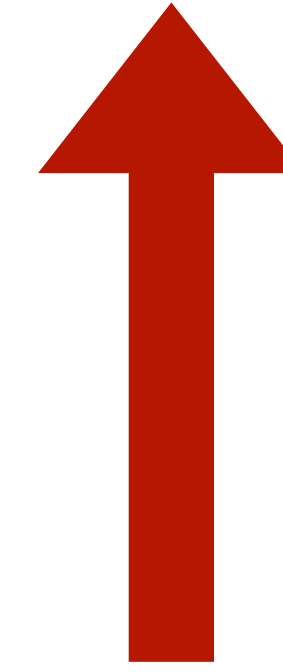


$$W_i = \beta H_i + U_i$$

$$U_i \sim \text{Normal}(0, \sigma)$$

$$H_i \sim \text{Uniform}(130, 170)$$



R code
3.2

```
# function to simulate weights of individuals from height
sim_weight <- function(H,b,sd) {
  U <- rnorm( length(H) , 0 , sd )
  W <- b*H + U
  return(W)
}
```

