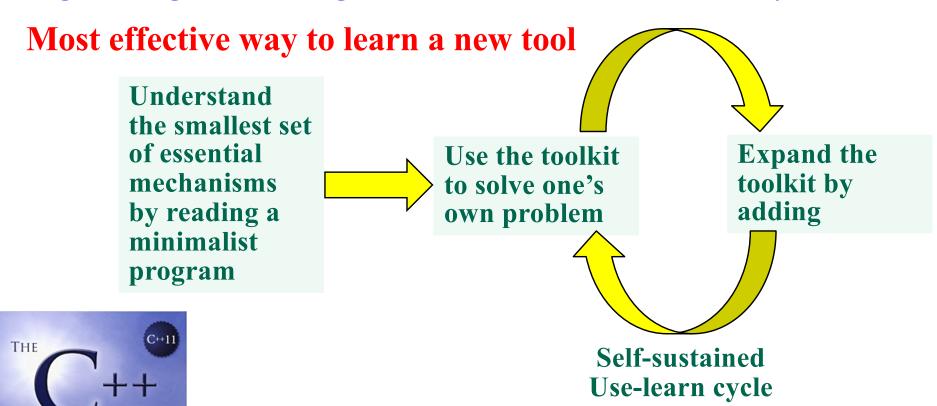
Why Assignments Are Too Easy?

A: It's intentional. To provide hands-on seeds, so as to start using tools (MPI, OpenMP, CUDA, DPC++, etc., or other mathematical & engineering tools at large) in a self-sustained use-learn cycle





Alternative way

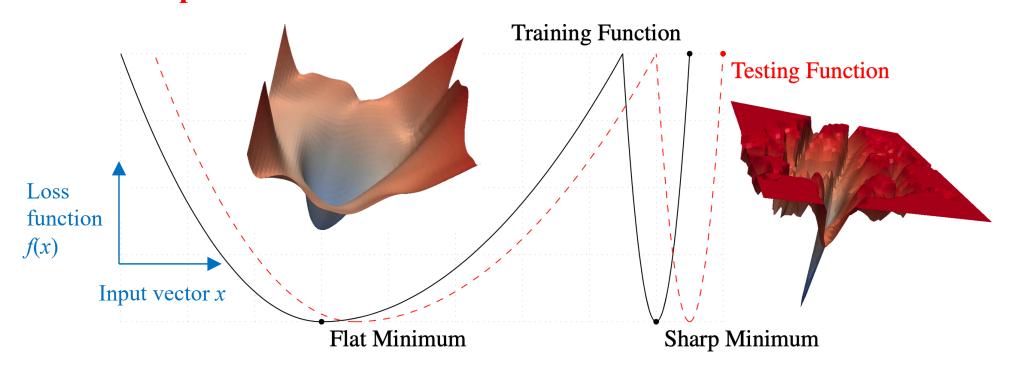
PROGRAMMING LANGUAGE

FOURTH EDITION

"You bought a 1300+ page (480K+ word) book for \$40 or \$60, not a subscription service. How much support do you expect?"

Learning-Theory Foundation

- Minimum description length (MDL) theory: Models described by fewer bits (i.e., low Kolmogorov complexity) are more generalizable
- Spectral theory: Low-bit (low-complexity) models have flatter loss landscape



Keskar *et al.*, ICLR 2017 [https://arxiv.org/abs/1609.04836] Forest et al., ICLR 2021 [https://arxiv.org/abs/2010.01412]