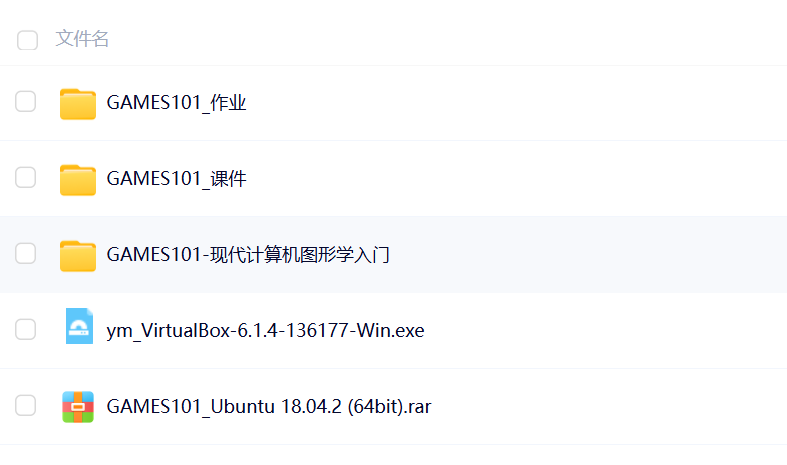
配置环境：

https://pan.baidu.com/s/1ttFTBF\_Bk7eN6X3DE4ca0Q?from=init&pwd=void

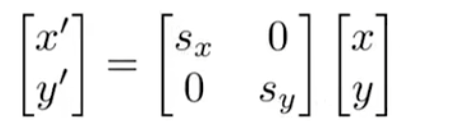
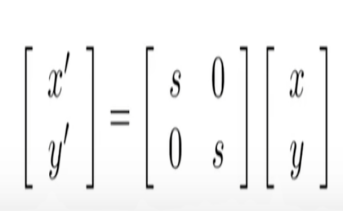


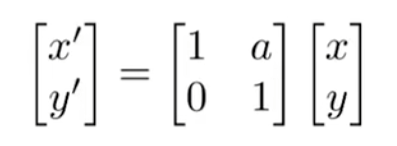
详见作业0

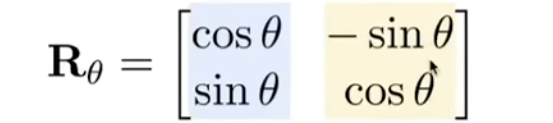
Transformation：

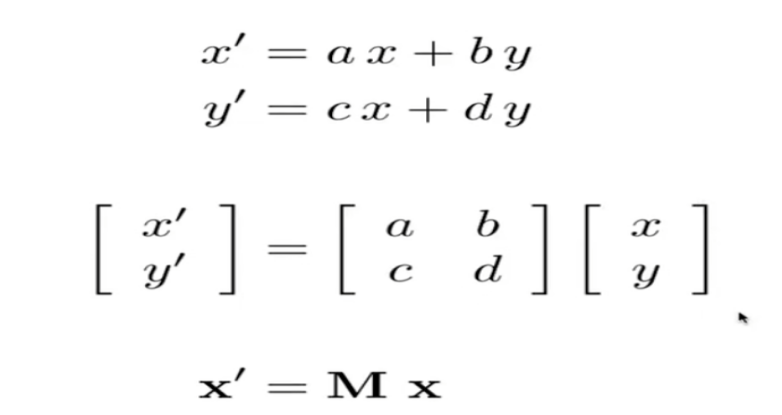
1. Translation；
2. Rotation;
3. Scaling;
4. Projection;

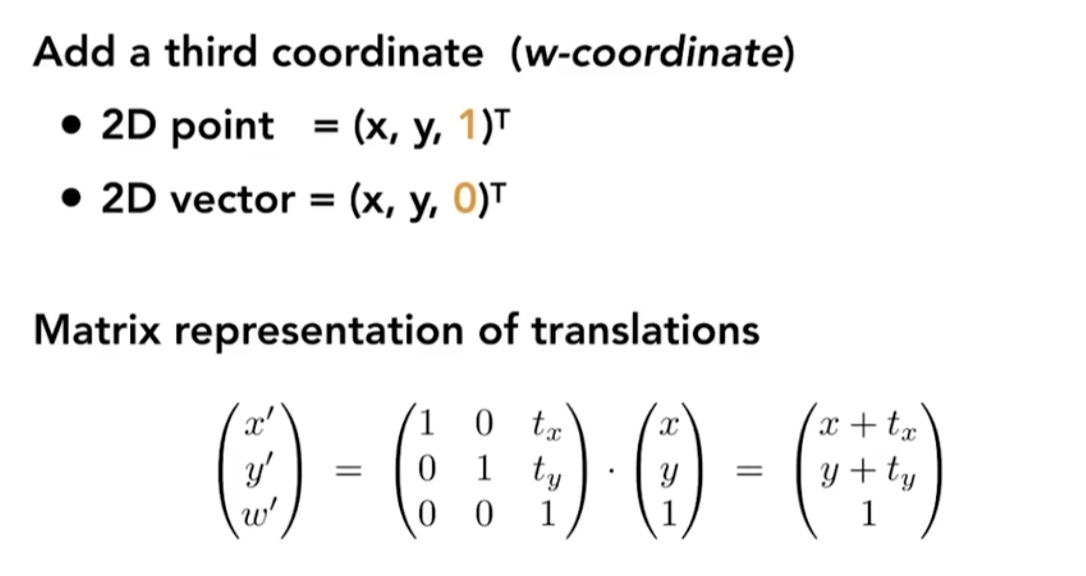
2DTransformation:

