

Graphing Guide

Experimental Design

Overview

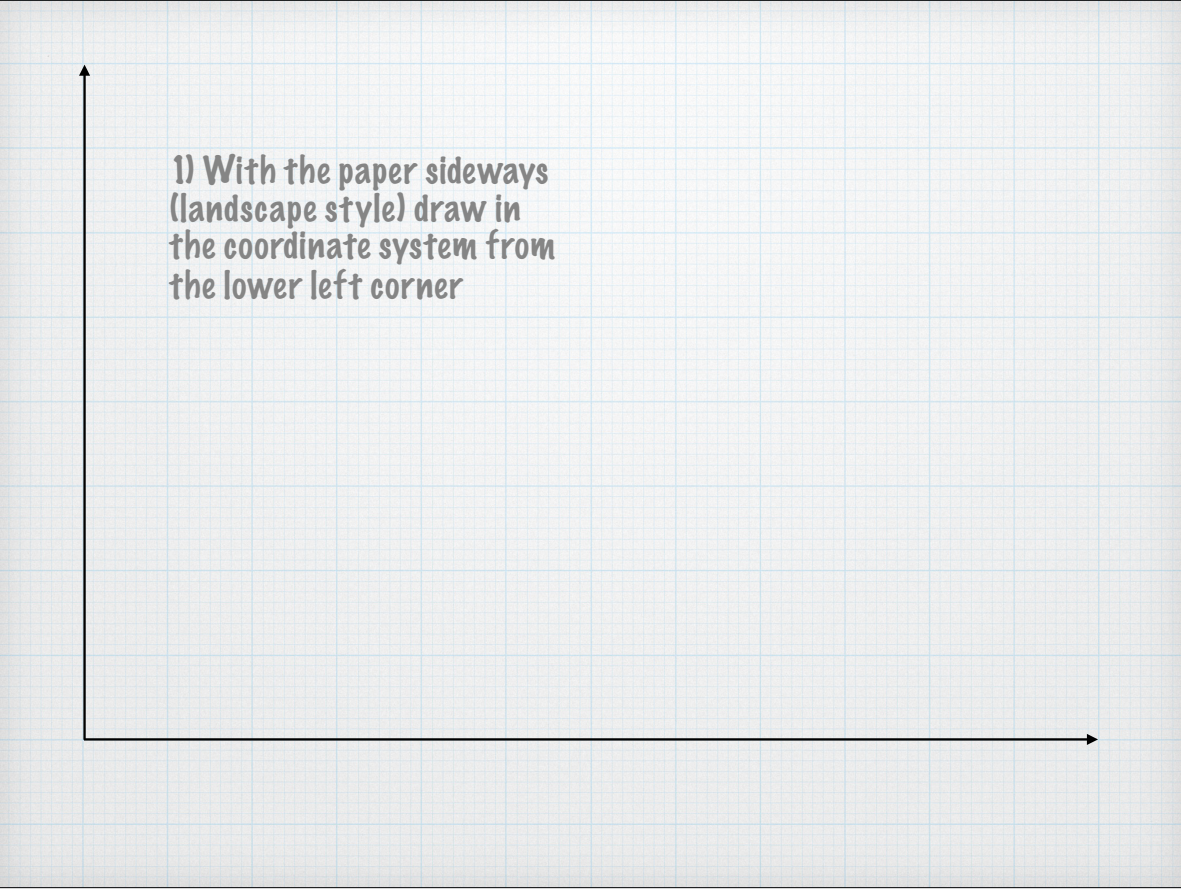
- * This guide is meant to give an annotated description of how to hand plot simple graphs on a full sheet of graph paper. The method described is the fastest way I know to plot data, though it is not the prettiest. It's meant to get the job done with minimal mistakes or errors.

