Execution is a Requirement

Taylor L. Riché

National Instruments



Reason no. 1 High Fidelity – No transformations needed

Reason no. 2

Quick Turnaround – Immediate measurements

Reason no. 3 Automation – Test and measure multiple times



LabVIEW is a graphical programming language

AND

LabVIEW is a modeling language



LabVIEW is a graphical programming language

AND

LabVIEW is a dataflow modeling language





Computer Scientists and Software Engineers



Computer Scientists and Software Engineers



Electrical Engineers

Civil Engineers

Biomedical Engineers

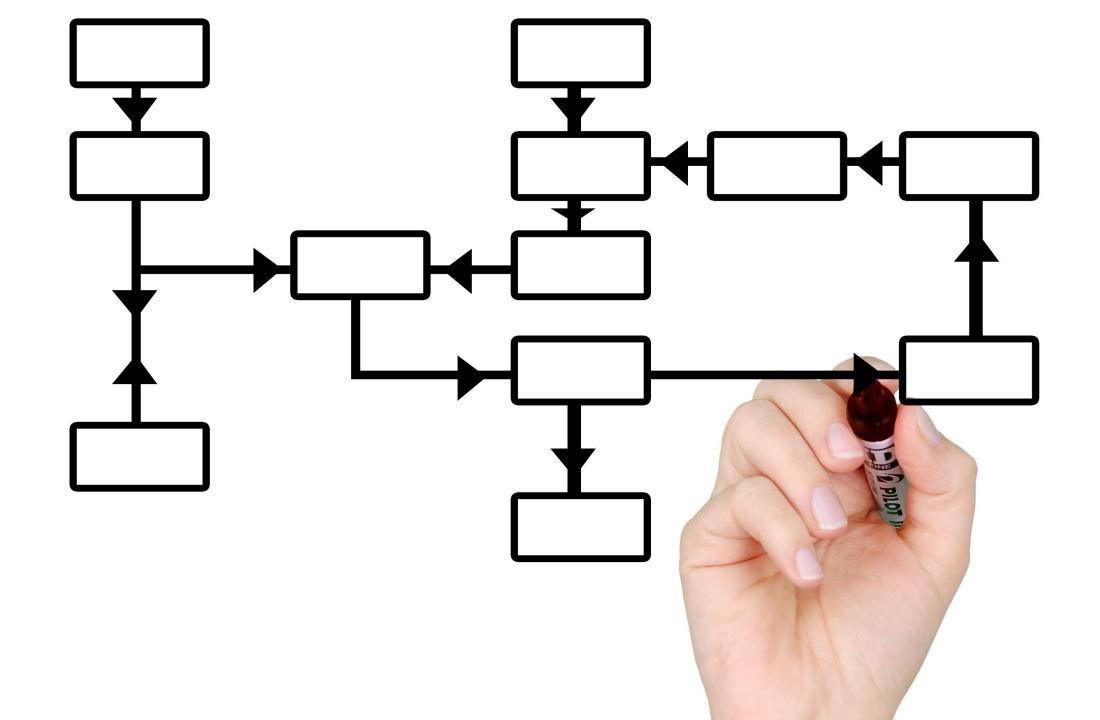
Neuroscientists

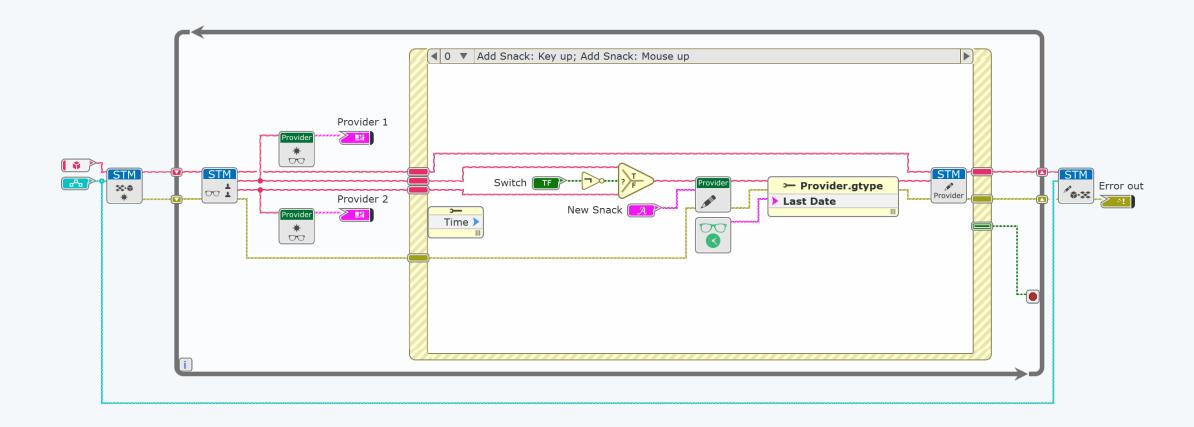
Test Technicians

Medical Professionals





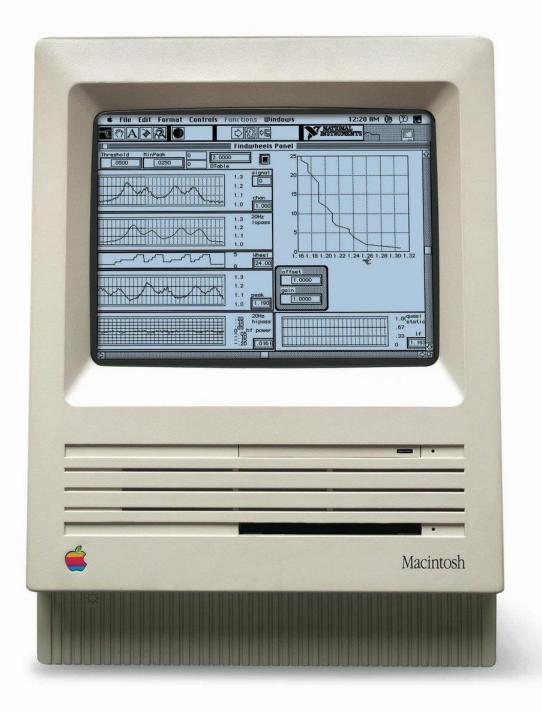




Why are executable models a requirement?



