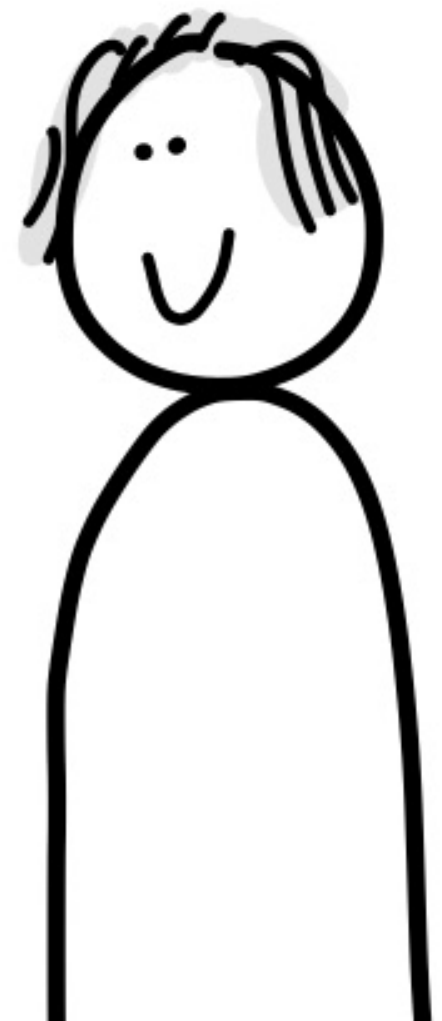
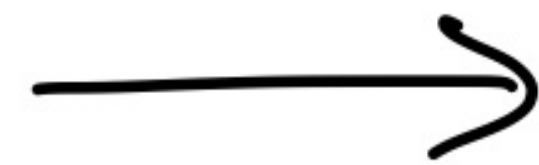


"The simple fact is...

Teachers are out of date"

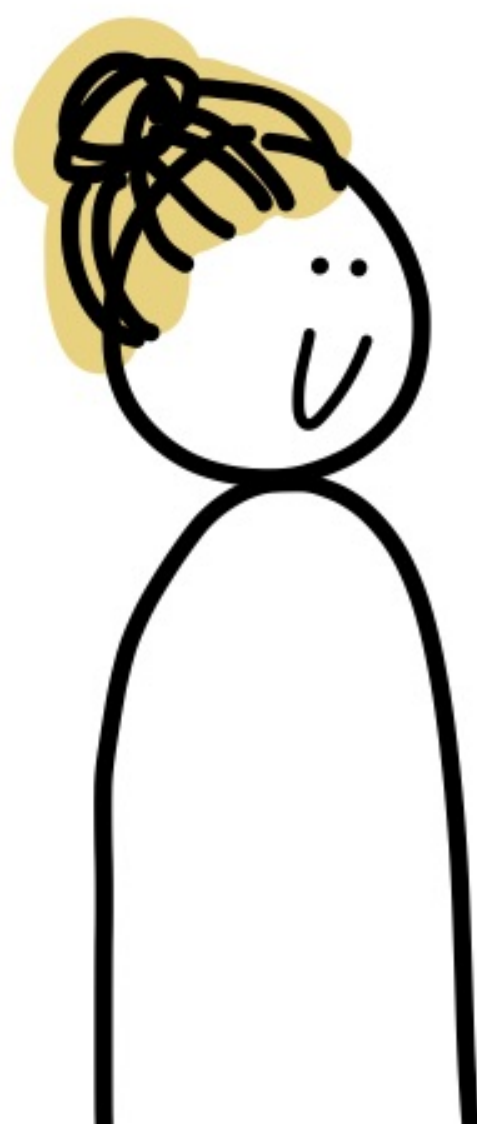


B.F. Skinner  
1954



Felienne Hermans

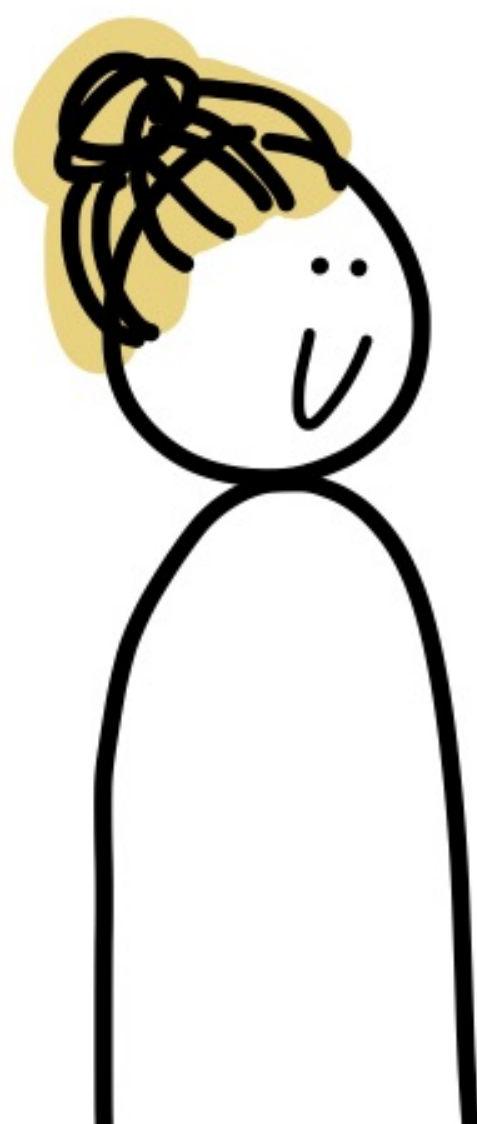
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