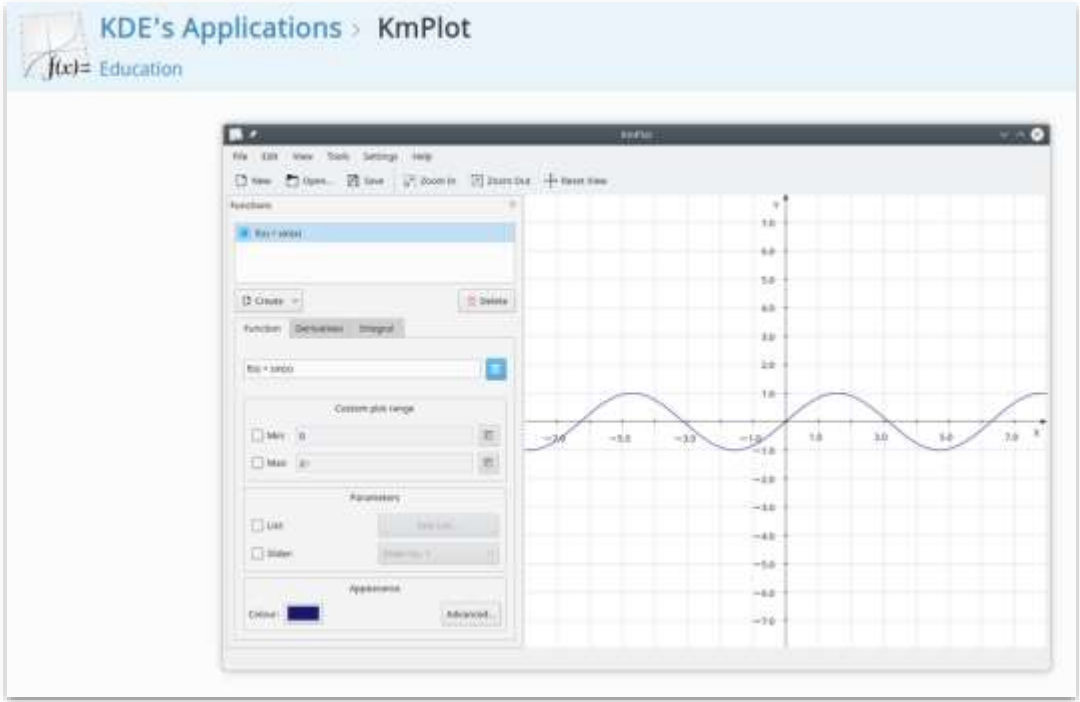
WEBINAR -TOPIC: "Visualising Maths using KmPlot"



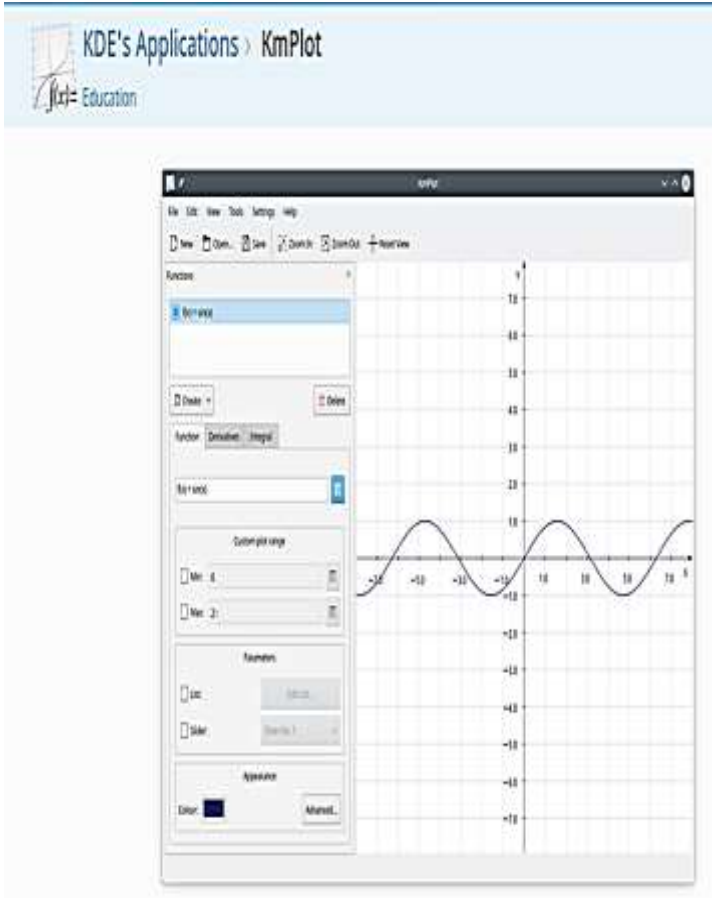
R P BADONI

National ICT Awardee-2012

LECTURER PHYSICS
GIC MISRAS DEHRADUN
UTTARAKHAND

KmPlot

What is KmPlot?
Who can use this Application?
Why it is Useful ?



