

# sparrows

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sparrows, BPA, chap 01

reference:

- Kéry and Schaub, 2012, Bayesian Populaton Analysis Using WinBUGS, Academic Press

```
library(ggplot2)
```

## sparrows

### data

```
n <- 16
p <- 0.4
obs <- rbinom(1e6, size=n, prob=p)
```

### statistics

```
mean(obs)
```

```
## [1] 6.403564
```

```
sd(obs)
```

```
## [1] 1.957391
```

### histogram

```
data <- data.frame(y = obs)
ggplot(data, aes(y)) +
  geom_histogram(binwidth = 1, color = "saddlebrown", fill = "wheat")
```

