

# Tutorial 2: Introduction to Pytorch

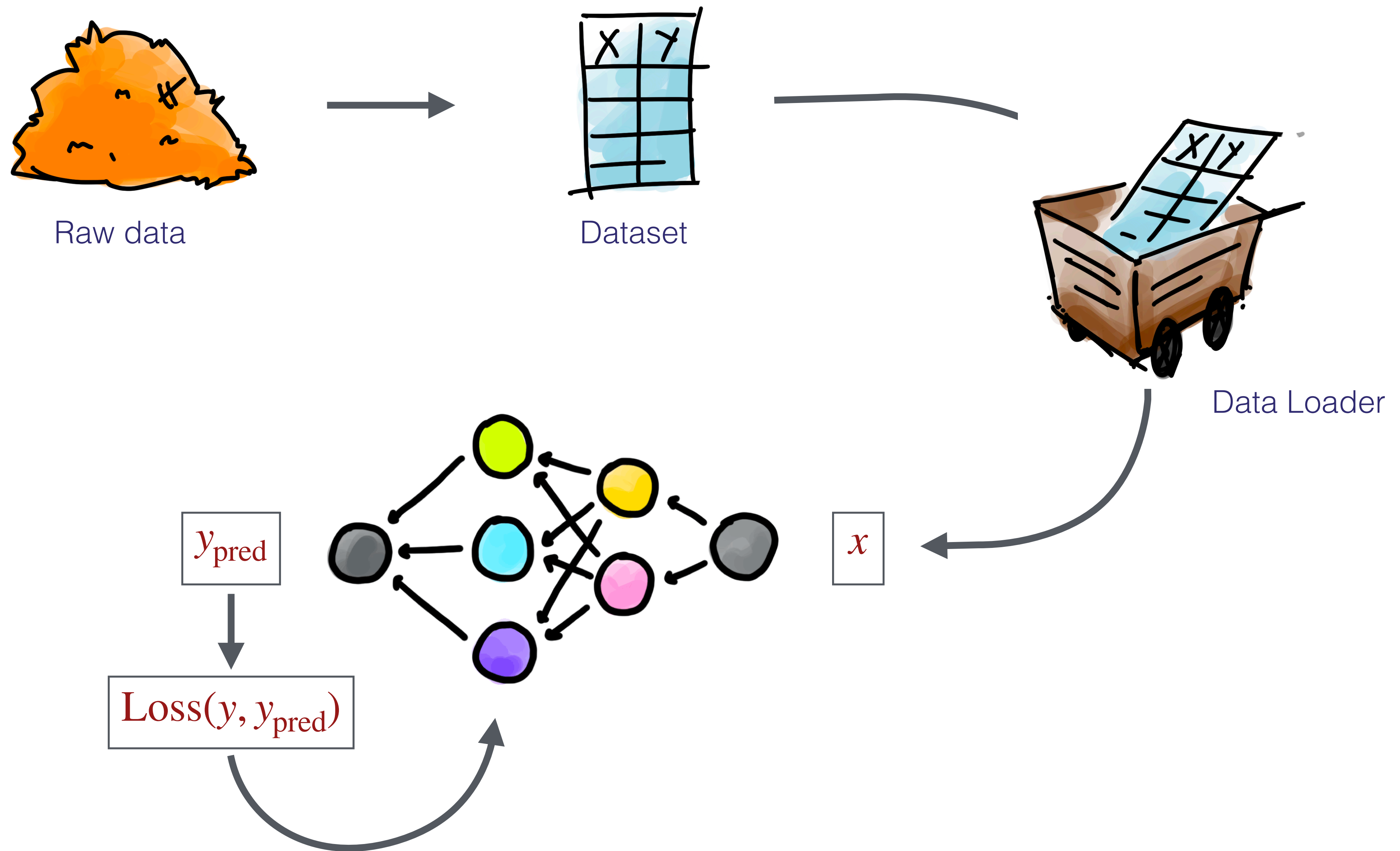
Practical Deep Learning for Science  
09 May, 2023