KmPlot is a mathematical function plotter for the KDE-Desktop.

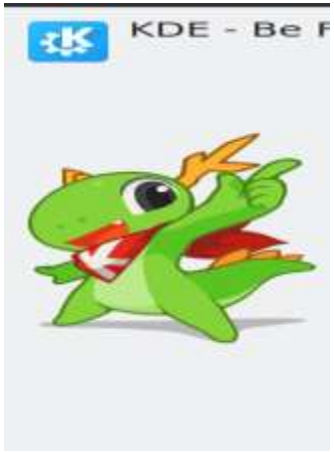
You can plot different functions simultaneously and combine their function to build new functions. KmPlot supports functions with parameters and functions in polar coordinates. Plots may be printed with high precision in correct scale.

All teachers, students from higher and sr secondary or graduate, research scholars or anybody those are related to sciences and mathematics or statistics anywhere in the world. Its very much closed to Geogebra applet or Graph monkey to trace graph for different functions.

Useful and applications

- different plot types (functions, parametric, polar)
- highly configurable visual settings (plot line, axes, grid)
- export to bitmap format (BMP and PNG) and scalable vector graphics (SVG)
- save/load complete session in readable xml format
- trace mode: crosshair following plot, coordinates shown in the status bar
- support zooming
- ability to draw the 1st and 2nd derivative and the integral of a plot function
- support user defined constants and parameter values
- various tools for plot functions: find minimum/maximum point, get y-value and draw the area between the function and the y-axis

