GENERATIVE AI

July 20, 2025

Peter Höfner
Associate Director Education

Australian National University

Generative AI

- Fantastic Tools (ChatGPT, DeepSeek, Co-Pilot …)
- See class summary for detail.

- This is not to torture you, or to forbid you these excellent tool, but has educational background

Verify and Critique

- How do you know it's not correct? You've learnt the basics in school

- If you see a code-snippet (even if it's simple), how do you know it's correct
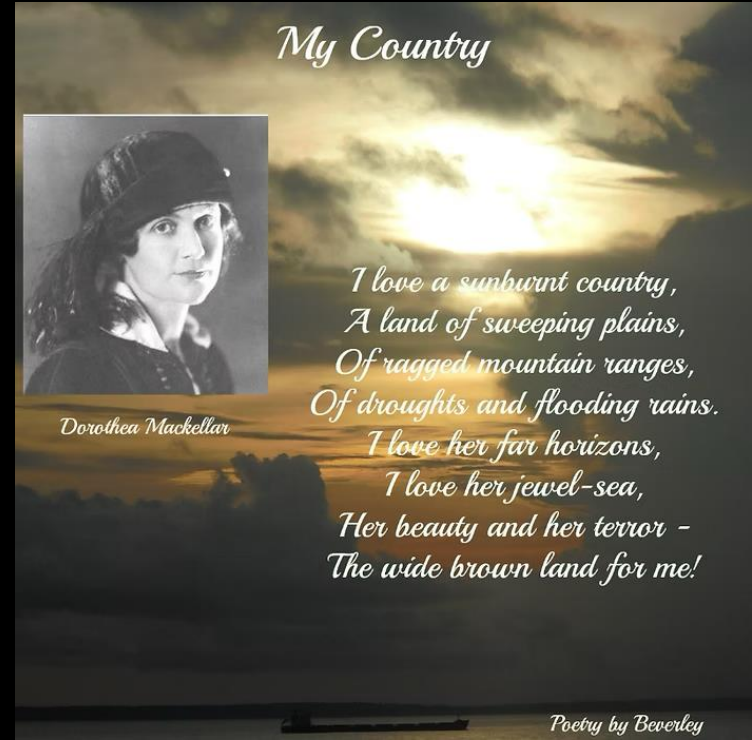

Bing Prompt: alphabet for primary school poster

Reading Vs Writing

- If generative AI generates correct content
  Could you re-generate the solution?

- Reading and understanding is easier than
  Writing a solution

My Country

I love a sunburnt country,
A land of sweeping plains,
Of ragged mountain ranges,
Of droughts and flooding rains.
I love her far horizons,
I love her jewel-sea,
Her beauty and her terror –
The wide brown land for me!

Dorothea Mackellar

Poetry by Beverley

source: beverleychance.wixsite.com

How to Learn a (human) language

source: latimes.com

- **Get daily comprehensible input**

- **Start speaking early** (badly is fine!)
- **Write often**, but keep it short

- **Be consistent**, not perfect

How to Learn a (programming) language

source: latimes.com

- **Get daily comprehensible input** (lectures, books, YouTube, GenAI ..)

- **Start speaking early** (badly is fine!) **Write often**, but keep it short (produce tiny programs, labs, tutorial, homework ...)

- **Be consistent**, not perfect (practice, practice, practice ...)

ANU:
A Unique
Community

- > 50% of staff are born overseas
  students come from over 100 countries
  (https://study.anu.edu.au)

- **Use this opportunity to build your own networks (and make friends for life)**

- **Avoid translation**
  Using AI to translate your work or exercise sheets reduces opportunities for you to

source: biology.anu.edu.au