

Intro to Image Processing

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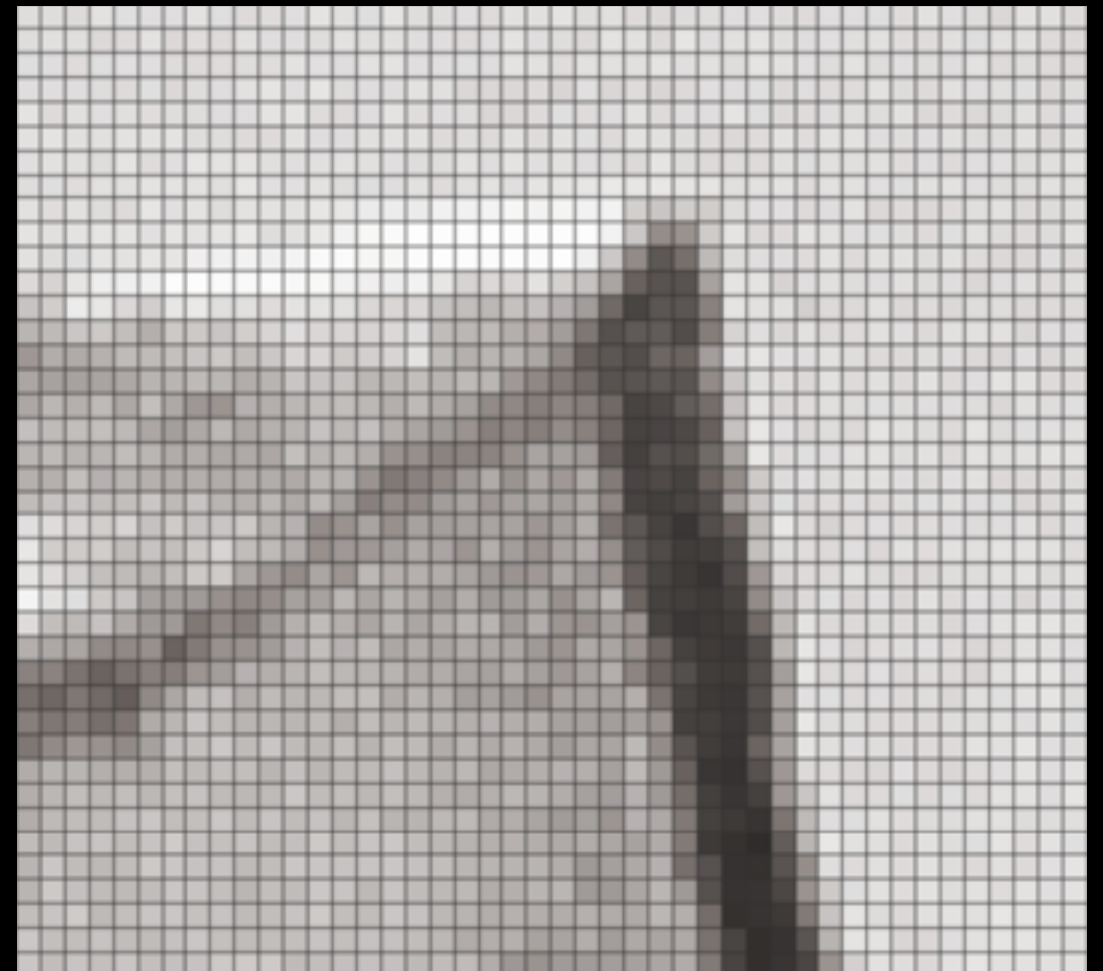
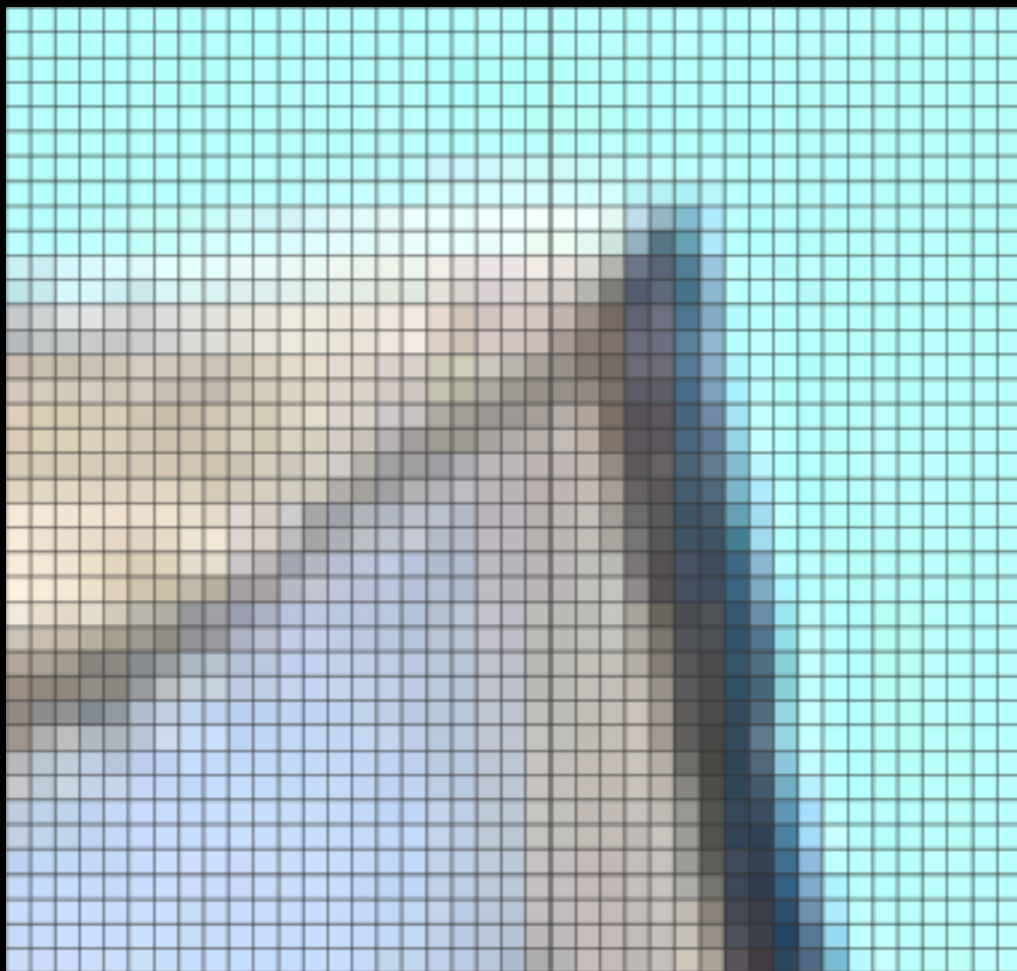
Overview