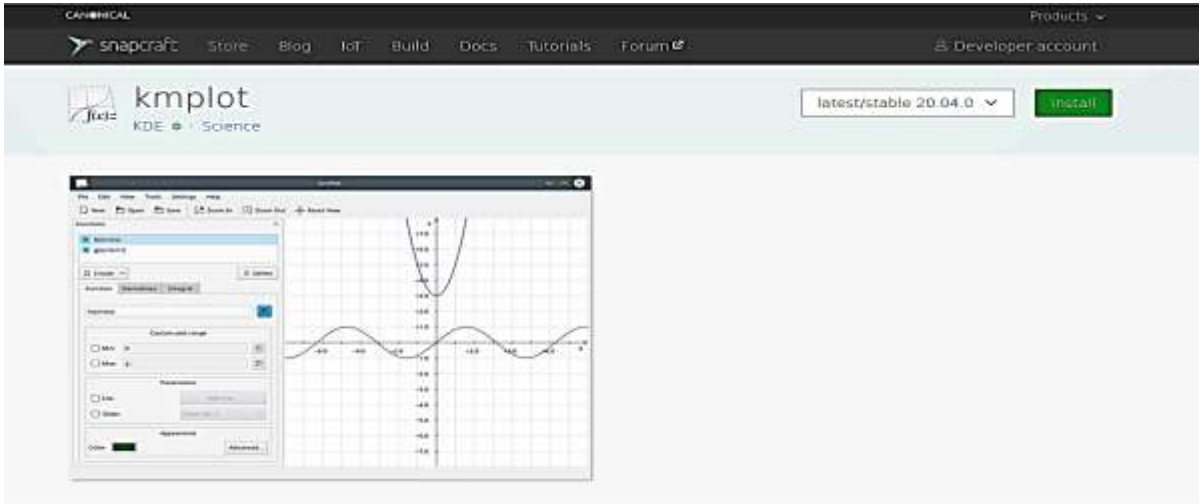
Source:
https://www.kde.org/

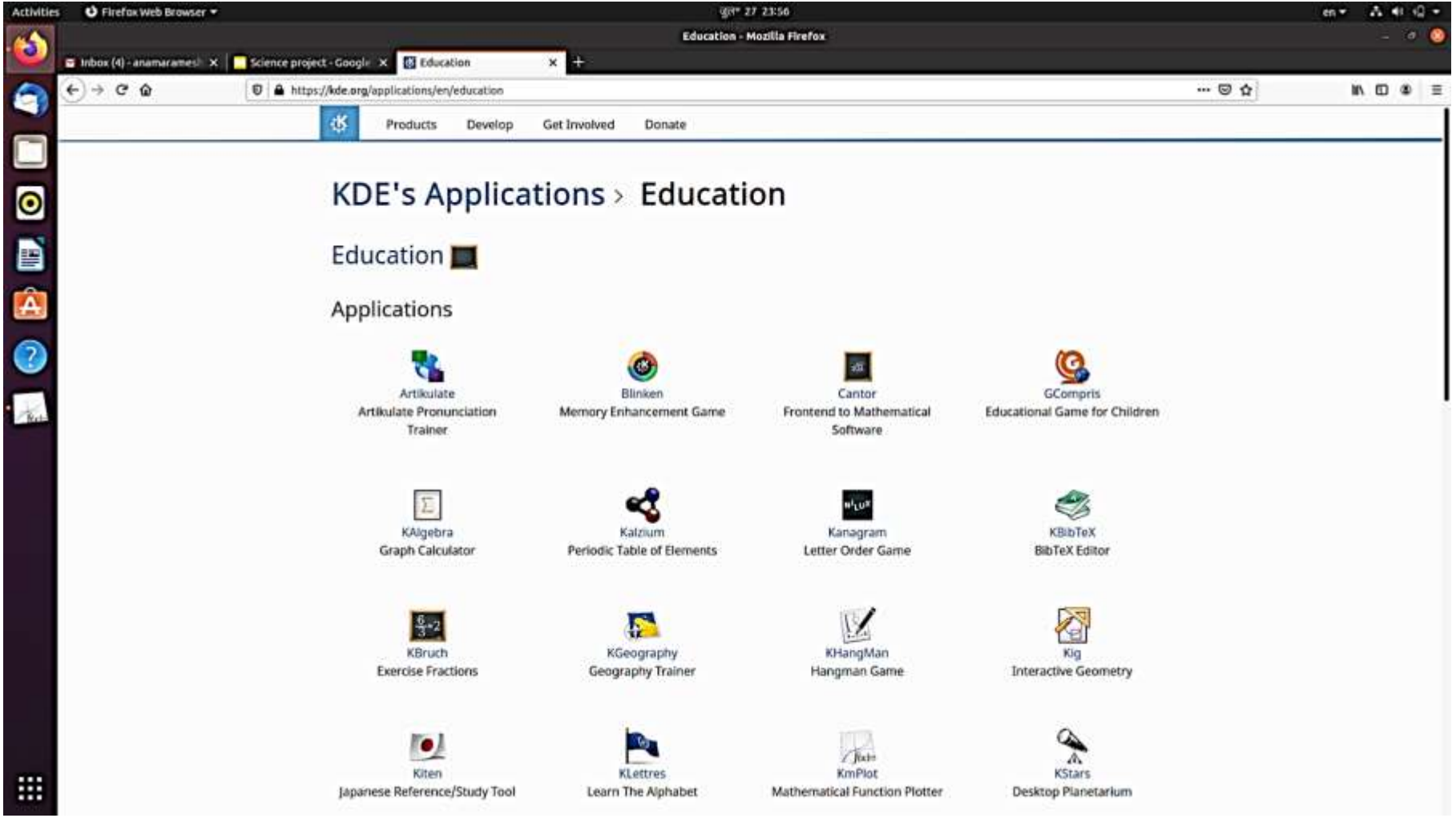


KDE is a world-wide community of software engineers, artists, writers, translators and creators who are committed to Free Software development. KDE produces the Plasma desktop environment, hundreds of applications, and the many software libraries that support them.

KDE is a cooperative enterprise: no single entity controls its direction or products. Instead, we work together to achieve the common goal of building the world's finest Free Software. Everyone is welcome to join and contribute to KDE, including you.

Visit https://www.kde.org/ for more information about the KDE community and the software we produce.




