Pair Programming with the Computer

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Can we get the computer to write code for us?

Yes. We do that all the time.

e.g:

- Compilers
  - write low-level code from high-level specification.
- Machine Learning
  - Learn model parameters from training data.

But..

- The "generated code" is hard to understand.
- It is not meant for human consumption.

Is it possible for the computer to...

- Write understandable code?
- Collaborate with us during development?

Not yet

- We still have a long way to go.
- But possible in specific narrow cases.

Demo

Thank You!

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