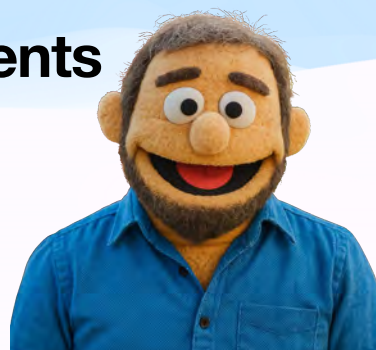


AI and Autistic Students

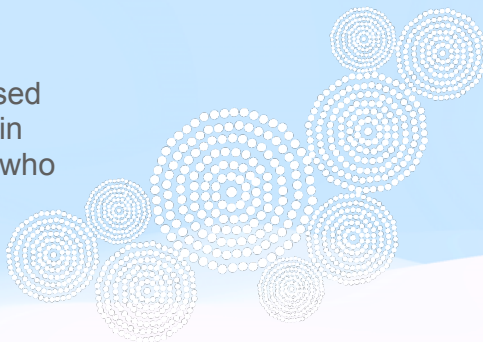
Craig Smith

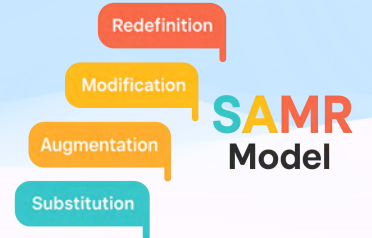
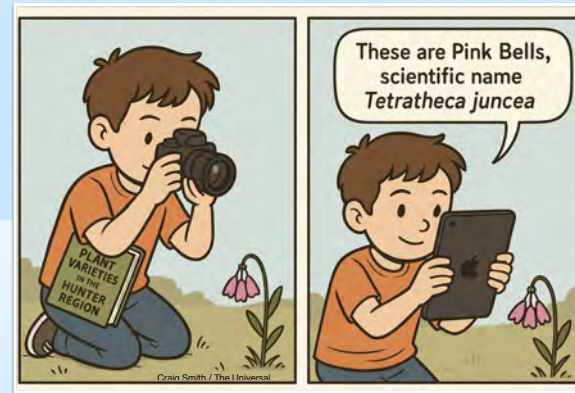


Acknowledgement of Country



First Nations people are advised that this workshop may contain images and voices of people who are no longer with us.





• Brief thoughts about AI and Education



• Four brief demonstrations



The Universal Sandpit



ChatGPT [Voice Mode and CustomGPTs]



Chalk

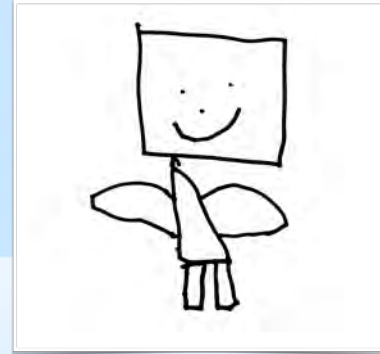


Ayoa

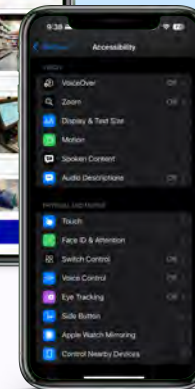
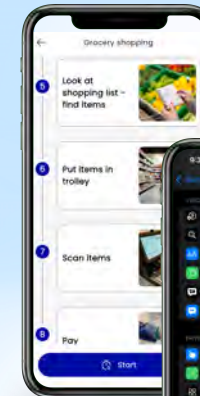
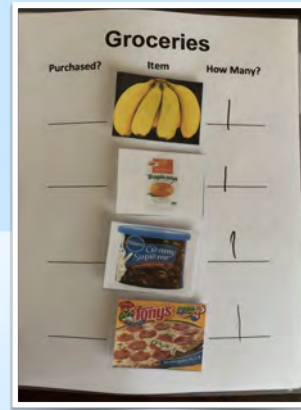
Brief thoughts on **AI and Education***

(*From the perspective of educating autistic students, with associated neurodiversity-affirming considerations, in the context of inclusive education)

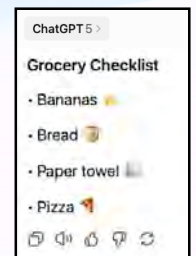




sora.chatgpt.com



Accessibility.



Australian educational needs analysis

Autistic students described the difficulties they faced at school:

1. planning for assignments
2. working as part of a group
3. handwriting, in particular being neat
4. coping with change, e.g. changes in teachers or the timetable
5. coping with bullying or teasing
6. handwriting, in particular being quick enough to keep up
7. copying information from the board
8. doing homework
9. staying calm when other kids annoy me or when the classroom is very noisy
10. talking in front of the class and starting tasks

Saunders, B., Klug, D., Harper-Hill, K., Ashburner, J., Costley, D., Clark, T., Bruck, S., Trembath, D., Webster, A. A., & Carrington, S. (2018). Australian autism educational needs analysis – What are the needs of schools, parents and students on the autism spectrum? Full report and executive summary, version 2. Cooperative Research Centre for Living with Autism, Brisbane.

