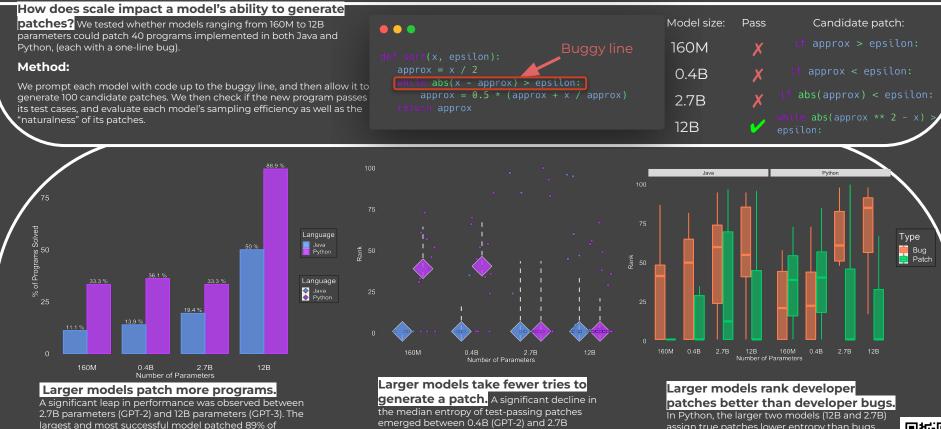


Python programs, and all models patched 2-3 times

more programs in Python than Java.

## Patch Generation with Language Models : Feasibility and Scaling Behavior



emerged between 0.4B (GPT-2) and 2.7B (GPT-2) in Python, demonstrating that sampling efficiency increases with model size.

true bugs lower entropy (on average).

assign true patches lower entropy than bugs.

whereas the smaller two (0.4B and 160M) assign