

AI Tools

17-313

Administrivia

Final Project 4 – Tuesday April 11

No class Thursday April 13 – Carnival

Project 5 is live: <https://cmu-313.github.io/projects/P5/>

Let me know if you are concerned about finding an internship, and would be interested in a class over the summer.

Ramadan/Passover/Easter – let us know if you need any extra support

Learning goals

- Learn about cutting-edge AI tools, strengths and weaknesses
- Learn by doing
- Reflect on our experiences

48 hours ago...

- Sr Duolingo Manger: "AI tools will change the way people code"



duolingo



How should we react?



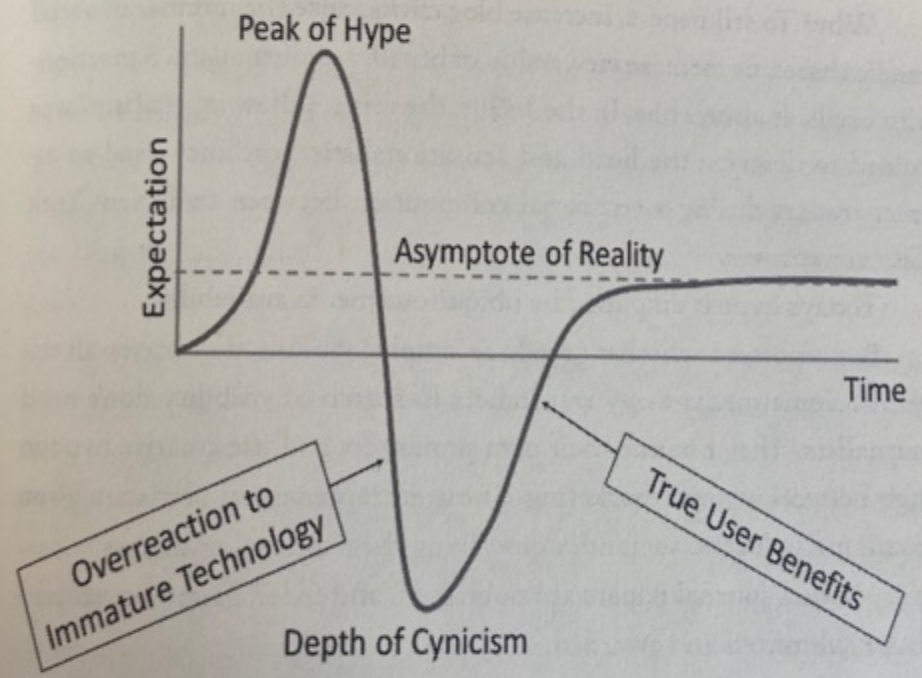
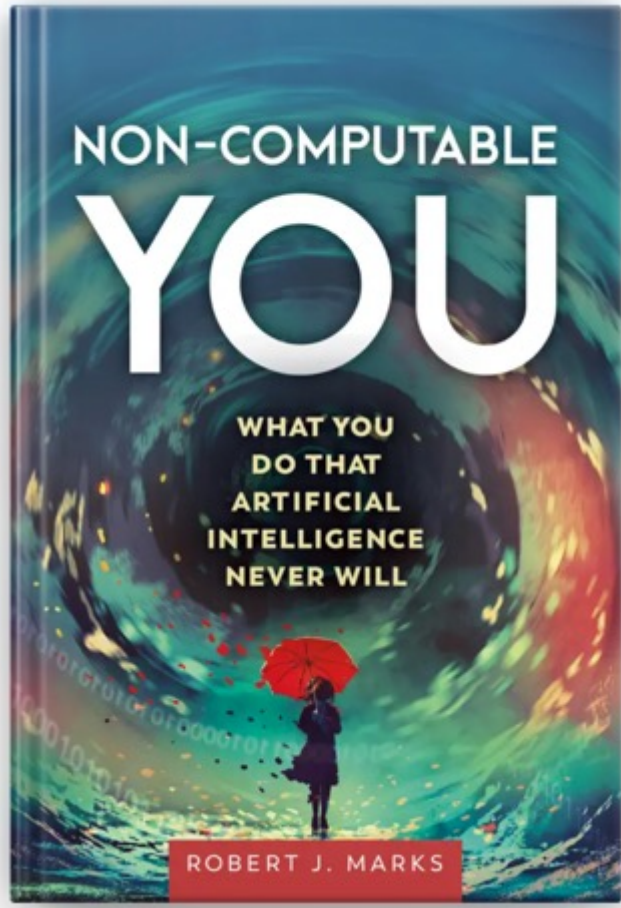