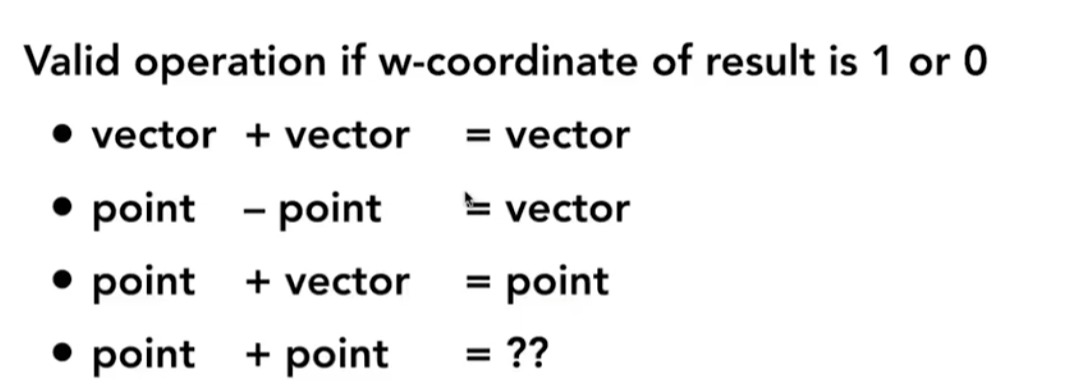
缩放矩阵:

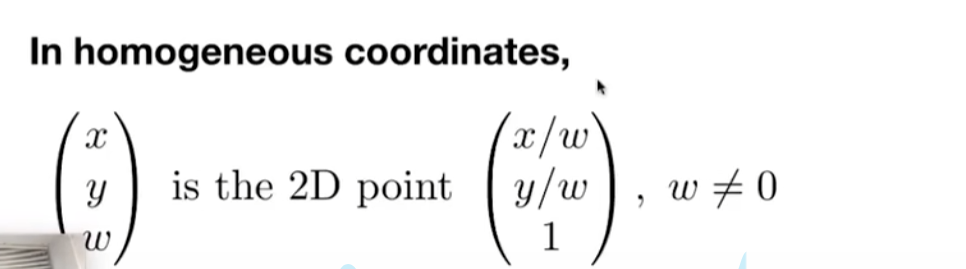
切变矩阵：

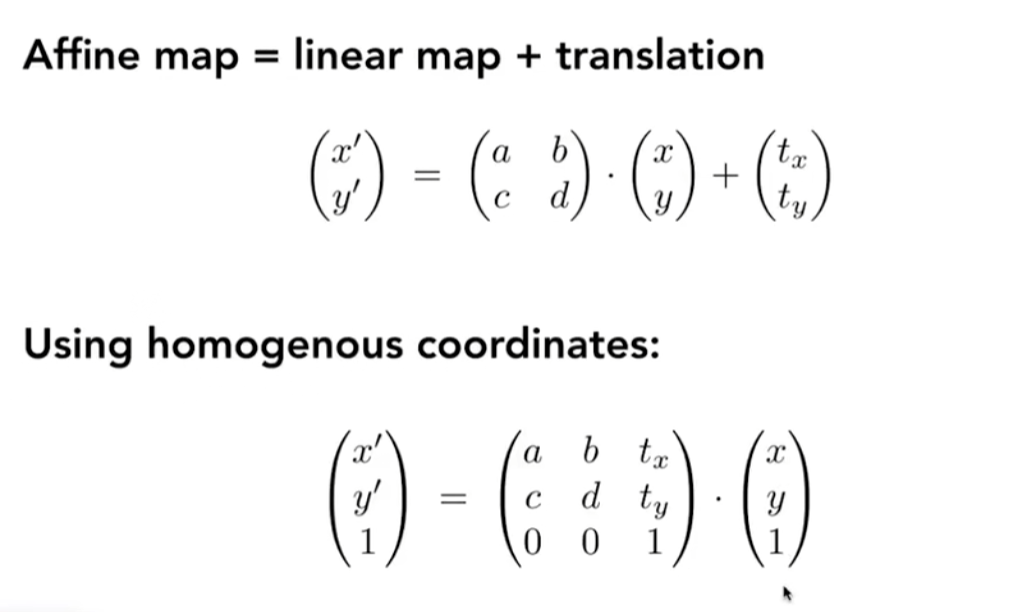
旋转矩阵：

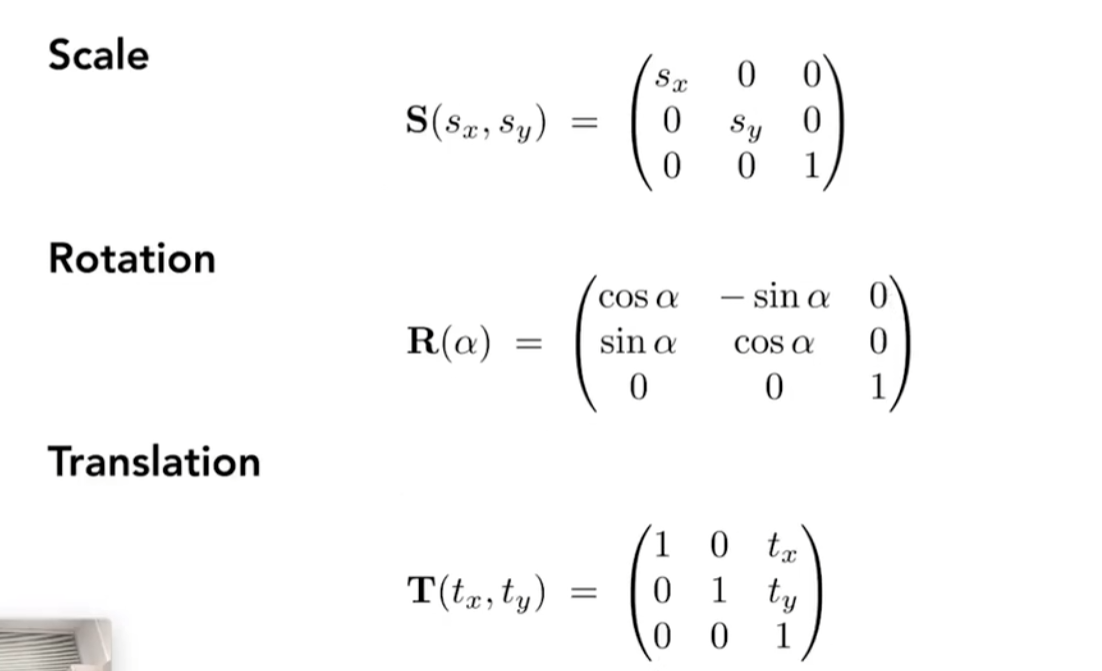


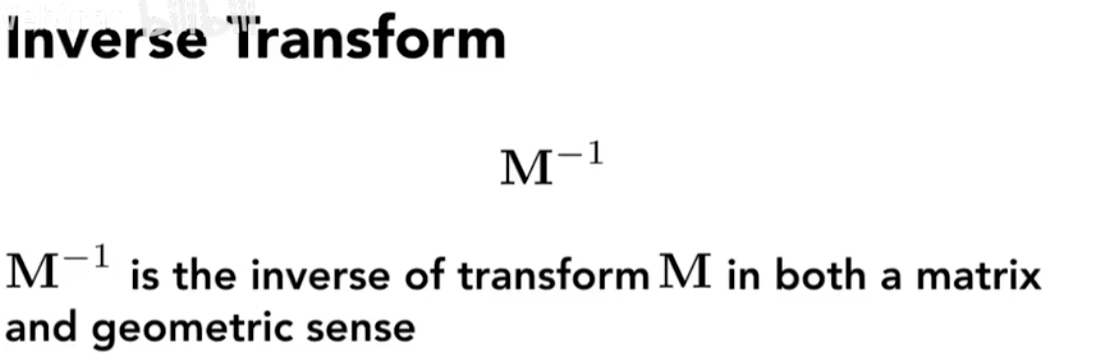