LabVIEW 1 on an early Macintosh in 1986

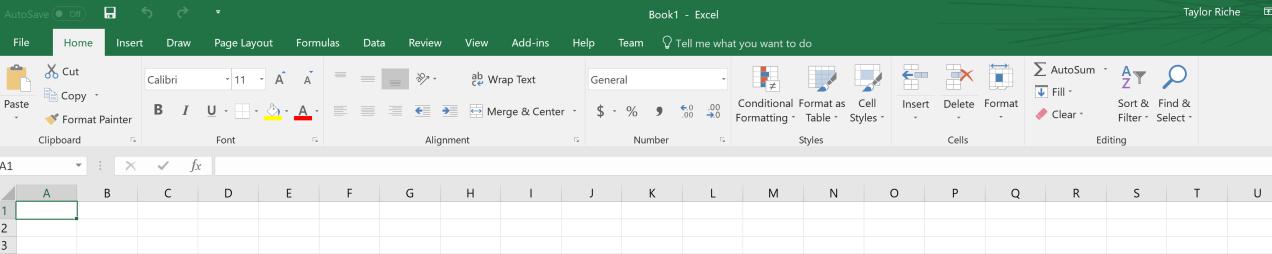


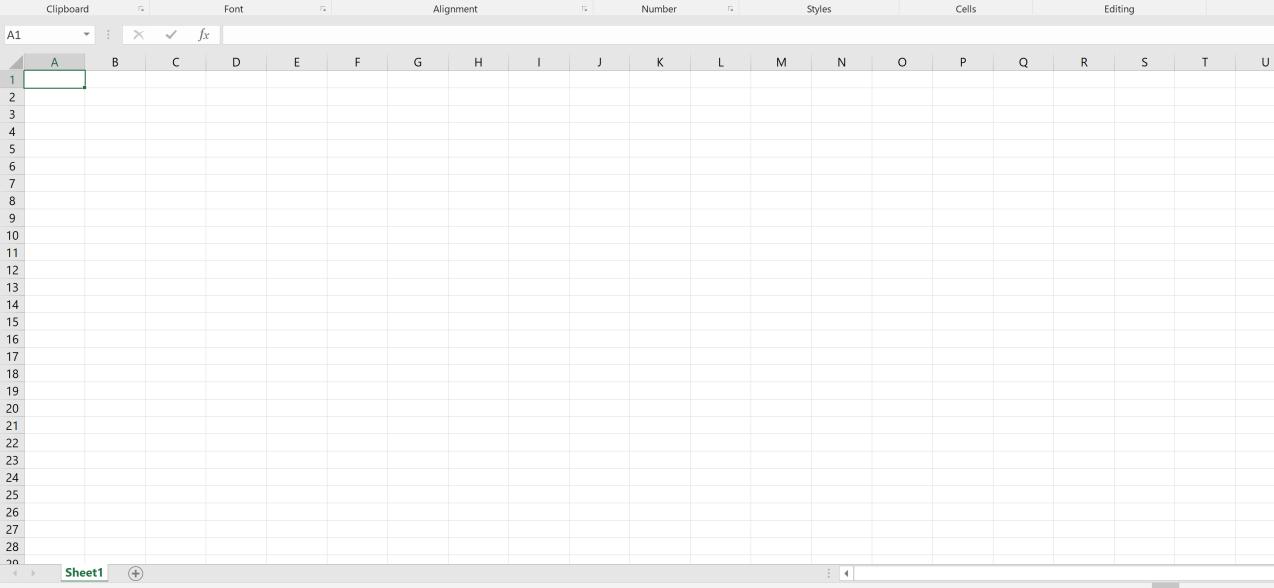


Do for engineers and scientists what the spreadsheet did for financial analysts