Activities
Firefox Web Browser
Education - Mozilla Firefox
Inbox (4) - anamarames
Science project - Google
Education
https://kde.org/applications/en/education
Products
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Get Involved
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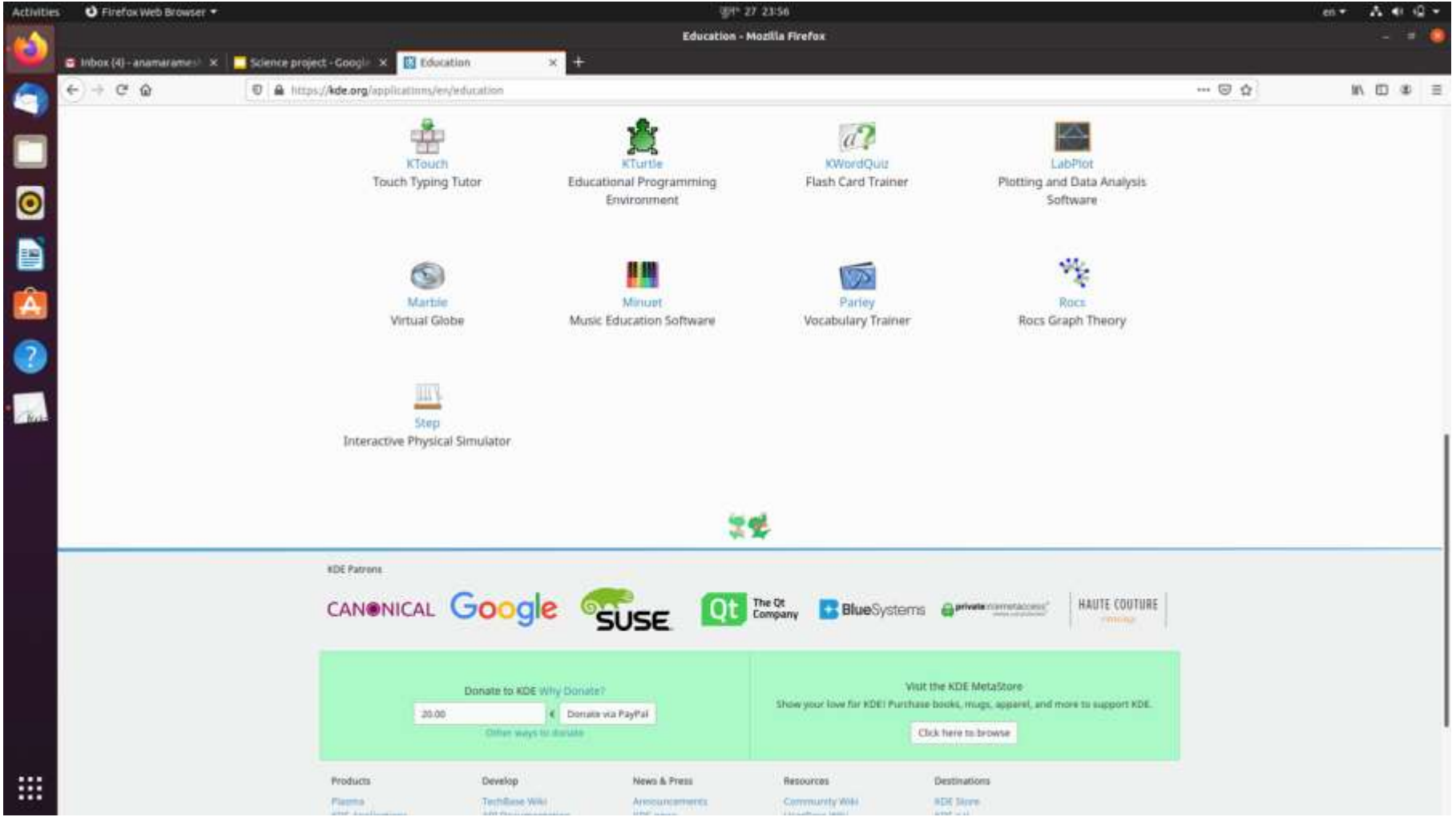
KDE's Applications › Education
Education
Applications
Artikulate
Artikulate Pronunciation Trainer
Blinken
Memory Enhancement Game
Cantor
Frontend to Mathematical Software
GCompris
Educational Game for Children
KAlgebra
Graph Calculator
Kalzium
Periodic Table of Elements
Kanagram
Letter Order Game
KBibTeX
BibTeX Editor
KBruch
