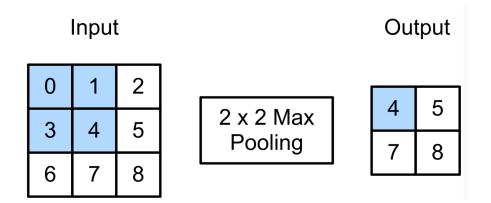
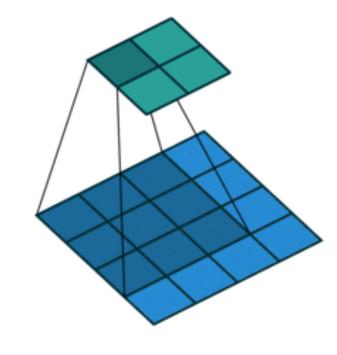
二维最大池化

• 返回滑动窗口中的最大值





$$max(0,1,3,4) = 4$$

二维最大池化



• 返回滑动窗口中的最大值

垂直边缘检测

卷积输出

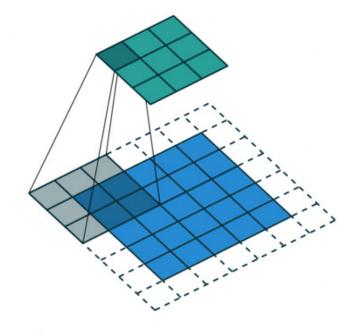
2 x 2 最大池化

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可容1像素移位

填充,步幅和多个通道

- · 池化层与卷积层类似,都具有填充和步幅
- 没有可学习的参数
- 在每个输入通道应用池化层以获 得相应的输出通道
- 输出通道数 = 输入通道数



平均池化层



- 最大池化层:每个窗口中最强的模式信号
- · 平均池化层:将最大池化层中的"最大"操作替换为"平均"

最大池化层



平均池化层



总结



- 池化层返回窗口中最大或平均值
- 缓解卷积层会位置的敏感性
- 同样有窗口大小、填充、和步幅作为超参数