1. What is Image Processing
2. Common Frameworks
3. Basic Structure / How they work
4. Simple Coding Example
5. Build a framework (ish)

Image Processing

- Pixel operations

Image \rightarrow Data \rightarrow Computation \rightarrow Image



Frameworks

- GPUImage
- CoreImage
- MetalKit



Structure



Input

Input / Output

Output

Structure

Input

- Picture
- Camera
- Data

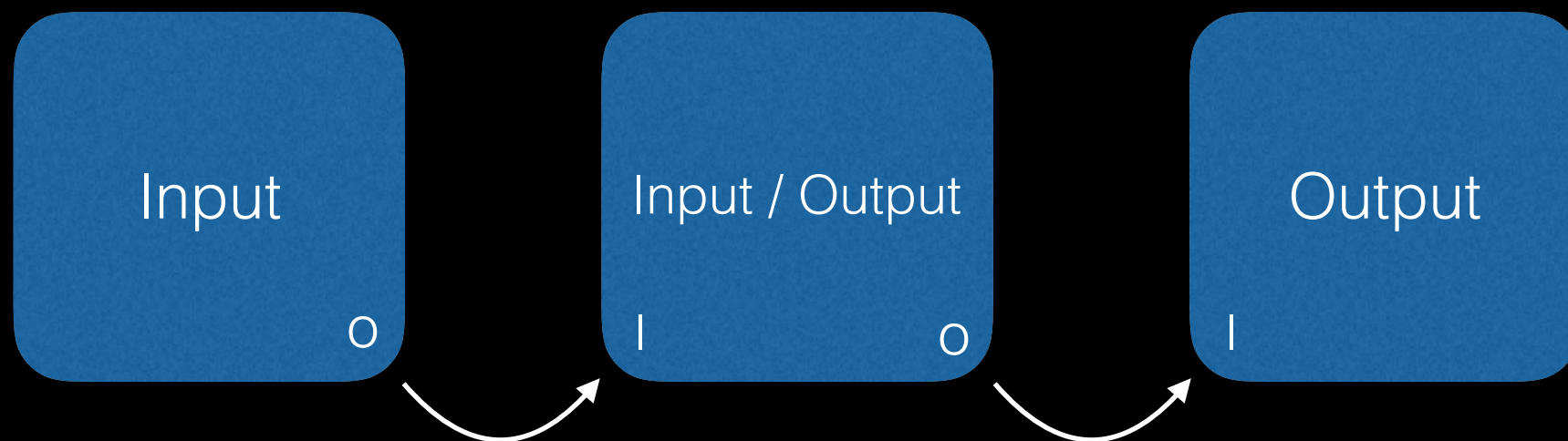
Input / Output

- Filters

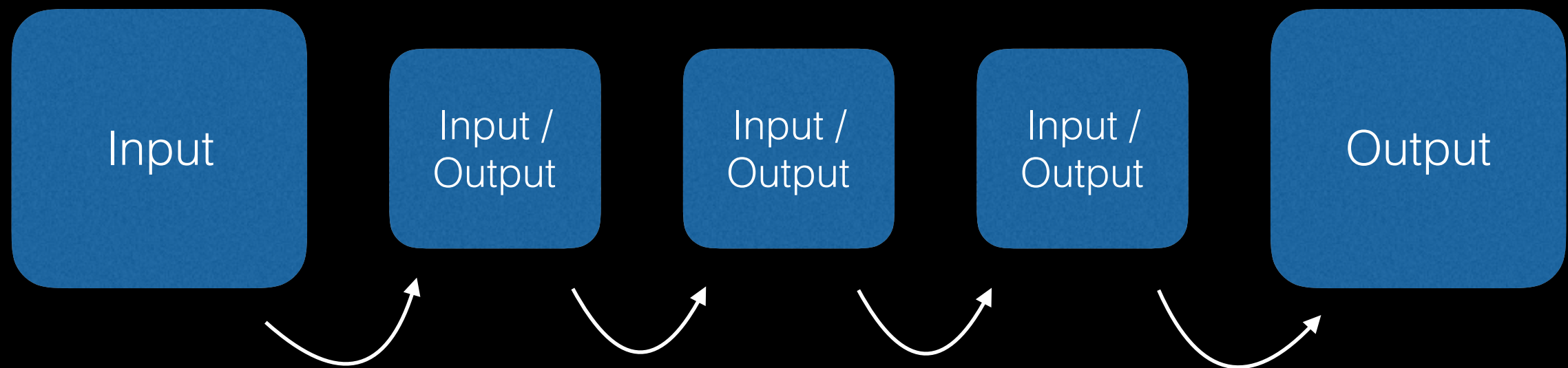
Output

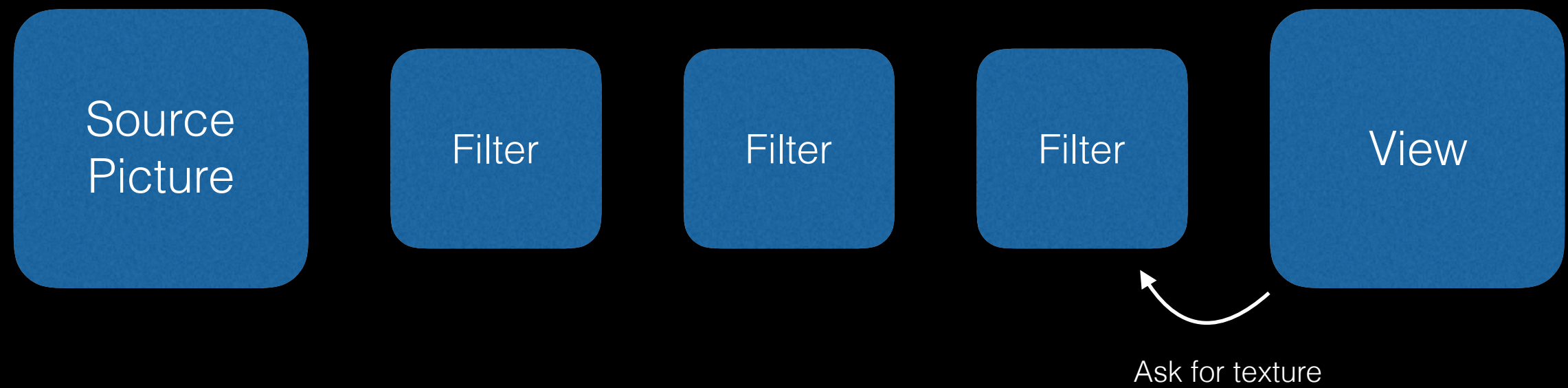
- Image View
- Raw Data

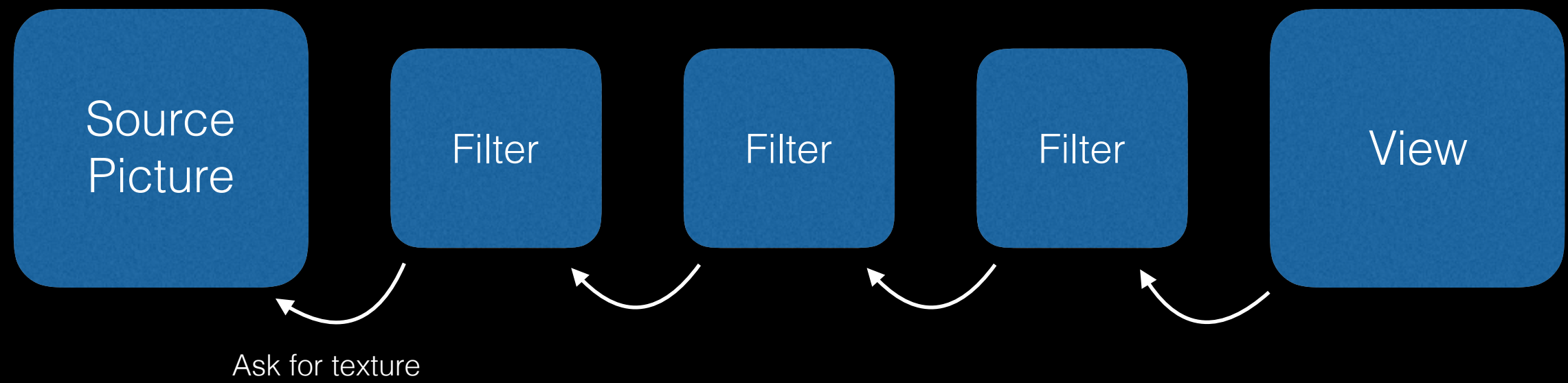