齐次坐标：

区别点和向量

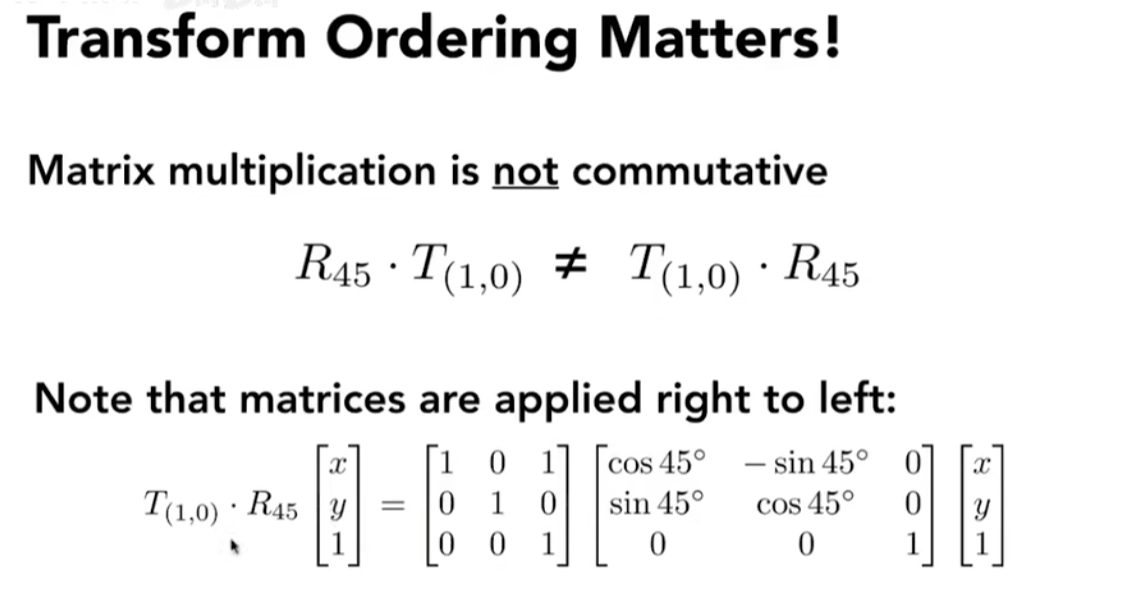
点加点可表示两个点的中点

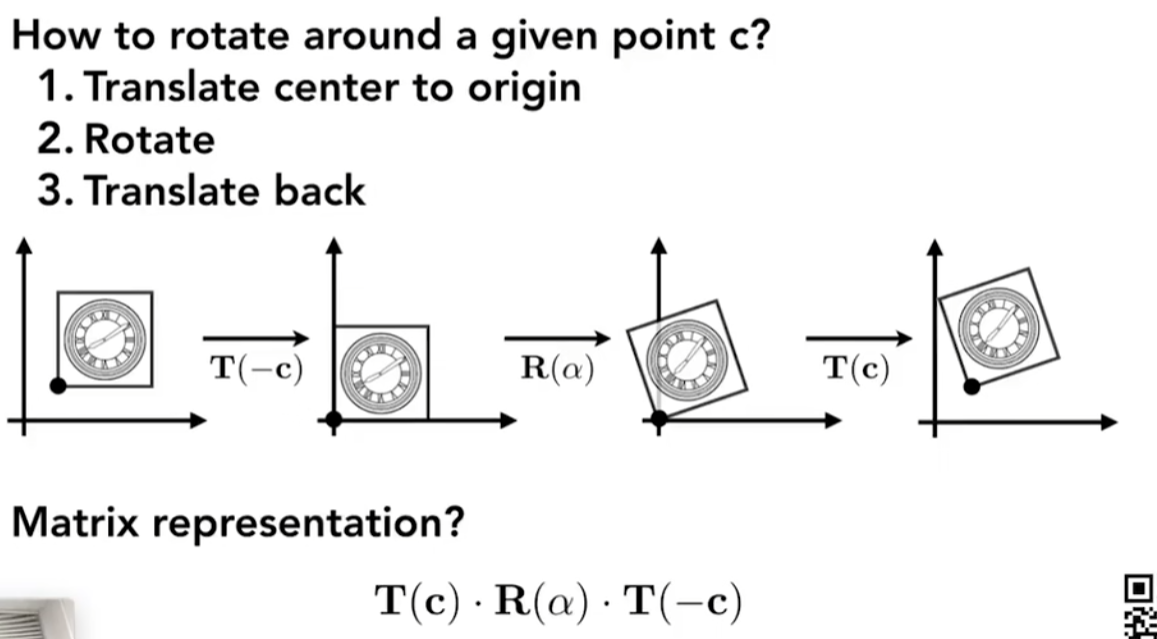
仿射变换



逆变换：

等价于求矩阵的逆。

合成矩阵，顺序十分重要

从右到左