# ABSTRACTION ISN'T THE ENTIRE STORY CS 045

Computer Organization and Architecture

# Prof. Donald J. Patterson

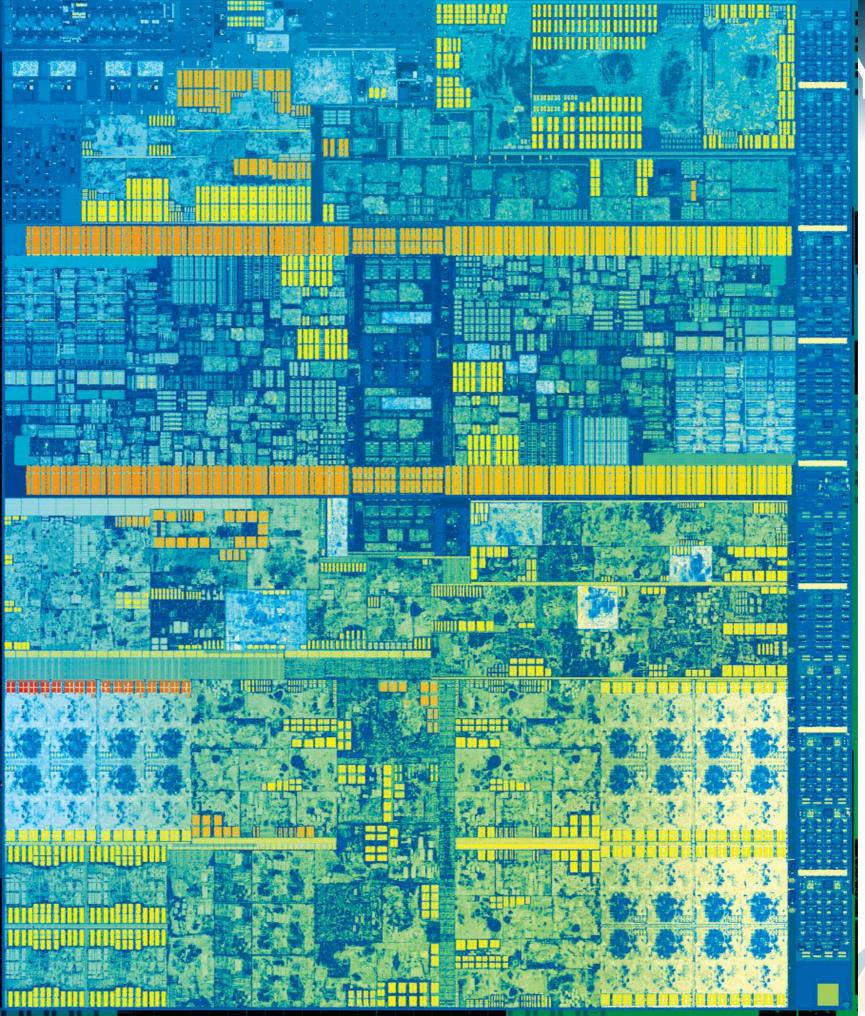
Adapted from Bryant and O'Hallaron, Computer Systems:

A Programmer's Perspective, Third Edition

# HARDWARE ORGANIZATION OF A SYSTEM



HARDW

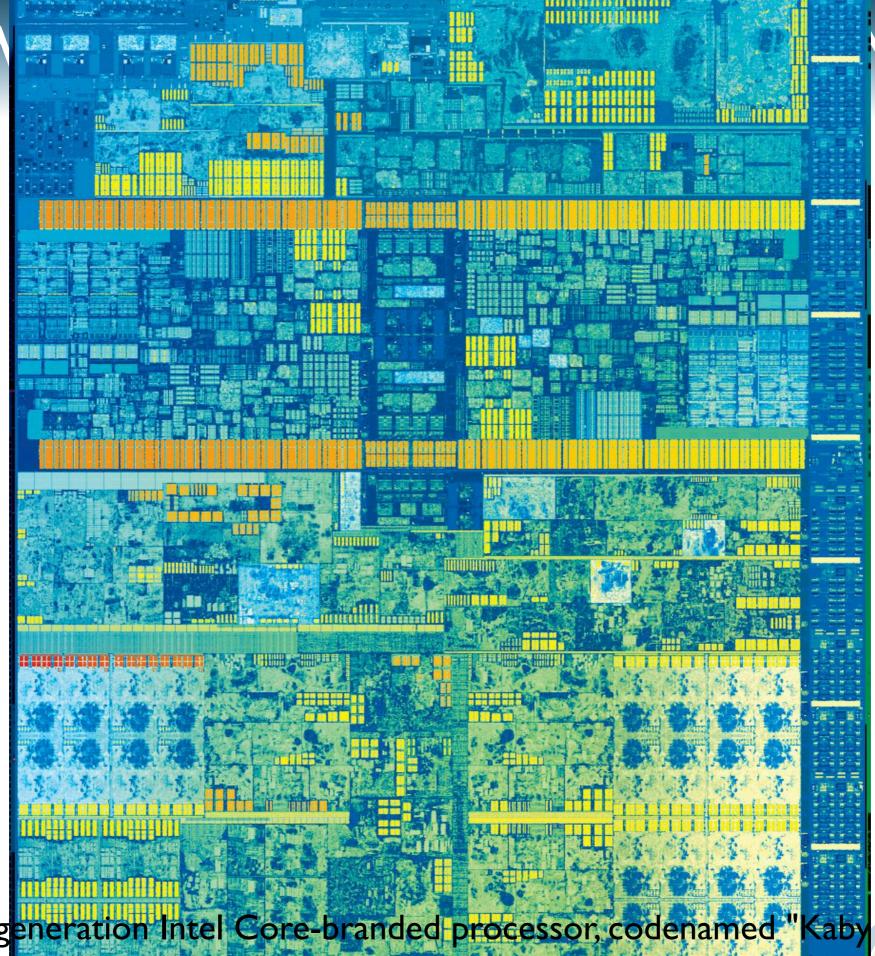


# YSTEM



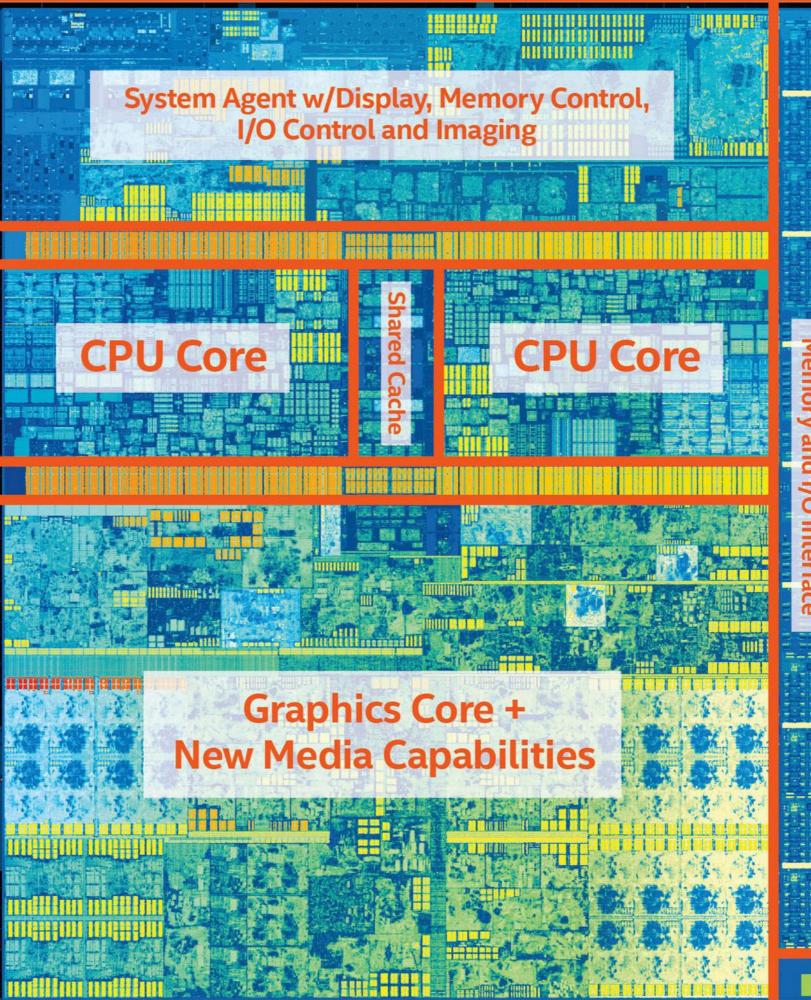
HARDW

YSTEM



seventh-generation Intel Core-branded processor, codenamed "Kaby Lake." http://mashable.com/2016/08/30/intel-core-seventh-gen-processors-4k/#Y4WnvxvjsOqt

