

```
RM_erdos <- function(N, p, stoch = T){  
  # Generate an [N x N] Erdos-Renyi stochastic matrix by stacking N p-stochastic rows  
  P <- do.call("rbind", lapply(X = rep(N, N), FUN = .stoch_row_erdos, p = p))  
  # Return the Erdos-Renyi transition matrix  
  P  
}
```