Structure

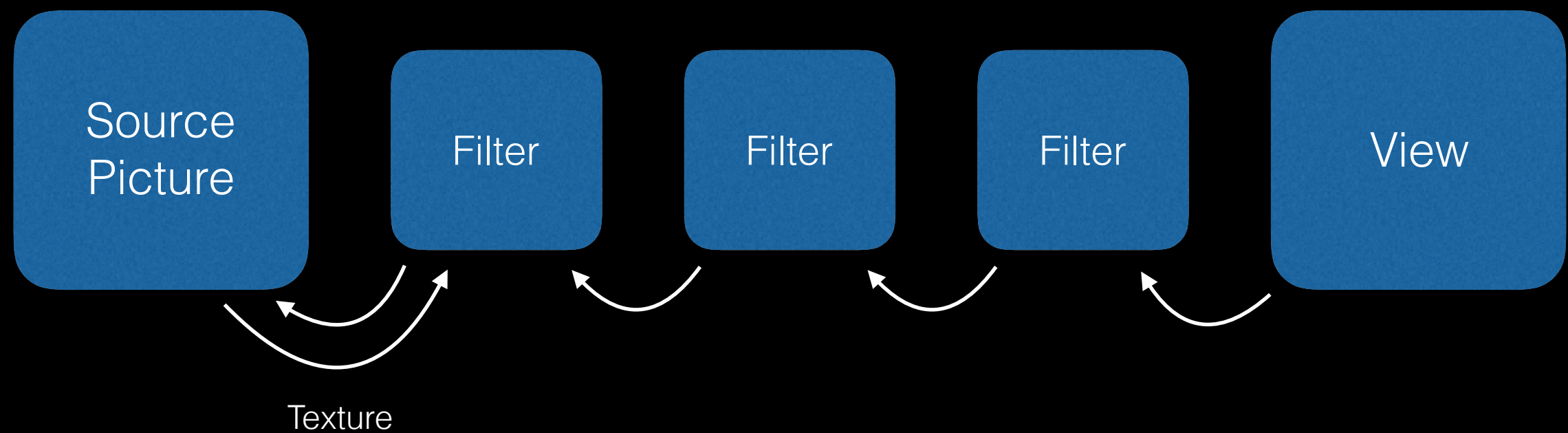


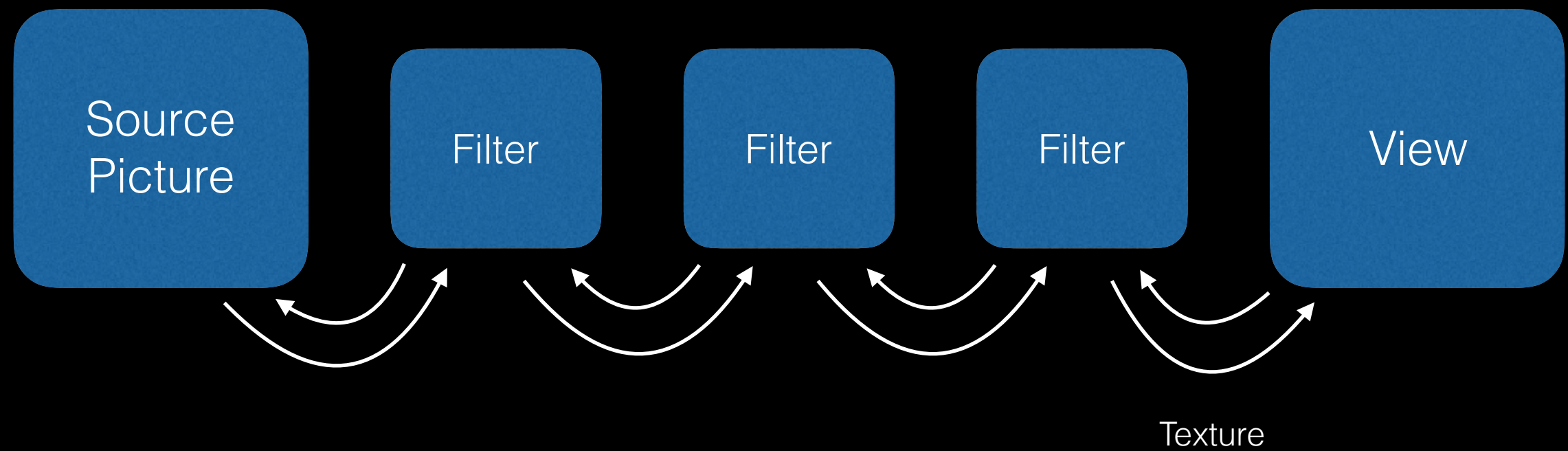
Structure



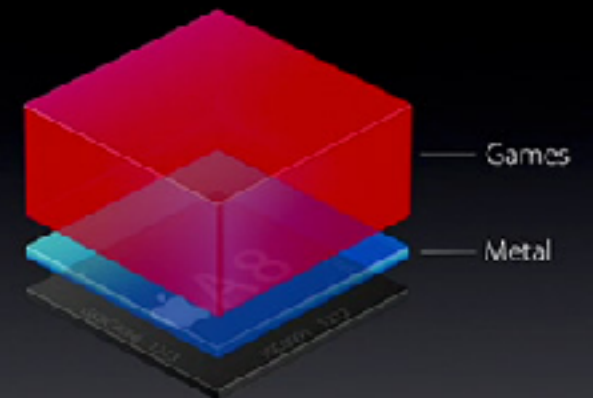
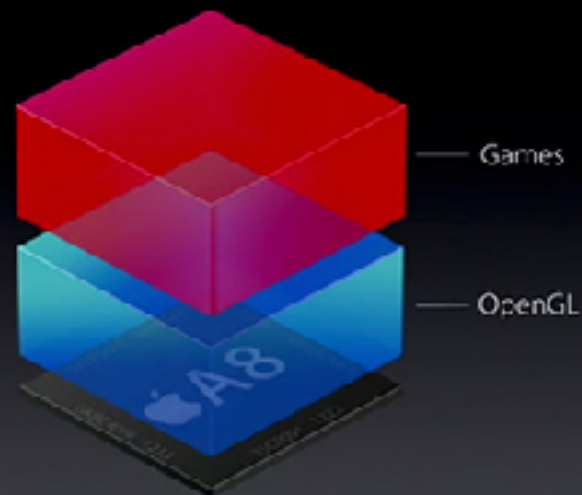