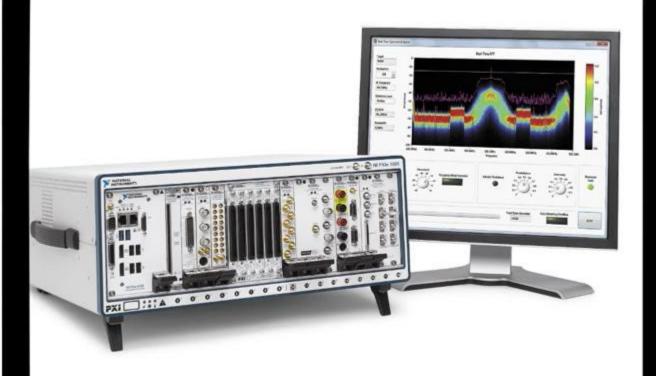






Format Painter





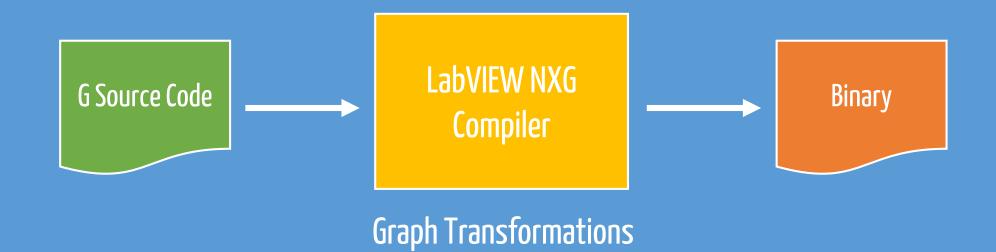
Reason no. 1

High Fidelity – No transformations needed







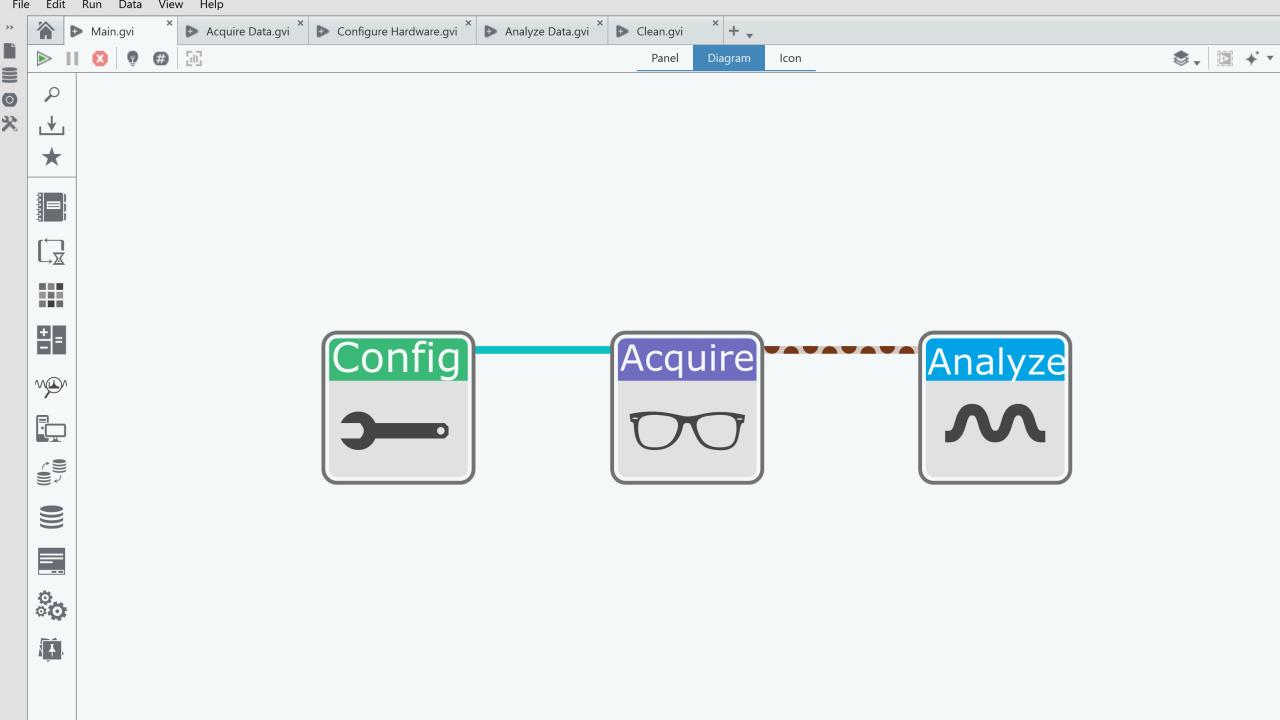




Reason no. 2

