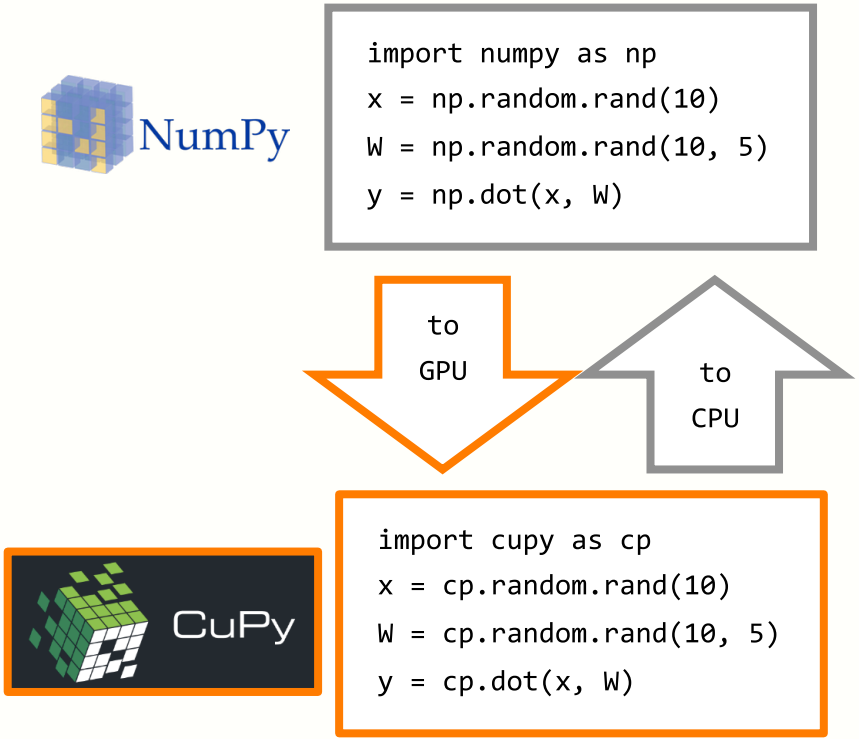
CuPy: A NumPy-Compatible Library for NVIDIA GPU Calculations [Okuta et al.]



1. Highly-compatible with NumPy
   - data types, indexing, broadcasting, operations
   - Users can write CPU/GPU-agnostic code
2. High performance on NVIDIA GPUs
   - cuBLAS, cuDNN, cuRAND, cuSPARSE, and NCCL
3. Easy to install
   - `$ pip install cupy`
4. Easy to write custom kernel
   - ElementwiseKernel, ReductionKernel

Other capabilities of CuPy

- Memory pool, kernel fusion, GPU memory profiler
- CuPy is the GPU backend of Chainer

Preferred Networks