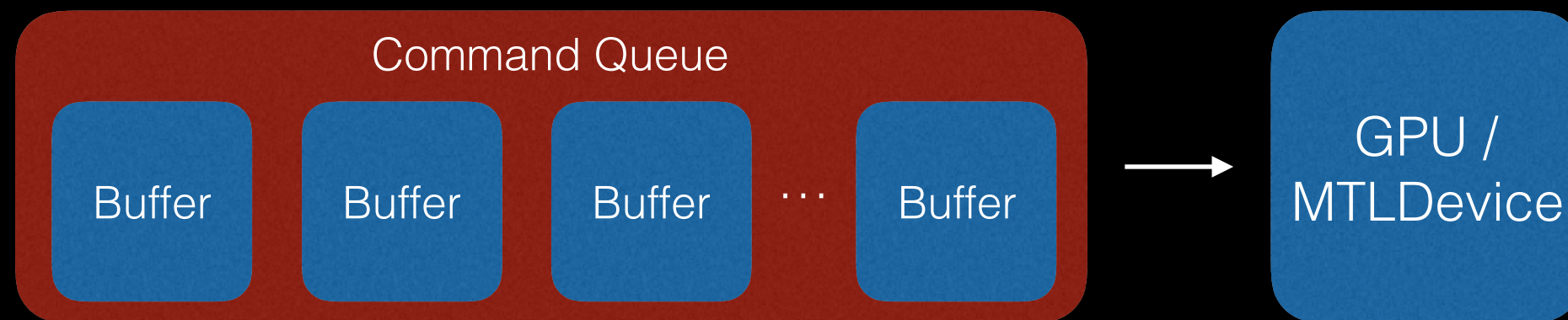
Metal

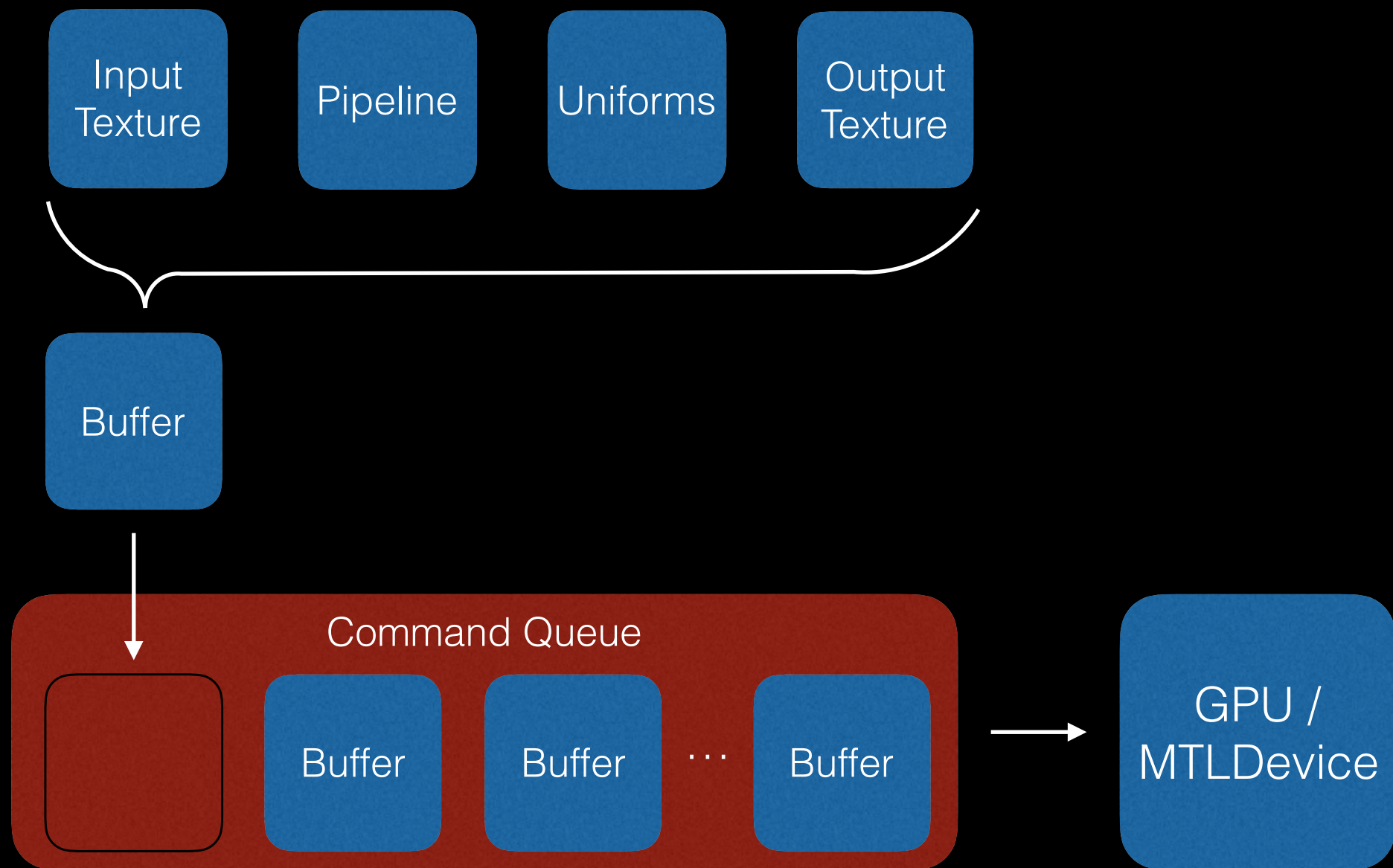


