Reading 08: Document Tools

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Overview

For this experiment, I created **three** scripts:

- 1. roll_dice.sh: This script simulates rolling a dice.
- 2. experiment.sh: This script uses roll_dice.sh to perform an experiment and then collect that data into results.dat.
- 3. histogram.plt: This script uses gnuplot to create a graph of the data in results.dat.

Rolling Dice

First, I created a script called roll_dice.sh that uses the shuf command to simulate rolling a die with a certain number of *sides* for a specified amount of *rolls*.

Experiment

Second, I created a script called experiment.sh that uses roll_dice.sh to simulate rolling a six-sided die 1000 times. My script uses awk to collect the results into a single file called results.txt.

Results

Table 1 contains the results of my experiment of rolling a dice 1000 times:

Side	Counts
1	177
2	153
3	182
4	170
5	154
6	164

Table 1: Dice Rolling Results

Figure 1 contains a plot of my experimental results as produced by histogram.plt:

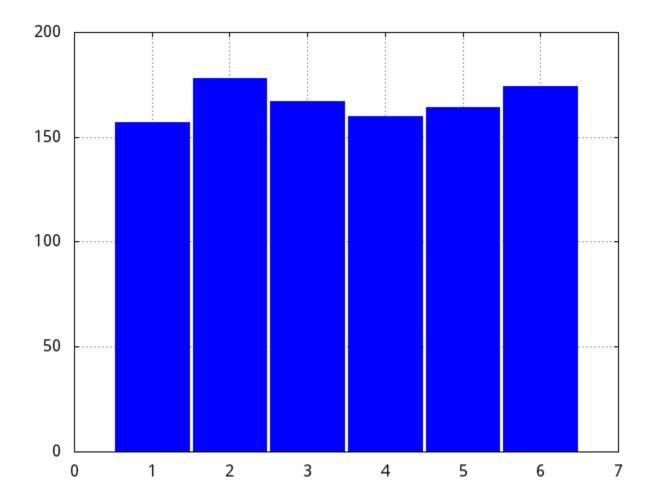


Figure 1: Dice Rolling Results