

## Installing V-REP on Ubuntu 16.04

This file will help you to install V-REP (Virtual Robot Experimentation Platform) on your Linux Ubuntu (16.04) machine.

### What is V-REP?

V-REP is a simulator which is based on distributed control architecture: each object/model can be individually controlled via an embedded script, a plugin, a ROS node, a remote API client, or a custom solution. V-REP is very versatile and ideal simulation software for various applications like simulation of factory automation systems, Remote monitoring, Hardware control, Robot related education etc. V-REP can be used as a stand-alone application or can easily be embedded into a main client application; its small footprint and elaborate API makes V-REP an ideal candidate to embed into higher-level applications.

### Installing instructions:

This document assumes that the host OS on which V-REP is to be installed is **Ubuntu 16.04 LTS**. This document offers a very concise walkthrough of the V-REP installation. For a detailed explanation of VREP, please visit the [V-REP user manual installation page](#).

Follow the guidelines to run V-REP:

- Download V-REP for Ubuntu ([64-bit](#)) / ([32-bit](#)) [Direct Download].
- After downloading **V-REP\_PRO\_EDU\_V3\_5\_0\_Linux.tar.gz**, right click it and select open with archive manager and extract to your *home*.
- Open terminal and using `cd` command enter into the directory **V-REP\_PRO\_EDU\_V3\_5\_0\_Linux**.

```
cd ~/V-REP_PRO_EDU_V3_5_0_Linux
```



# V Rep User Manual

**Manuel F. Silva, José Luís Lima, Luís  
Paulo Reis, Alberto Sanfeliu, Danilo  
Tardioli**

## **V Rep User Manual:**

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web what is the midpoint of line segment a b  $\overline{ab}$  a b start  $\overline{a}$  b end  $\overline{b}$  an x y coordinate plane where the x and y tick marks scale by one a line segment a b has endpoint a at negative two four and endpoint b is at seven three

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web distance formula to measure the distance between two points in an orthogonal coordinate system we use a formula that is very important in geometry this formula is actually extracted from the pythagorean theorem as it is written below  $a^2 + b^2 = d^2$  in which d is the length of the hypotenuse of a right triangle the longest side

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web midpoint and distance formulas values from the given points and solve values and halfway between the two values from the given points and solve simplify the fractions to get the final answer if a line has a midpoint at and the endpoints are what is the value of now we need to create a new equation to solve for the

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web what are the coordinates of the midpoint  $m$   $\frac{4+2}{2}$   $\frac{2+4}{2}$  compare the  $x$  coordinates of  $a$  and  $b$  and  $m$  compare the  $y$  coordinates of  $a$  and  $b$  and  $m$   $\frac{5+2}{2}$   $\frac{2+2}{2}$  how are the coordinates of the midpoint  $m$  related to the 4 coordinates of  $a$  and  $b$  making sense of problems

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web oct 4 2015 midpoint formula the midpoint between two points  $p$  and  $q$  is the point on the line segment  $pq$  that is halfway between  $p$  and  $q$  the formula for the midpoint is where the coordinates of  $p$  are and the coordinates of  $q$  are example find the midpoint of the line segment between  $p$   $1$   $5$  and  $q$   $4$   $3$  solution using the formula the

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web what is the midpoint formula the formula gives the midpoint of the points  $greend$   $x_1$   $goldd$   $y_1$   $x_2$   $y_2$  and  $greend$   $x_2$   $goldd$   $y_2$  in the coordinate plane left  $greend$   $\frac{x_1 + x_2}{2}$   $goldd$   $\frac{y_1 + y_2}{2}$  right  $2x_1$   $x_2$   $2y_1$   $y_2$

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web the formula for finding out the median is the sum of those two numbers divided by two ie  $\frac{a+b}{2}$  where  $a$  and  $b$  are numbers for whom you want to find the median here  $s$  how it works suppose you have a line segment on the number line with start point  $3$  and end point  $5$  the midpoint of the segment is  $4$

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web 21 endpoint  $1$   $9$  midpoint  $9$   $10$  22 endpoint  $2$   $5$  midpoint  $5$   $1$  23 endpoint  $5$   $2$  midpoint  $10$   $2$  24 endpoint  $9$   $10$  midpoint  $4$   $8$  25 endpoint  $9$   $7$  midpoint  $10$   $3$  26 endpoint  $6$   $4$  midpoint  $4$   $8$

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web may 28 2023 example 11 2 use the distance formula to find the distance between the points  $5$   $3$  and  $7$   $2$  answer write the distance formula  $d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$  label the points  $x_1$   $y_1$   $5$   $3$   $x_2$   $y_2$   $7$   $2$  and substitute  $d$

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web 1 use the distance formula 2 use the midpoint formula examples 1 find the distance between the points  $3$   $7$  and  $4$   $10$  2

determine whether the triangle formed by points  $A(2, 2)$ ,  $B(2, 1)$  and  $C(5, 4)$  is a right triangle  
 3 find the midpoint of the line segment joining the points  $P_1(6, 3)$  and  $P_2(4, 2)$  teaching notes

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web the blue text midpoint midpoint of the points  $(x_1, y_1)$  and  $(x_2, y_2)$  is given by the following formula  

$$\left( \frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2} \right)$$
 in this article we are going to derive this formula

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web how to find distance between two points to find distance between points  $A(x_1, y_1)$  and  $B(x_2, y_2)$  we use formula  

$$d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$
 example find distance between points  $A(3, 4)$  and  $B(1, 3)$  solution in this example we have  $x_1 = 3$ ,  $y_1 = 4$ ,  $x_2 = 1$ ,  $y_2 = 3$  so we have

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 the distance between the two points  $(x_1, y_1)$  and  $(x_2, y_2)$  is the midpoint formula this video give the formula for finding the midpoint of two points and do one simple example to find the midpoint show step by step

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web 1 answer write the formula  $M = \left( \frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2} \right)$  substitute 2, 3 for  $x_1, y_1$  and 2, 2 for  $x_2, y_2$   

$$M = \left( \frac{2 + 2}{2}, \frac{3 + 2}{2} \right) = (2, 2.5)$$
 the midpoint of the line segment  $AB$  is  $(2, 2.5)$

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web this method can be used to determine the distance between any two points in a coordinate plane and is summarized in the distance formula  

$$d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$
 the point that is at the same distance from two points  $A(x_1, y_1)$  and  $B(x_2, y_2)$  on a line is called the midpoint you

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web feb 14 2022 use the distance formula to find the distance between the points  $(5, 3)$  and  $(7, 2)$  solution write the distance formula  

$$d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$
 label the points  $x_1 = 5$ ,  $y_1 = 3$ ,  $x_2 = 7$ ,  $y_2 = 2$  and substitute  

$$d = \sqrt{(7 - 5)^2 + (2 - 3)^2} = \sqrt{2^2 + (-1)^2} = \sqrt{4 + 1} = \sqrt{5}$$
 simplify  $d = \sqrt{5}$   $d \approx 2.24$