Exercise Fractions
KGeography
Geography Trainer
KHangMan
Hangman Game
Kig
Interactive Geometry
Kiten
Japanese Reference/Study Tool
KLettres
Learn The Alphabet
KmPlot
Mathematical Function Plotter
KStars
Desktop Planetarium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Education
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KTouch
Touch Typing Tutor
KTurtle
Educational Programming Environment
KWordQuiz
Flash Card Trainer
LabPlot
Plotting and Data Analysis Software
Marble
Virtual Globe
Minuet
Music Education Software
Parley
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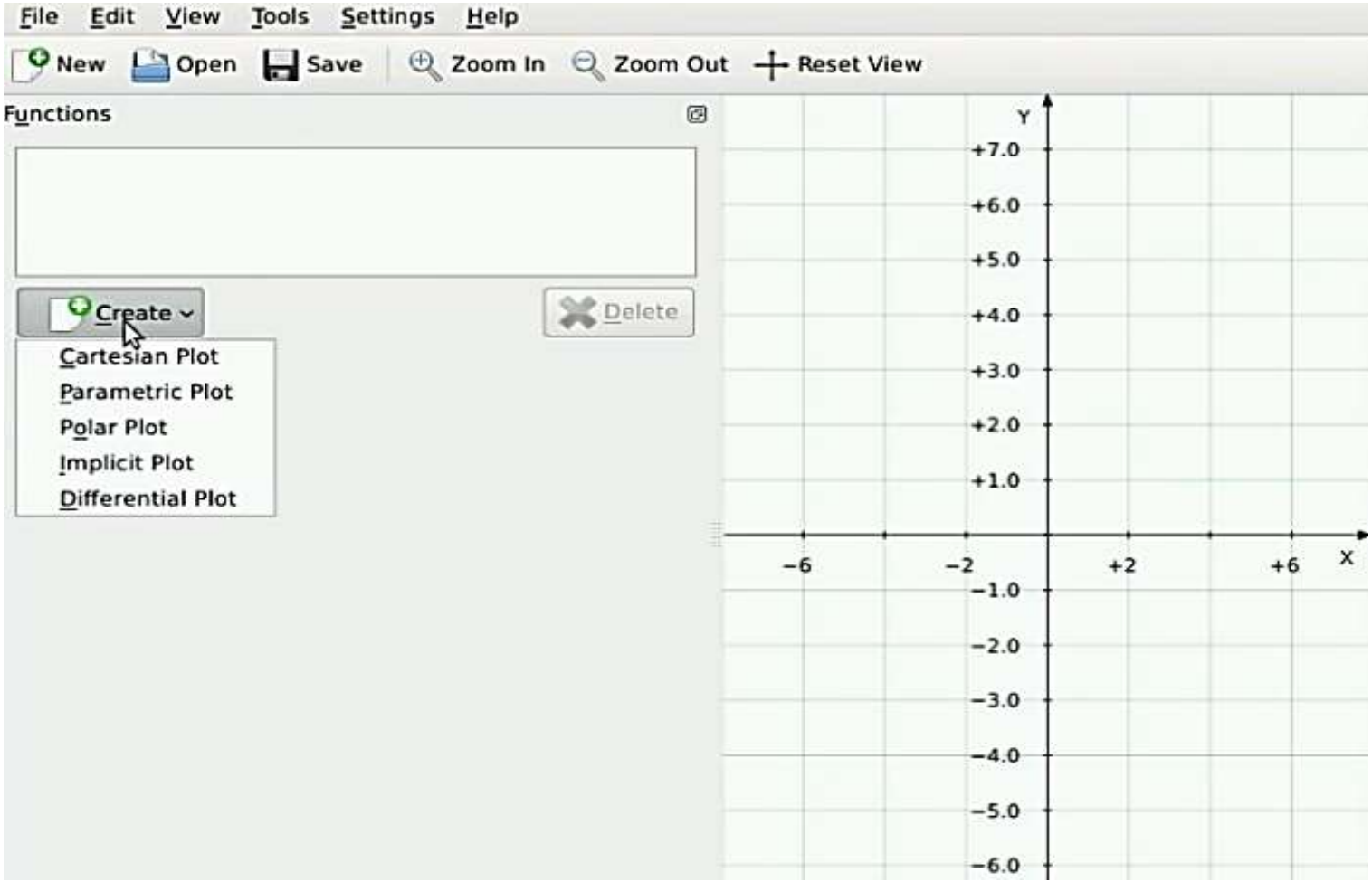
How it can be Used ?

