

CAL

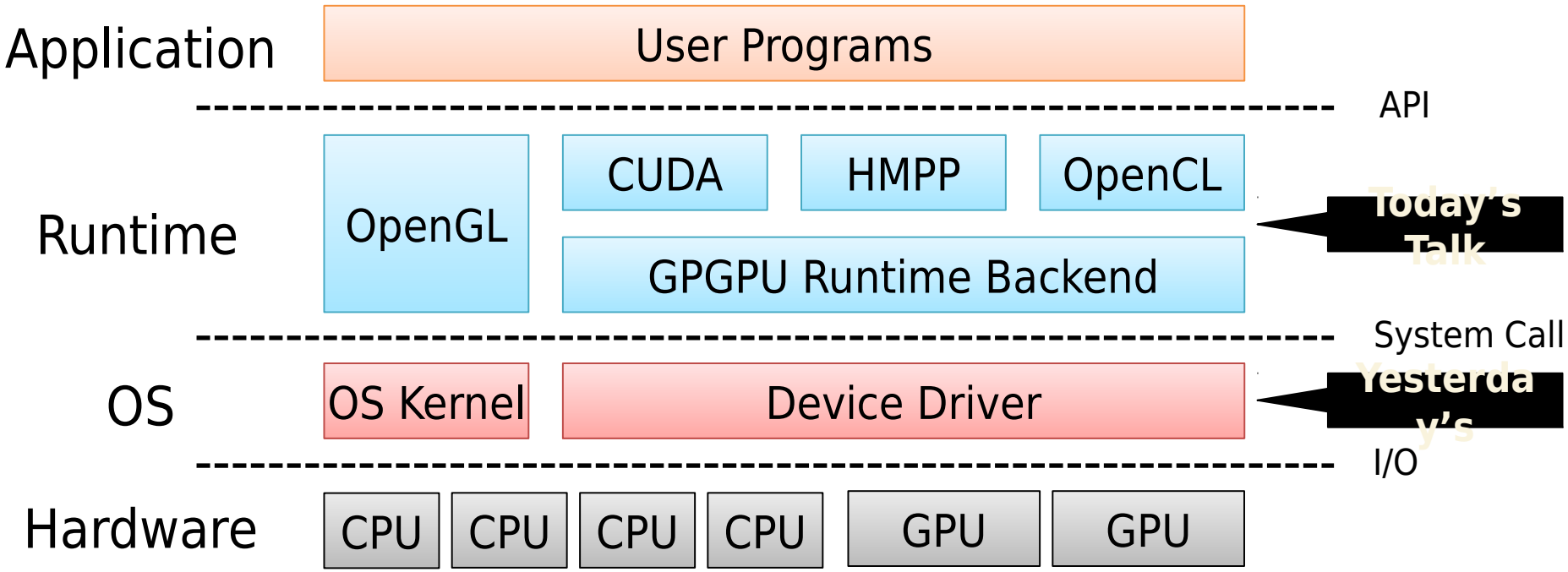
A Compute Abstraction Layer

Shinpei Kato

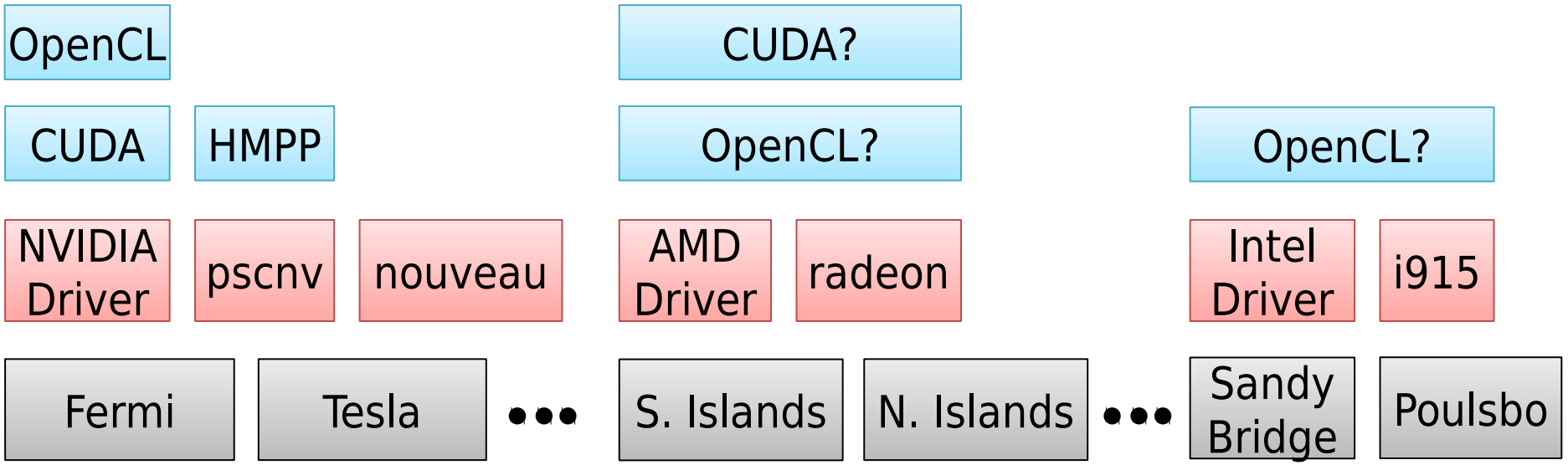
University of California, Santa Cruz



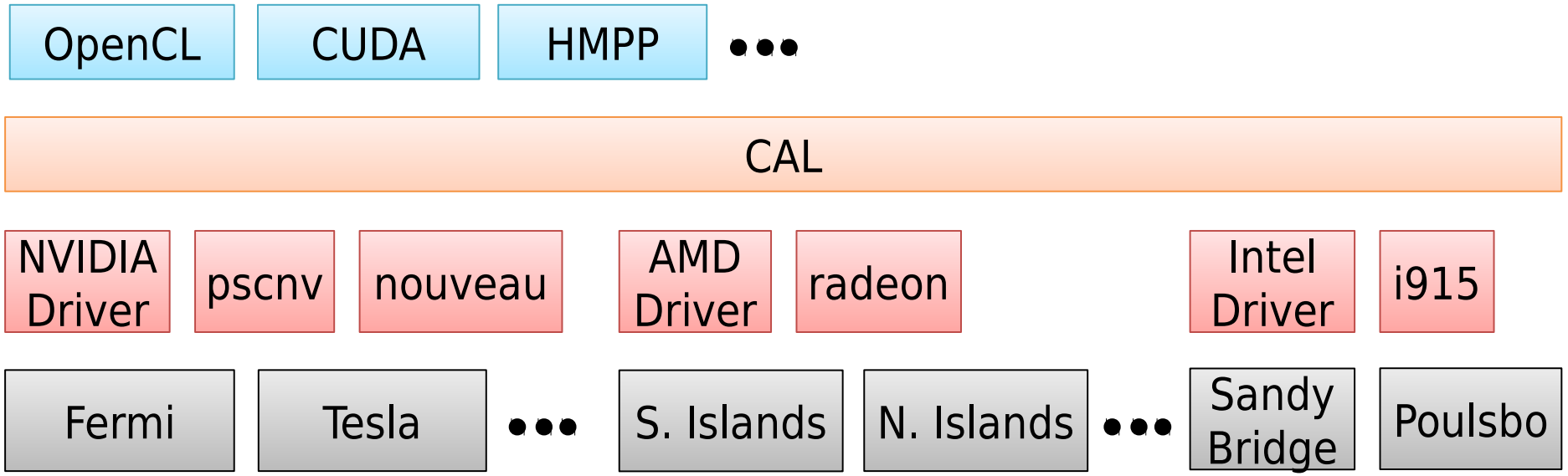
GPU Software Stack



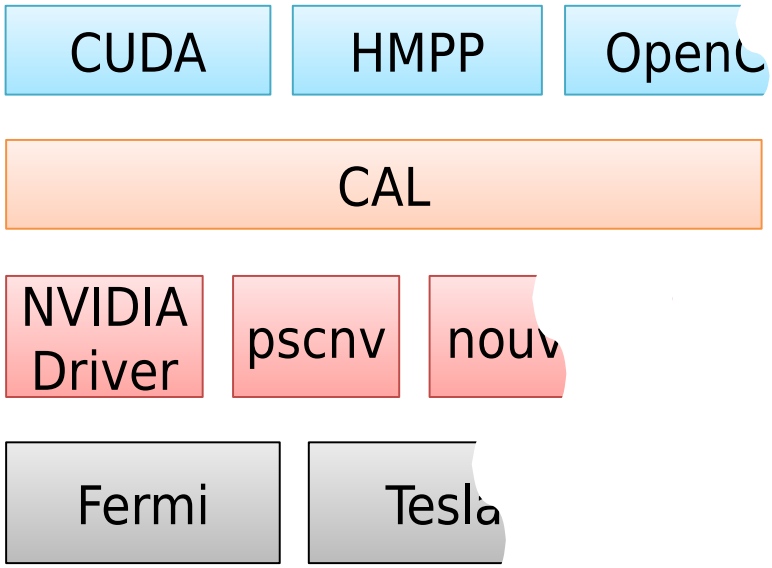
A Closer Look at GPGPU