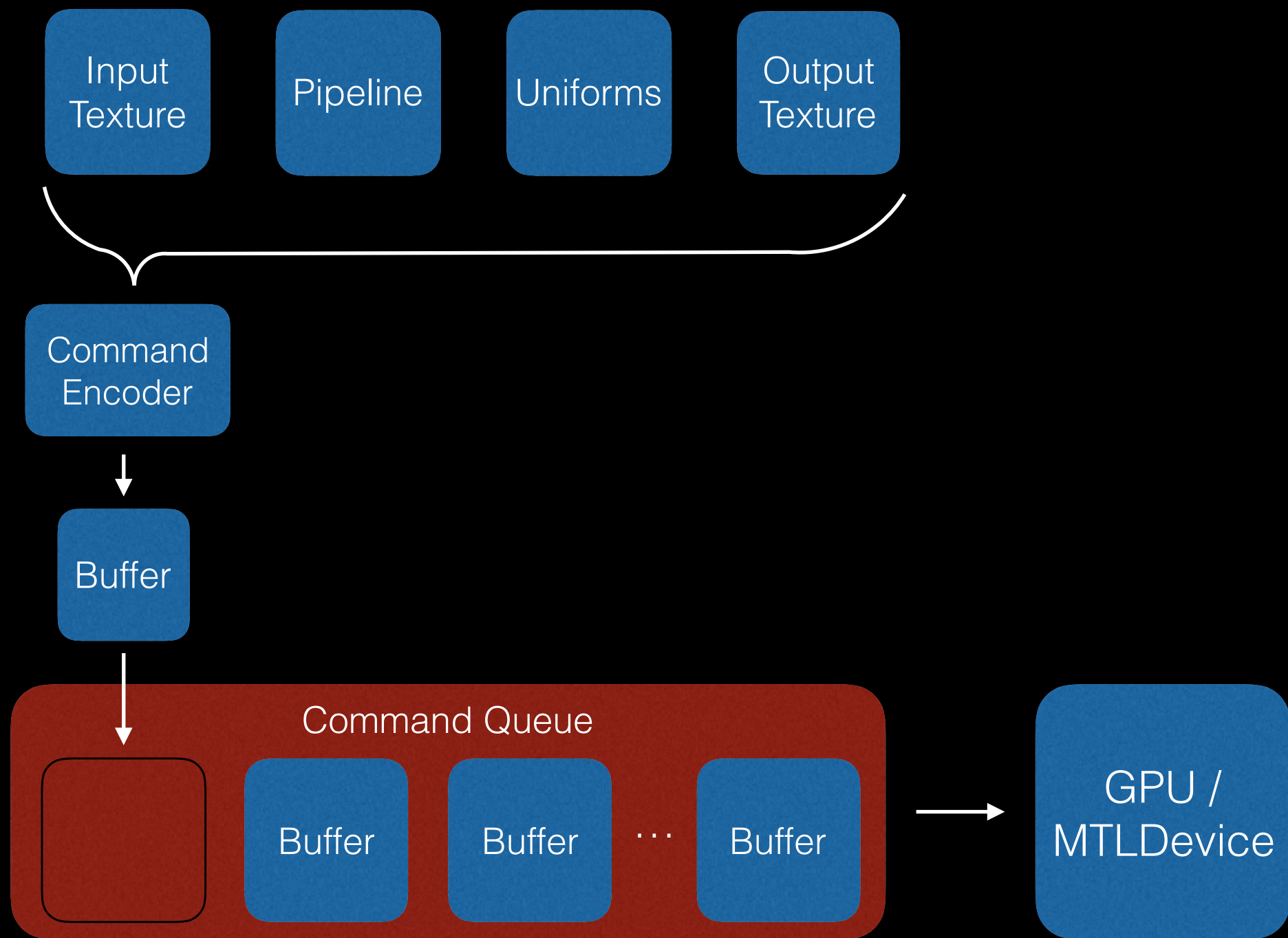
Metal



GPU /
MTLDevice







Questions?