Figure 5.1. The hype curve.

They sell their stock and go looking for a new hype to criticize, believe in, or profit from.

- **The true-user-benefits phase.** The faithful—often those whose initial expectations included the realistic possibility of failed promise—carry on and find ways to turn the new technology to useful practice.

It is still way to early

- Any predictions at this point are pure guesses
- Concerns?
- Excitements?

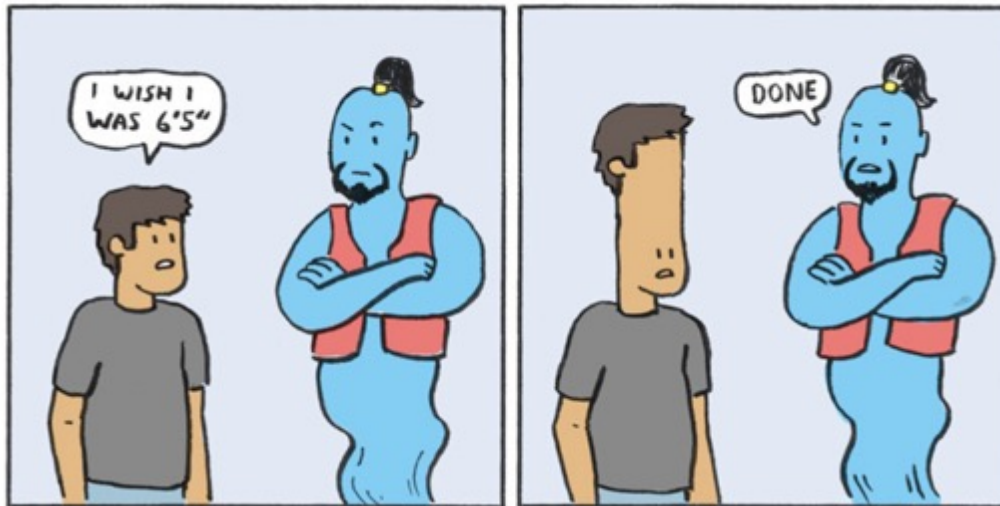
- What do you think?

Today, we will all learn together

- We will do an activity, and then reflect on it.

But first, a few points

- AI tools are VERY new
- AI tools are non-deterministic, so we shouldn't expect them to answer the same for everyone.
- Prompting is a huge challenge



Work individually, or in pairs

- Try to build a React Tic-tac-toe game using AI tools
- After the activity, we will ask you to reflect on:
 - What are the advantages and disadvantages of using generative AI tools like ChatGPT and GitHub Copilot?
 - What kind of task did you find worked well with ChatGPT and GitHub Copilot?
 - What kind of task did you find did not work well with ChatGPT and GitHub Copilot?
 - What is something you did not expect when using ChatGPT and GitHub Copilot?
- You may work alone or in a pair
- Fork the repo, open a WIP Pull request. Commit to the PR once you finish each step of the To-Do list.
- We recommend ChatGPT and Copilot, but you are free to do any other AI tool as well
- <https://github.com/CMU-313/llm-lecture>

Reflection questions

- What are the advantages and disadvantages of using generative AI tools like ChatGPT and GitHub Copilot?
- What kind of task did you find worked well with ChatGPT and GitHub Copilot?
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- What is something you did not expect when using ChatGPT and GitHub Copilot?