&

Features of KmPlot

https://edu.kde.org/kmplot/

- KmPlot is a program to plot graphs of functions
- their integrals or derivatives.
- The graphs can be colorized and the view is highly configurable, is scalable, and zoomed.
- It can plot graphs of types (cartesian, parametric, polar, implicit, differential)
- It provides simple mathematical tools like for finding maximum/minimum of a function
- Plots can be exported as bitmap format pictures (BMP, PNG)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Implicit Plot
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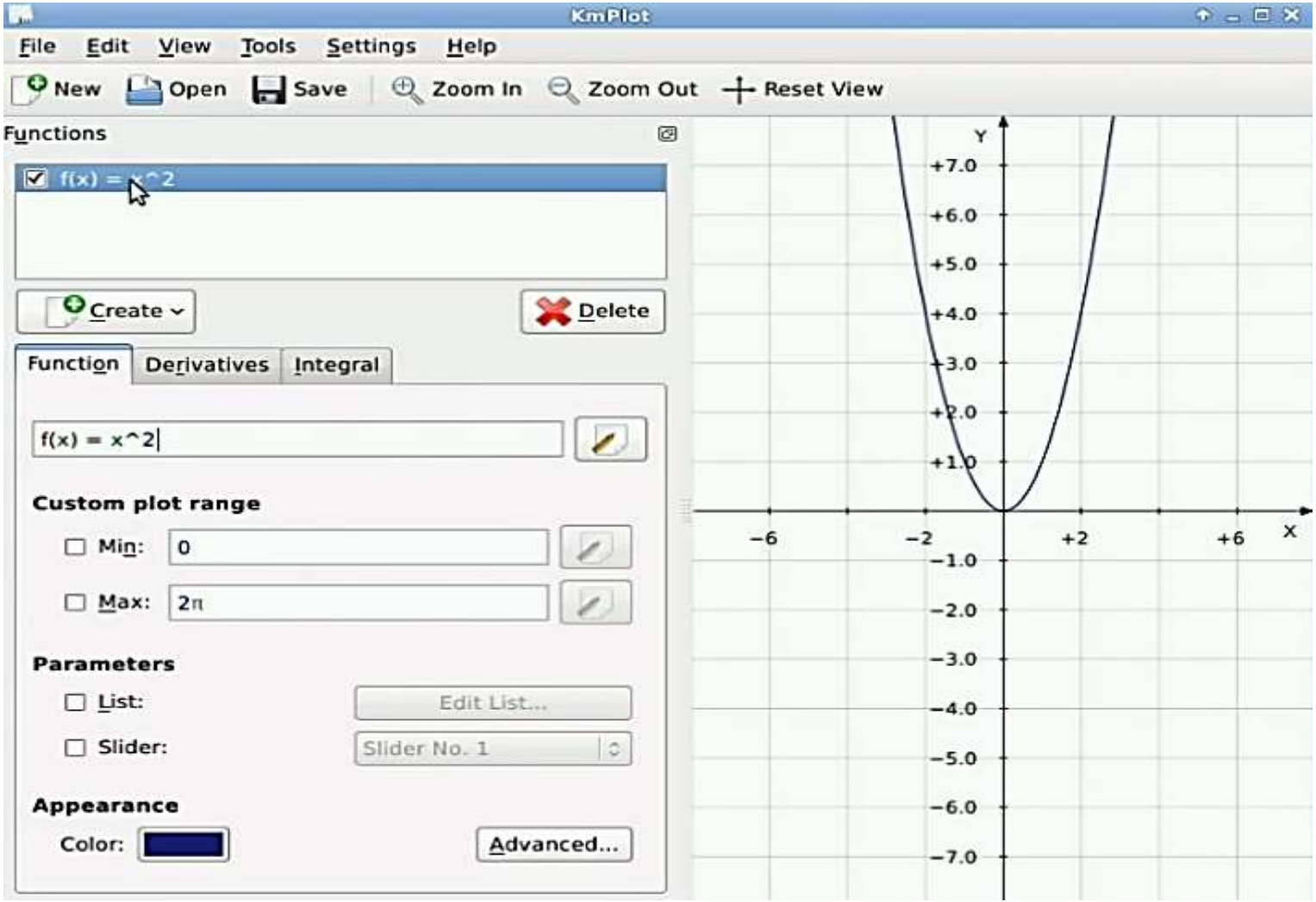
KmPlot
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Functions
f(x) = x^2
Create
Delete
Function
Derivatives
Integral
