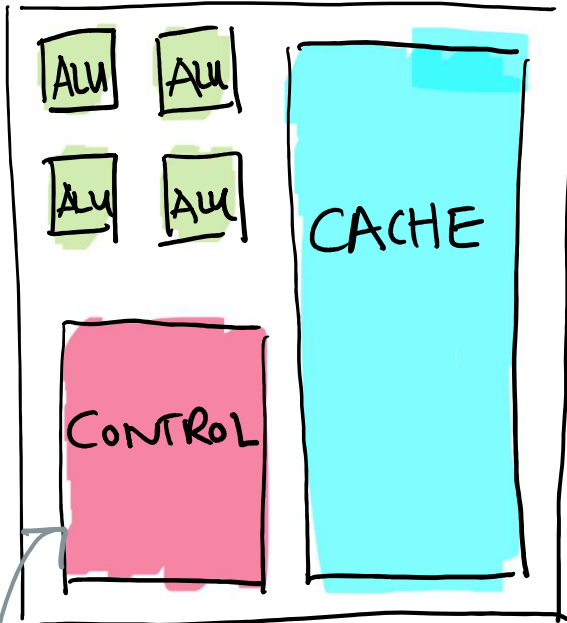


Beschleunigung mittels GPUs

CPU vs. GPU (floor plan)

CPU (SISD)

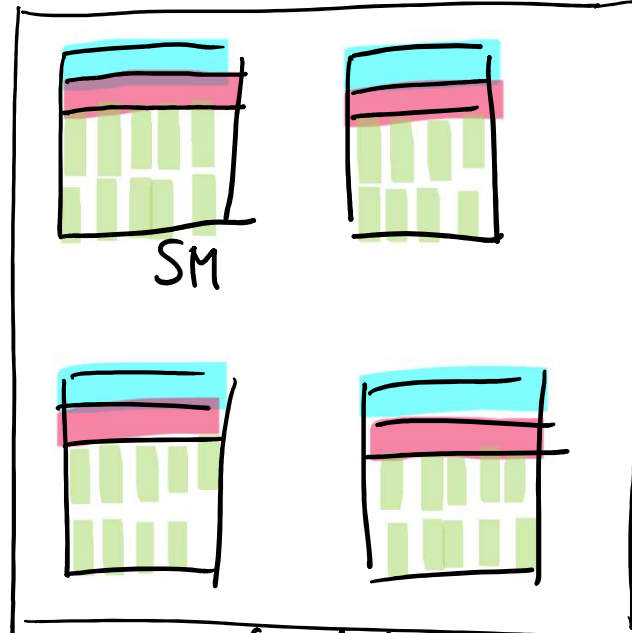


optimiert für niedrige Latenzen

Komplex! z.B. Pipelining,
Branch Prediction, Out of Order Execution

SM:
Streaming
Multiprocessor
z.B.
32 Cores pro
SM

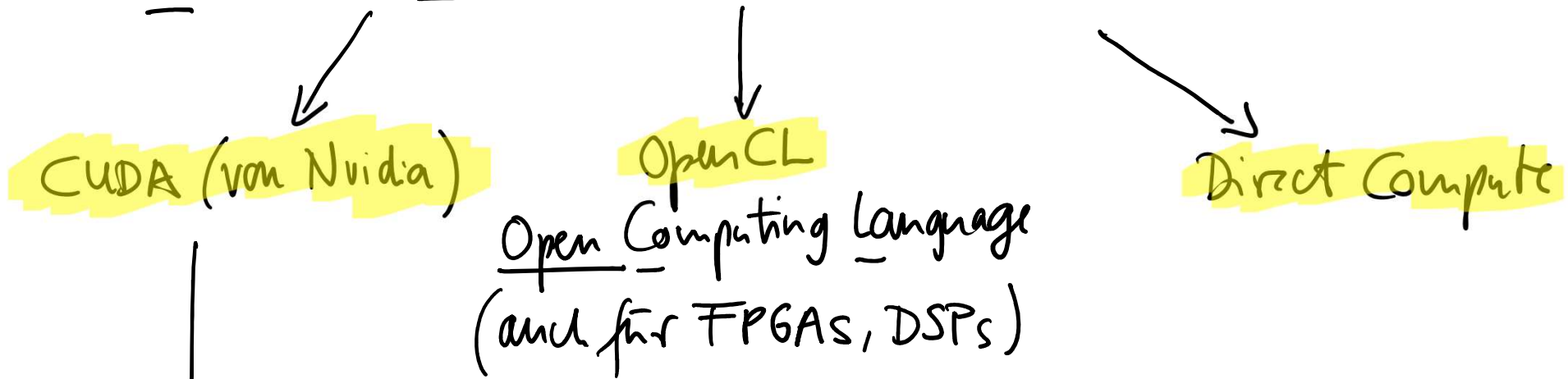
GPU (SIMD)



- optimiert für hohen Durchsatz (Throughput)
- mehr Transistoren für eigentliche Berechnungen

GPGPU

GENERAL PURPOSE COMPUTING ON GPUs



"GPU-Z"

CLOUD COMPUTING