- *Nilotpal*

# PYTÖRCH

# The PyTorch pipeline

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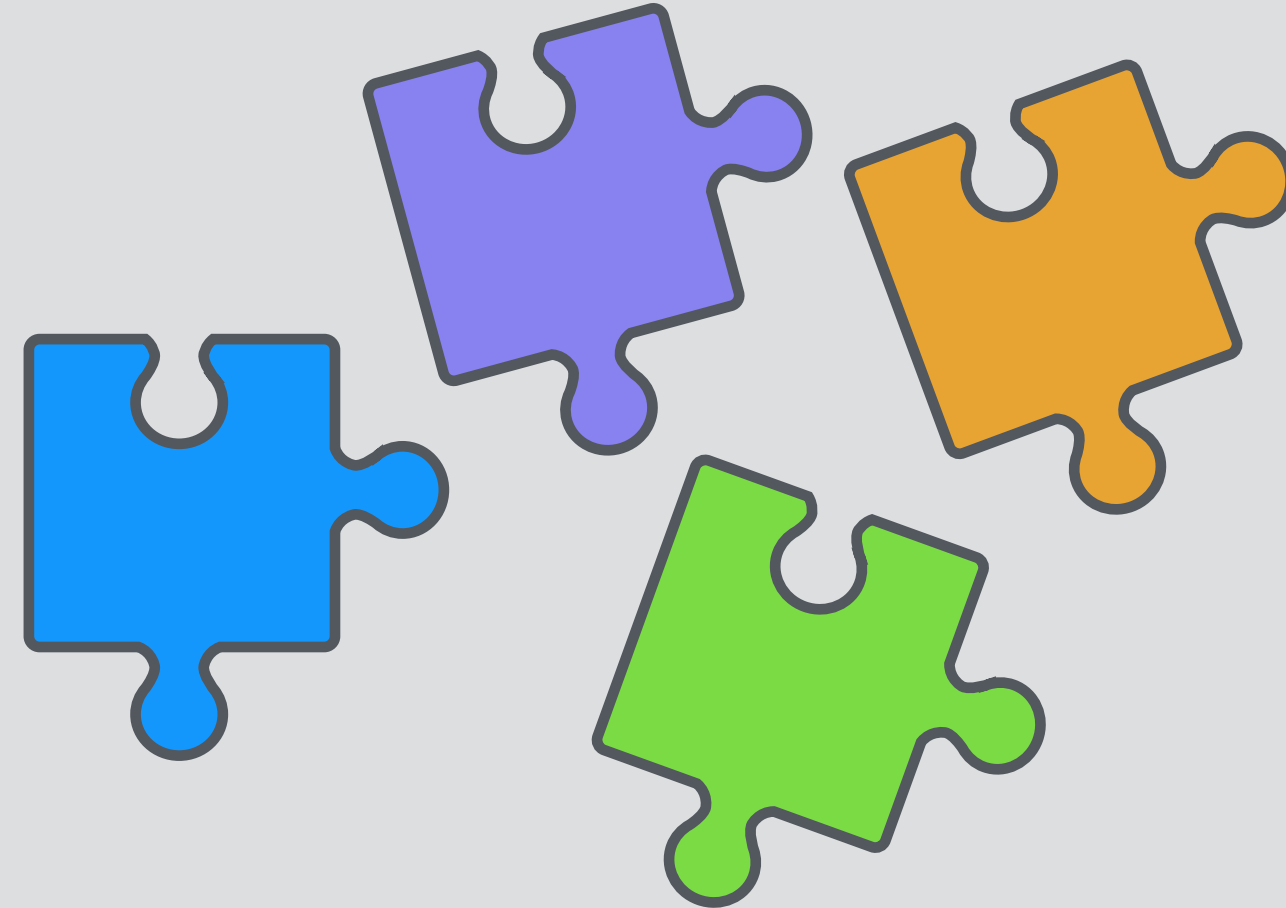


