in·tu·i·tion

/ˌinto͞oˈiSH(ə)n,ˌintəˈwiSH(ə)n/

*noun*

1. the ability to understand something immediately, without the need for conscious [reasoning](https://www.google.com/search?client=safari&sca_esv=577635516&rls=en&sxsrf=AM9HkKnNkoAdYjLI-cmv0JgWahROXJF6Tw:1698599378475&q=reasoning&si=ALGXSlb6hSjuI-stkeAspHuNXR7xS_c_OsP02Gs9R9lPbOpBPhFNcWG9ifNPFo-rNaGCkFZ4vyXMP1uvz4bbXhfOk4el90EFuOR6SvS6V3NoSgY9HzOxghM%3D&expnd=1).

"we shall allow our intuition to guide us"

a thing that one knows or considers likely from [instinctive](https://www.google.com/search?client=safari&sca_esv=577635516&rls=en&sxsrf=AM9HkKnNkoAdYjLI-cmv0JgWahROXJF6Tw:1698599378475&q=instinctive&si=ALGXSlY7Tk5u3AnUd39hr4eAN0grGIB1Gms3RM3ncaRAWGlzZF1NI66ySQkVS4O4J7DK-L5vggFda28UHV53LA_1o04nxZrU5RqOKdHeAsUMQQyNkPEMsDA%3D&expnd=1) feeling rather than conscious reasoning.

plural noun: **intuitions**

"your insights and intuitions as a native speaker are positively sought"

* Introduction
  + Why tooling matters.
    - Errors, bad vs good.
    - Clean compile but code with errors.
  + Cross Platform windows/mac/linux
* Compiler settings to get the most from your compiler speaking to you.
  + clang / gcc
    - Are you using -Wall -Wwarn -Werrors -Wextra -std=c++11 -pedantic-errors
  + CLI builds vs GUI
    - How and where to set.
* Compare a few older errors to newer ones for history
  + Based on Compiler/Standard 11/14/17/20/23
    - Gcc/Clang
    - Windows MSVC
* Review compiler errors and warnings
  + why they matter, how to fix.
* Review linker errors
  + how they can trick you in your code
  + intuition to tell the difference
  + how to fix.
* Review static analysis
  + Clang Tidy for Linux/Mac/Windows
    - common complaints and how to fix them
    - using the config to reduce noise.
    - how to tell which ones to follow.
  + Microsoft Code Analysis
  + Sonar Source (other free commercial linters)
  + Compare to other linters
  + AI Tooling
* Summary

why, how, what

* why should I care
* how will this improve my life
* what must I do