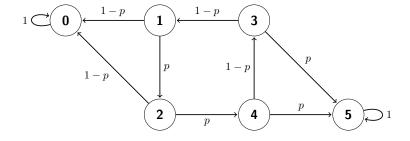
## Diagramming workshop

Jono Tuke

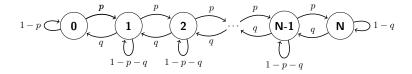
9/7/22

## Tikz

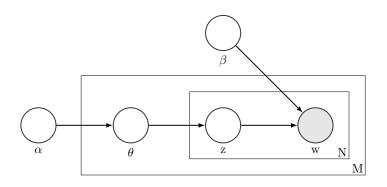
# Example 1: Markov chain 1



## Example 2: Markov chain 2



## Example 3: Plate diagram



#### **Tricks**

- ▶ TextExpander
- Makefile

## Omnigraffle

- Connections
- Magnets
- ▶ LaTeXiT
- Layouts
- Exporting
- Computer Modern

### DiagrammeR

```
http://rich-iannone.github.io/DiagrammeR/graphviz\_and\_mermaid.html\\
```

pacman::p\_load(DiagrammeR)

#### **TikzDevice**

 ${\tt pacman::p\_load(tikzDevice)}$ 

### MPG plot

pdf 2

```
tikz("tikz/mpg.tex", standAlone = TRUE)
mpg |>
    ggplot(aes(displ, cty, col = drv)) +
    geom_point()
dev.off()
```

#### Input

pdf 2

```
tikz("tex/mpg.tex", width = 4, height = 4,standAlone = FALS
mpg |>
    ggplot(aes(displ, cty, col = drv)) +
    geom_point()
dev.off()
```

#### Maths

2

```
tikz("tikz/mpg_annotated.tex", standAlone = TRUE)
mpg |>
  ggplot(aes(displ, cty, col = drv)) +
  geom_point() +
  geom_text(x = 5, y = 25,
            label = "$y i = \\beta 0 + \\beta 1x i + \\eps:
            col = "black") +
  labs(x = "Displacement ($m^3$)")
dev.off()
pdf
```