Fictional Data

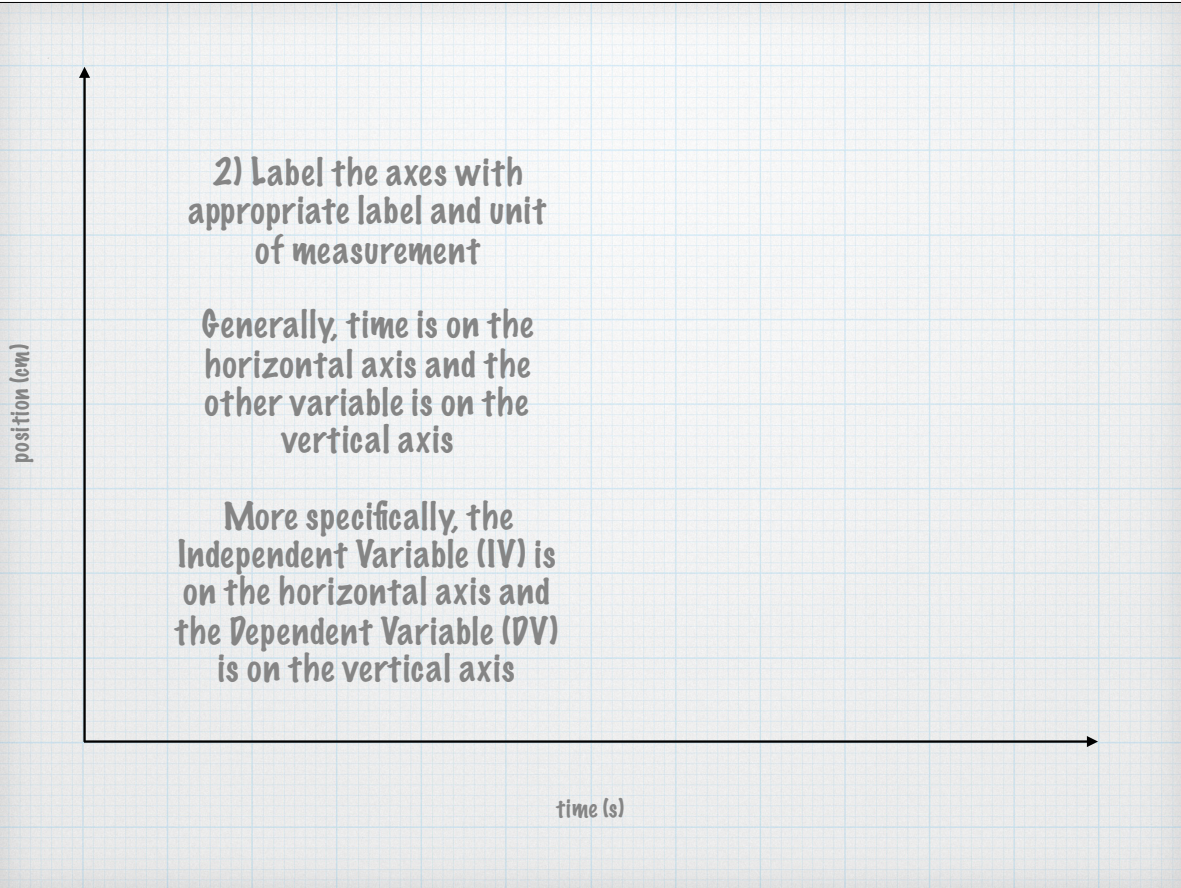
- * You measure the position and time data for a toy ball rolling across the floor.
- * In this case we choose the time when we take the measurements (Independent Variable) and the position the ball is at, at that time, is the Dependent Variable.

Fictional Data

position (x)	time (s)
3	1
6	2
7	3
9	4
10	5
13	6
15	7



1) With the paper sideways (landscape style) draw in the coordinate system from the lower left corner



2) Label the axes with appropriate label and unit of measurement

Generally, time is on the horizontal axis and the other variable is on the vertical axis

More specifically, the Independent Variable (IV) is on the horizontal axis and the Dependent Variable (DV) is on the vertical axis

position (cm)

time (s)