Quick Turnaround – Immediate measurements

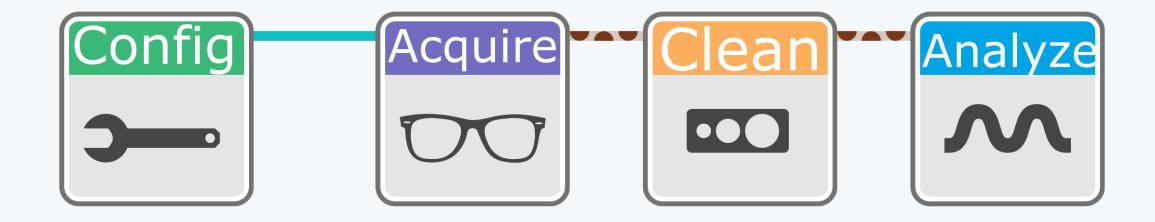


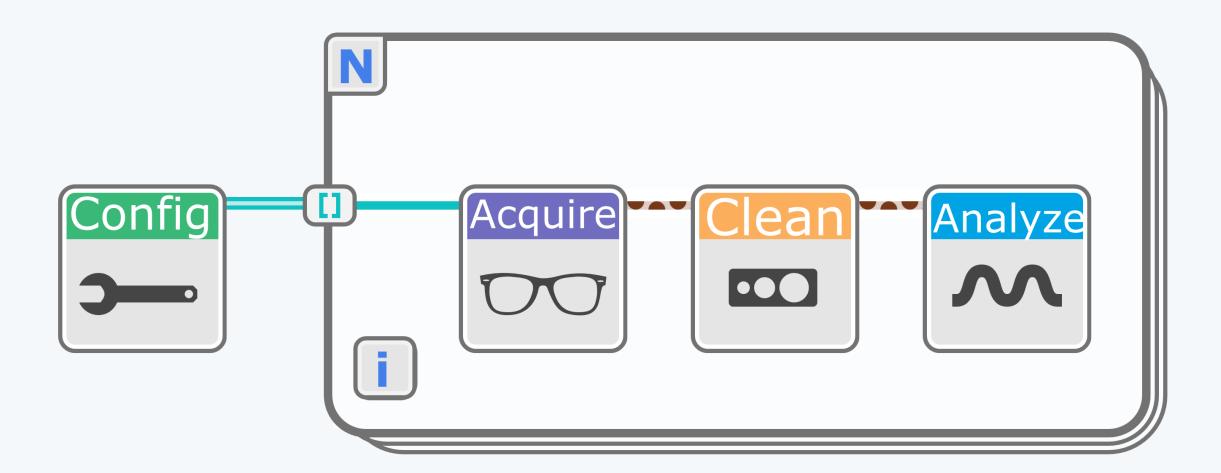


Reason no. 3

Automation – Test and measure multiple times







Without execution, you're just drawing

