

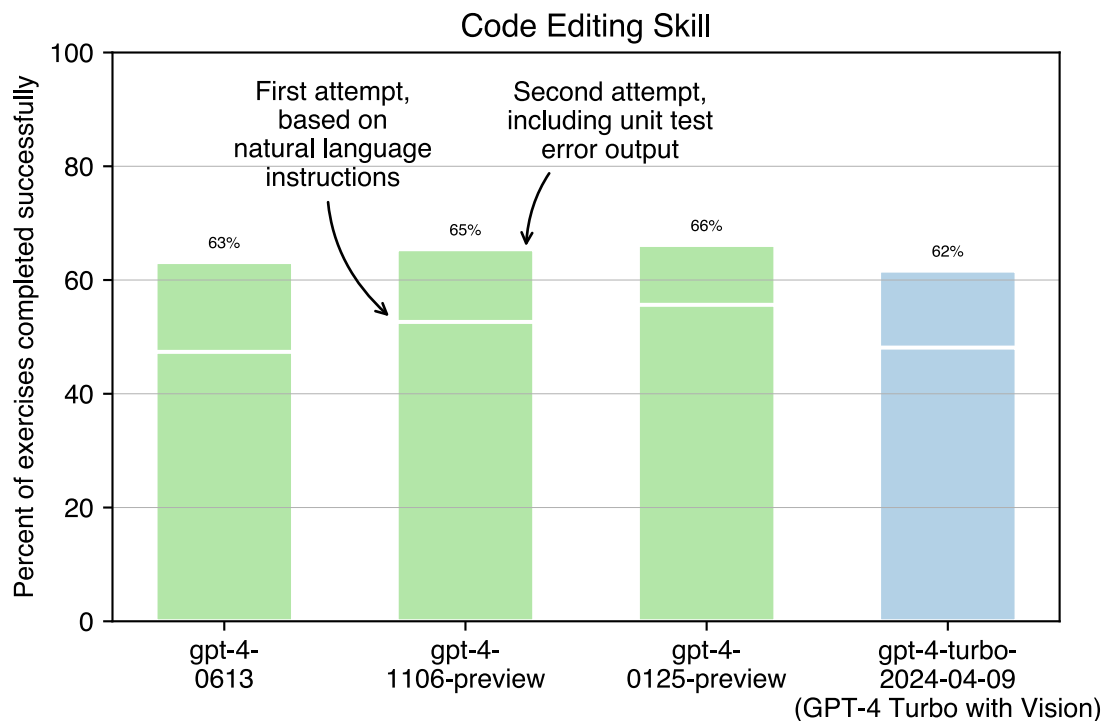
## aider

April 09, 2024

# GPT-4 Turbo with Vision is a step backwards for coding

OpenAI just released [GPT-4 Turbo with Vision](#) and it performs worse on aider's coding benchmark suites than all the previous GPT-4 models. In particular, it seems much more prone to "lazy coding" than the existing GPT-4 Turbo "preview" models.

## Code editing skill



Aider relies on a [code editing benchmark](#) to quantitatively evaluate how well an LLM can make changes to existing code. The benchmark uses aider to try and complete [133 Exercism Python coding exercises](#).

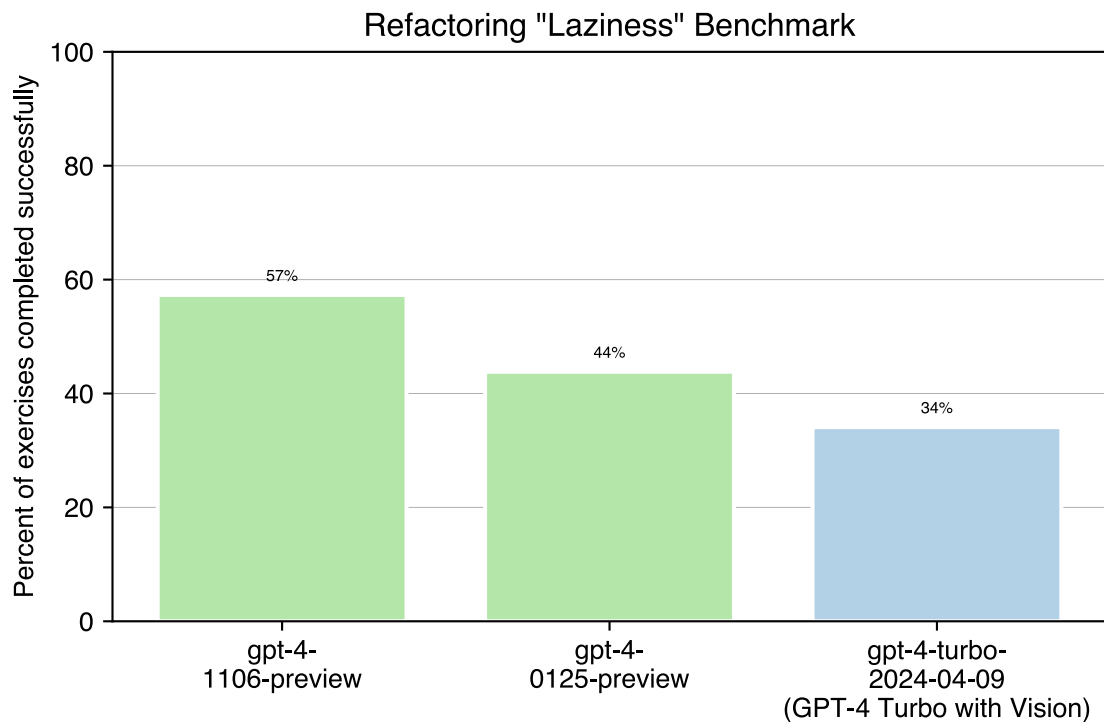
For each exercise, the LLM gets two tries to solve each problem:

- 1 On the first try, it gets initial stub code and the English description of the coding task. If the tests all pass, we are done.

- 2 If any tests failed, aider sends the LLM the failing test output and gives it a second try to complete the task.

**GPT-4 Turbo with Vision scores only 62% on this benchmark, the lowest score of any of the existing GPT-4 models.** The other models scored 63-66%, so this represents only a small regression, and is likely statistically insignificant when compared against `gpt-4-0613`.

## Lazy coding



The GPT-4 Turbo “preview” models have been widely criticized for being “lazy” when coding. They often omit needed code and instead leave comments with homework assignments like “implement method here”.

```
def some_complex_method(foo, bar):  
    # ... implement method here ...
```

Aider uses a [“laziness” benchmark suite](#) which is designed to both provoke and quantify lazy coding. It consists of 89 python refactoring tasks which tend to make GPT-4 Turbo code in that lazy manner.

**The new GPT-4 Turbo with Vision model scores only 34% on aider’s refactoring benchmark, making it the laziest coder of all the GPT-4 Turbo models by a significant margin.**

# Conclusions

Aider has full support for the new GPT-4 Turbo with Vision model, which you can access using the switch `--model gpt-4-turbo-2024-04-09`. But aider will continue to use `gpt-4-1106-preview` by default, as it is by far the strongest coder of the GPT-4 models.