

# Probability distributions in buses Cheat Sheet by opochapskyy via cheatography.com/85804/cs/20055/

# Discrete

# Uniform

Probability of any possible bus to arrive to the station is the same

### Bernoulli

Probability of a bus to arrive to the station with free seat

#### **Binomial**

How many buses out from N will arrive to the station with free seats

#### Geometric

How many buses to skip to get to the bus with free seat

### Negative binomial (Pascal)

How many non free buses will come until N buses with free seats with arrive

### Poisson

Average time units between 2 buses

# Continuous

## Exponential

Time to wait until next bus

# Gamma

Time to wait for N buses to arrive

## Beta

Number of free seats out of all seats in the bus



By opochapskyy

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