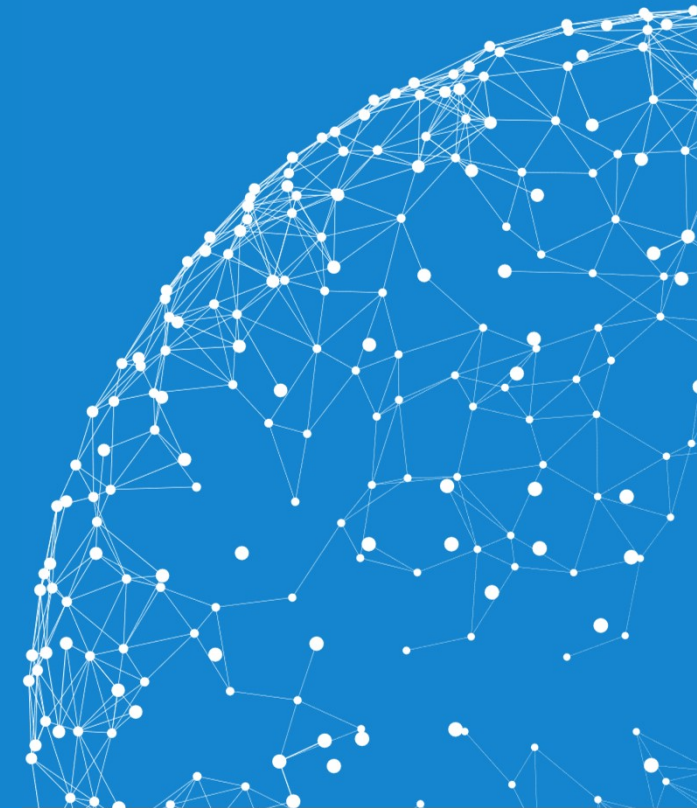


REBO, THE REFLECTION GUIDANCE CHATBOT

Reflection guidance for apprentices on practical learning tasks

DIALOGUE STRUCTURE & ADAPTIVITY



An apprentice reflects on a practical learning experience

Rebo Junior guides them through pre-defined levels of reflection

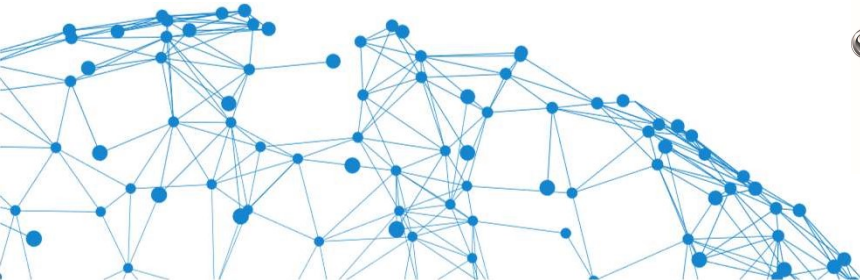
- 0. Revisiting
- 1. Description
- Upload of task

2. Judgement

3. Emotions

4. Learning

5. Planning



Hello Alexis!

Hi

How was this task for you? Did everything go well?

Yes, everything went OK. Only the carving with the angle grinder, there I made a mistake.

Did you have fun with this task? Why/Why not?

Yes, it was fun. From the moment on when I knew the quirks of the machine.

What tip could you give to a younger apprentice who performs a task like that for the first time?

Don't fool around but keep concentrated, and if you have a problem don't ask another apprentice, ask the trainer!

What will you pay special attention to when you perform a similar task again?

I will file by hand right from the beginning and not try it with the angle grinder. I haven't got the hang of it yet.

Thanks for the talk!

You're welcome

Until next time 😊

Dialogue structure proves very successful!

Evaluation in a field study (153 interactions over 3 months)

Apprentices like texting with Rebo!

→ Workshop feedback: 94% like Rebo, 70% see benefit

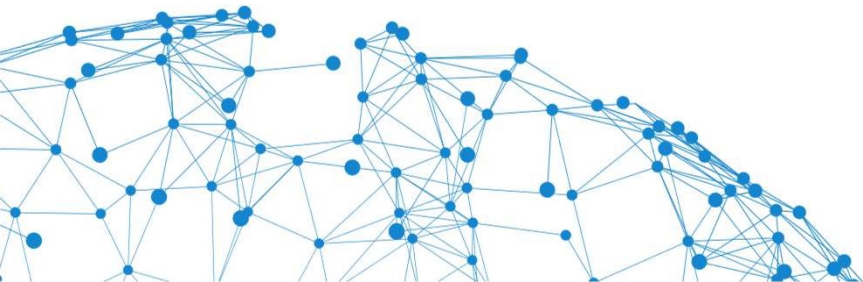
Conversations with Rebo Junior are coherent and reflective

→ 97% coherent interactions

→ 75% reflection stage* 2/3: analysis

→ 87% reflection stage* 3/3: learning & change

* Prilla & Renner (2014)



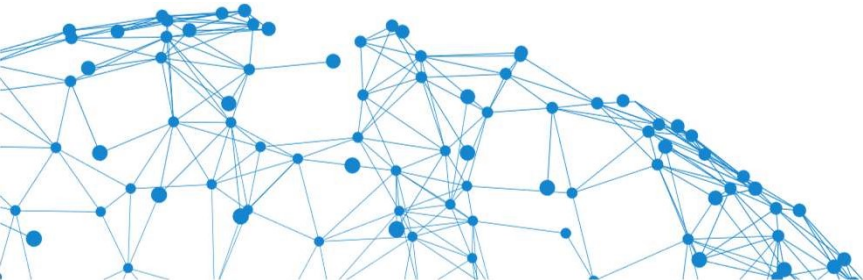
Does talking to Rebo teach apprentices to reflect?

Current field study

- 19 apprentices
- 12 weeks
- ~15 interactions per apprentice

Reflection essay at the beginning and at the end.

→ Have they improved their reflection skills?



How much adaptivity makes sense?

Missing / Fake reflectivity reactions, empathy

Rebo's goal: successful reflection on all reflection levels

→ When should we adapt reactions and follow-up questions to user responses?

1. When reflection on given level was not successful
2. When apprentices “faked” reflection
3. Empathic reactions to positive or negative experiences