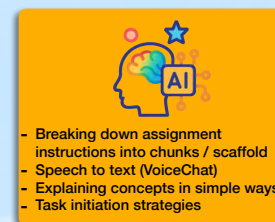


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- Breaking down assignment instructions into chunks / scaffold
- Explaining concepts in simple ways



The Universal Sandpit (www.theuniversalsandpit.org)

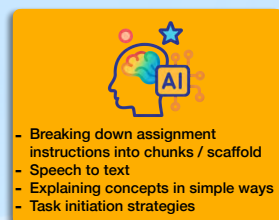


Goblin Tools (<https://goblin.tools/>)

- Speech to text
- Task initiation strategies



ChatGPT [including Voice Mode] (<https://chatgpt.com>)



"I use AI to help motivate me to complete jobs I keep putting off. For example, when I have homework I don't want to do, I say -

'Help me pretend that I'm a spy, and that I only have a certain amount of time to get this work done or it's going to explode. Put me in character and help motivate me!'

Then, it starts the role play and I get into it!"

- Louise



Four brief demonstrations



The Universal Sandpit AI Tools for Inclusive Schools

Student Interests

Visual Teaching

Universal Design

Skill Chaining

Assignments

Spoon Theory

Differentiation

Explain to Me

Social Scripts

Executive Functioning

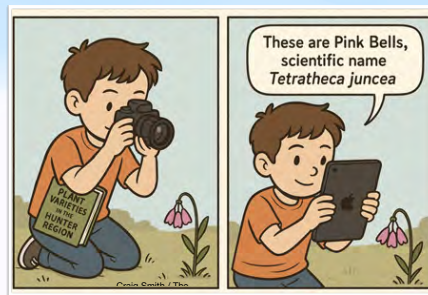
Multi-Tool (for students)

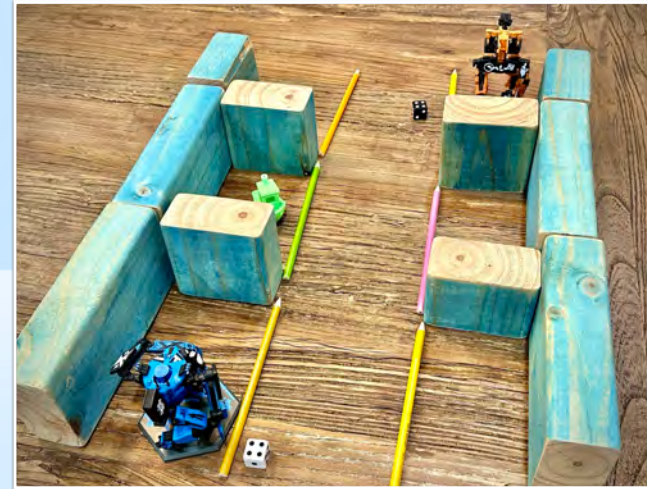
www.theuniversalsandpit.org

Beyond chatbots - AI interactions with the world around us



ChatGPT
Voice Mode





'Robot Blockade: The Tactical Maze'

- Each robot starts at opposite ends of a maze of blocks and pencils, with a goal of reaching the other end.
- The first roll of the die guides how far each robot can move.
- The second roll of the die determines whether the blocks of wood pivot left or right to wall off the approach of the oncoming robot.
- Whoever reaches the boat gets a 'Boat Bonus' which results in an extra dice roll.



Location Preparation

By Craig Warren-Smith

Helps people prepare for new environments visually and descriptively.



Room Tidy Assistant

By Craig Warren-Smith

Helps organise room cleanup via photo analysis



Sensory Planner

By Craig Warren-Smith

Helps design sensory-adaptive environments based on student's needs.



Chalk

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visual**

Transform complex content into accessible diagrams

www.chalklearning.io



ayoa.com

Next steps:

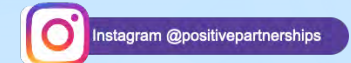
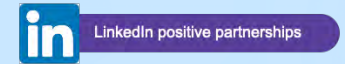
- Have a think about how you use technology in your life to support common daily goals: calendars, notes, timers, reminders. How do you think AI might change how you use these everyday tools in the future?
- Pick a tool from this webinar and think about how it could be used to support an inclusive learning need or an autistic student in your classroom / school.



Resources



positivepartnerships.com.au



Feedback & Questions



tiny.cc/PP-onlinefeedback