HARDV

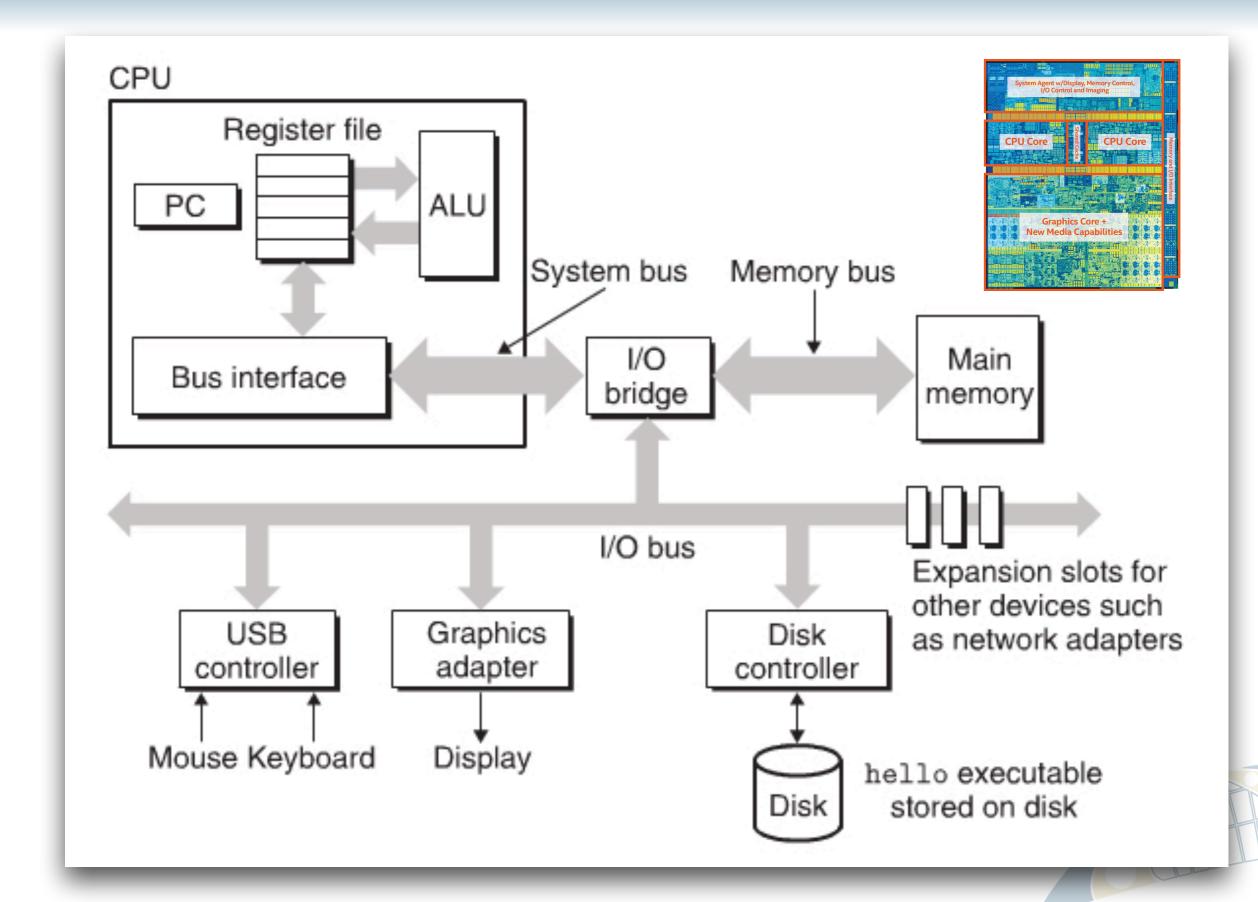


YSTEM

Memory and I/O Interface



## HARDWARE ORGANIZATION OF A SYSTEM



#### HARDWARE ORGANIZATION OF A SYSTEM

CPU

Register file \_\_\_\_\_\_