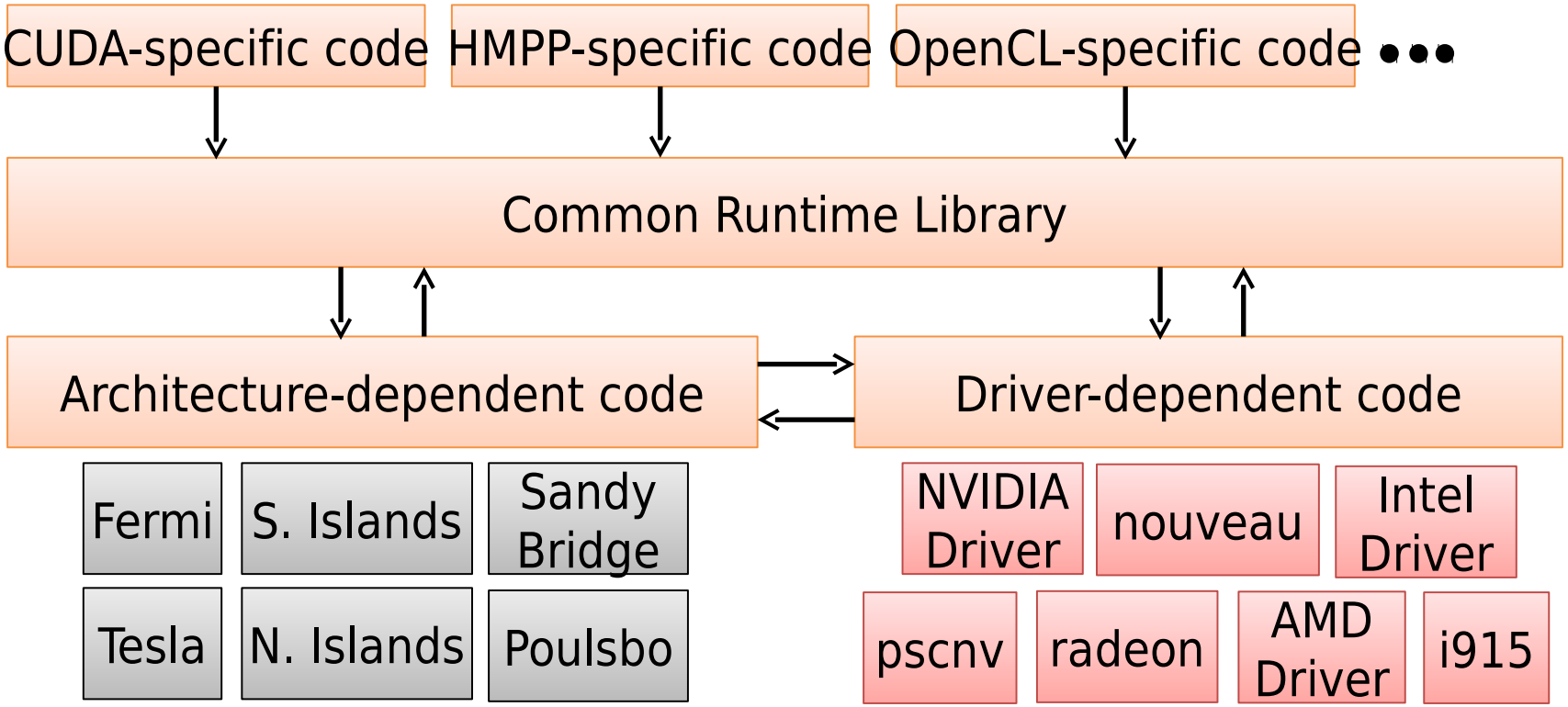
A Compute Abstraction Layer (CAL)



Our Current Status...

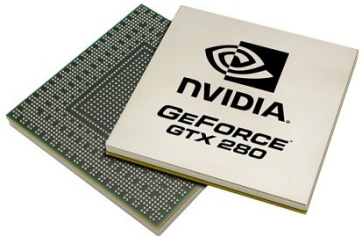


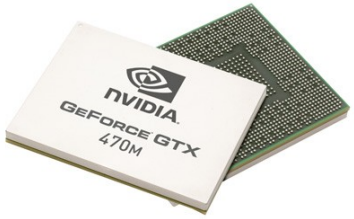
A Design Concept



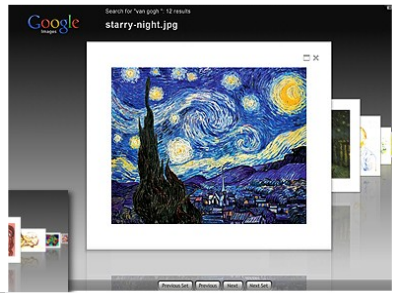
Demo

- Matrix Multiplication
  - Language
    - CUDA
  - Architecture
    - NVIDIA GeForce 560 GT (Fermi NVC1)
  - Driver
    - NVIDIA Proprietary Driver



NVIDIA
GeForce
GTX 280

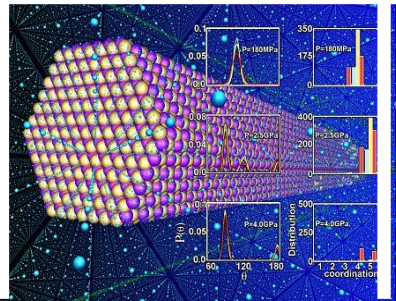
EVGA
GeForce
9500 GT

NVIDIA
GeForce GTX
470M


Thank You!



Google
starry-night.jpg





Mystique has the Ball!

P=180MPa
P=2.5GPa
P=4.0GPa
Distribution
coordination
