

Welcome to Special Relativity version 1.0!

This program was created to make all of the calculations pertaining to Einstein's Theory of Special Relativity much easier to understand visually, and much easier to carry out. Although the time values cannot be illustrated very well, everything else seems to be working fine, and I feel that I did a decent job with this software.

I have only been working on it for about 3 days so let me know if there are any problems with it, or if you think I should add anything!

Everything is user-friendly, point and click type of stuff. You can enter the values by either clicking on the picture, or by clicking "Set" next to the box that has the value of what you wish to change. They are the same thing.

You can save and load files, this is pretty easy.

If you want to manually enter data and then load it up later the format is the following:

V	(double)
$U_x$	(double)
$U_x'$	(double)
$X_2$	(double)
$X_2'$	(double)
$T_2'$	(double)
$T_2'$	(double)

If you were to save these values to a text file, and then load that file up in the program, all of the values would be properly assigned.

Various error checks are explained. Although this isn't completely commented, it has a few and most of the program is understandable.

Explanations are provided so you can actually see the equations, and derivations of the Length Contraction and Time Dilation are provided in the Help menu.

Please feel free to email me any comments questions or problems that arise with this software because I would love to hear it.

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Thanks for using, and please vote!

JJG