# Creating the network with torch

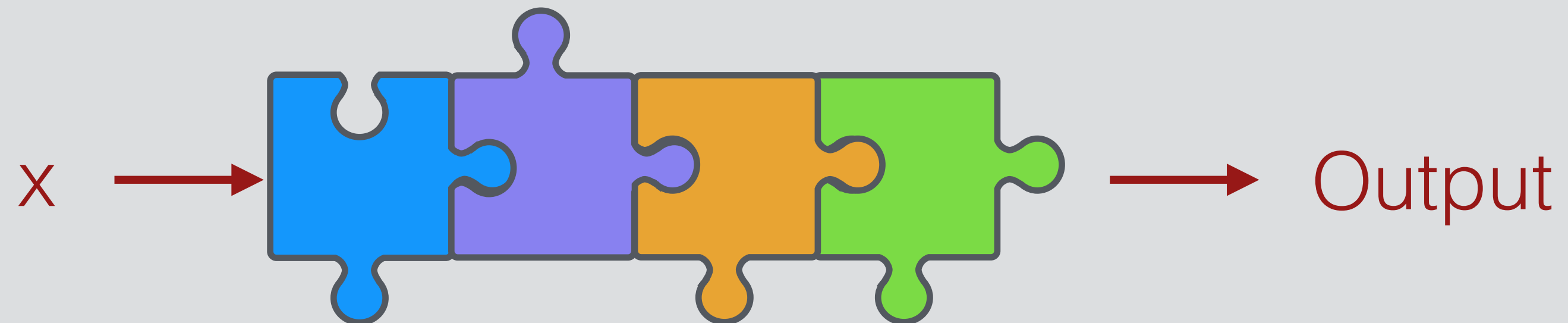
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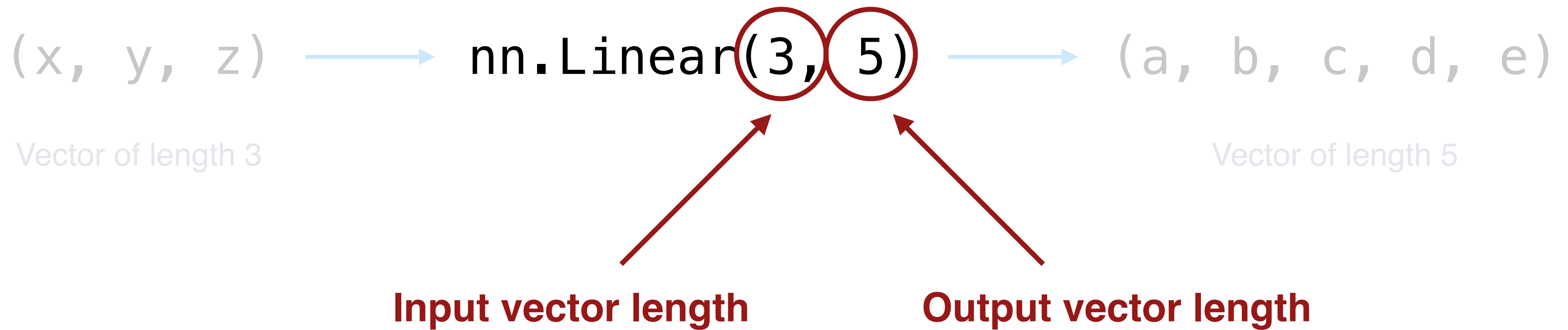
```
class MyNet(nn.Module):
```

```
    def __init__(self):
```



```
    def forward(self, x):
```





$$\begin{matrix}
 (x, y, z) & \begin{pmatrix} w_{11} & w_{12} & w_{13} & w_{14} & w_{15} \\ w_{21} & w_{22} & w_{23} & w_{24} & w_{25} \\ w_{31} & w_{32} & w_{33} & w_{34} & w_{35} \end{pmatrix} & + & (b_1 & b_2 & b_3 & b_4 & b_5) & = & (a & b & c & d & e) \\
 1 \times 3 & & & & & 1 \times 5 & & & 1 \times 5 \\
 & 3 \times 5 & & & & & & & 
 \end{matrix}$$

# Before we wrap up...

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# Before we wrap up...

## ✦ Slack

- ➔ Your primary lifeguard

## ✦ Final project

- ➔ Start (early) by creating a slack channel
- ➔ Keep it private (you don't wanna spam everyone)

## ✦ Feedback