f(x) = x^2
Custom plot range
Min:
0
Max:
2π
Parameters
List:
Edit List...
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Slider No. 1
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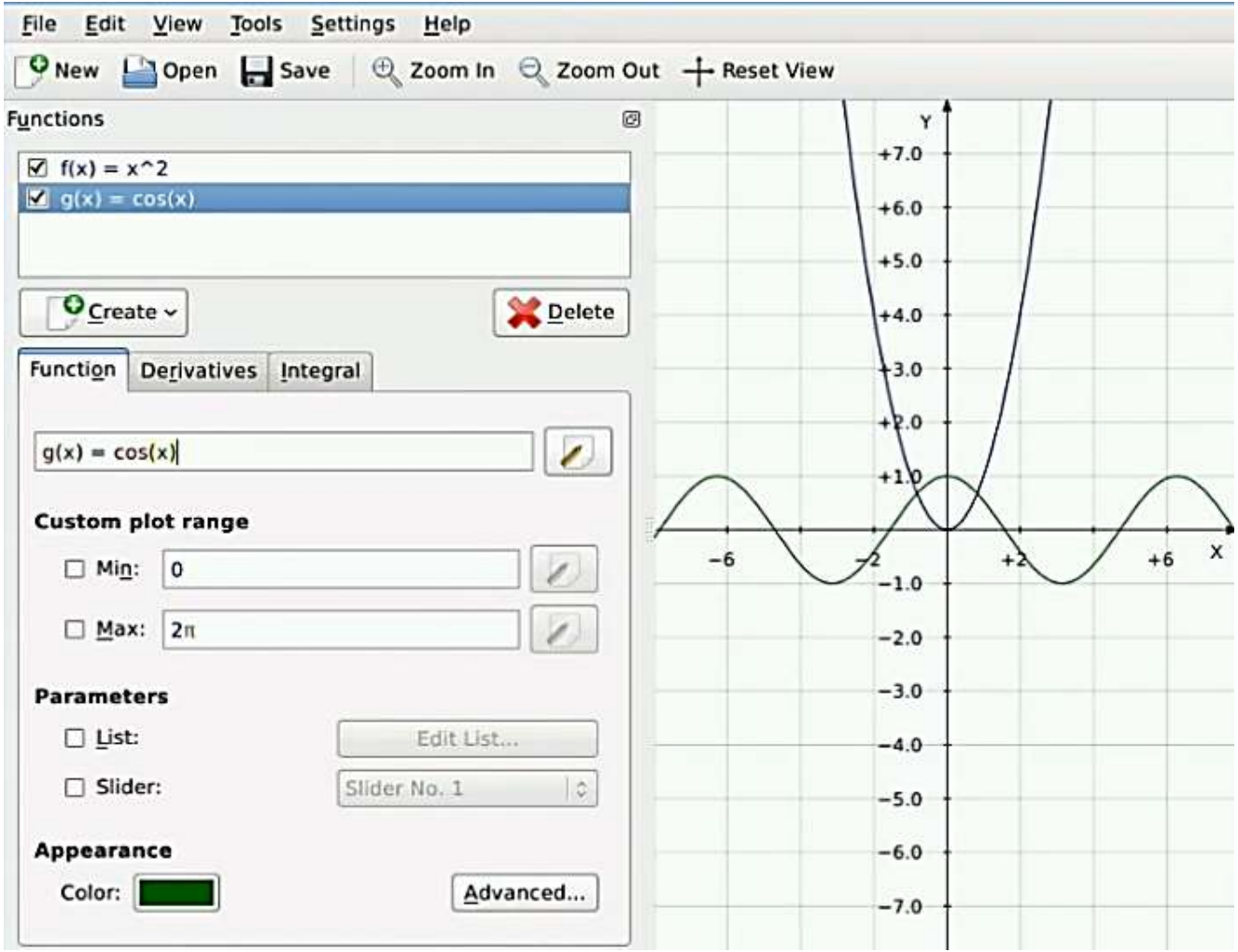
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Functions
f(x) = x^2
g(x) = cos(x)
Create
Delete
Function
Derivatives
Integral
g(x) = cos(x)
Custom plot range
Min:
0
Max:
2π
Parameters
List:
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Slider No. 1
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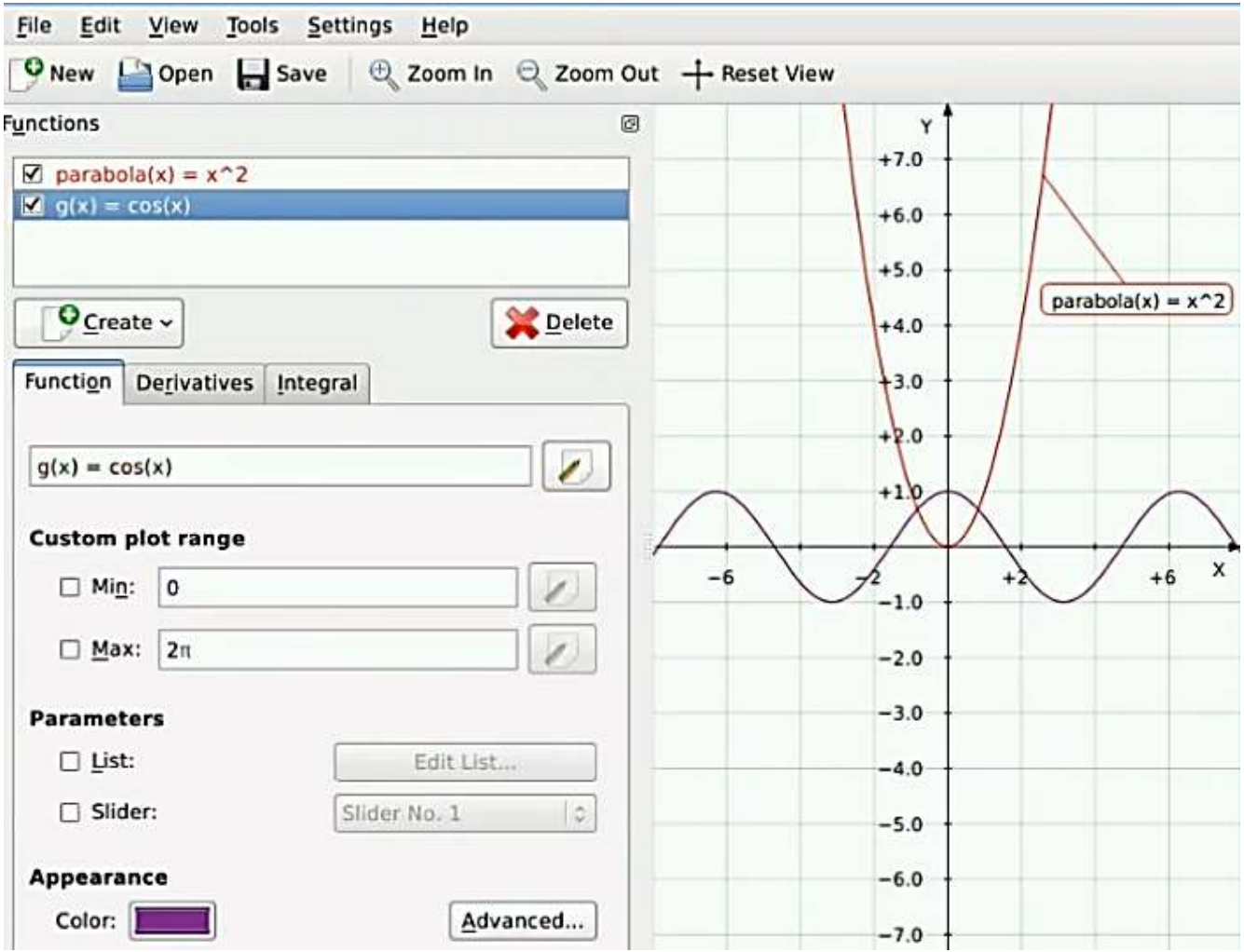
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Functions
parabola(x) = x^2
g(x) = cos(x)
Create
Delete
Function
Derivatives
Integral
g(x) = cos(x)
Custom plot range
Min:
0
Max:
2π
Parameters
List:
Edit List...
Slider:
Slider No. 1
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−4.0
−5.0
−6.0
−7.0
−6
−2
+2
+6
parabola(x) = x^2

Install kmplot on your Linux distribution

Choose your Linux distribution to get detailed installation instructions. If yours is not shown, get more details on the installing snapd documentation.


Arch Linux


CentOS


Debian


elementary OS


Fedora


KDE Neon


Kubuntu


Linux Mint

openSUSE

Red Hat En rise Linux


Ubuntu

Activities Firefox Web Browser

KmPlot - Mozilla Firefox

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https://kde.org/applications/en/education/org.kde.kmplot

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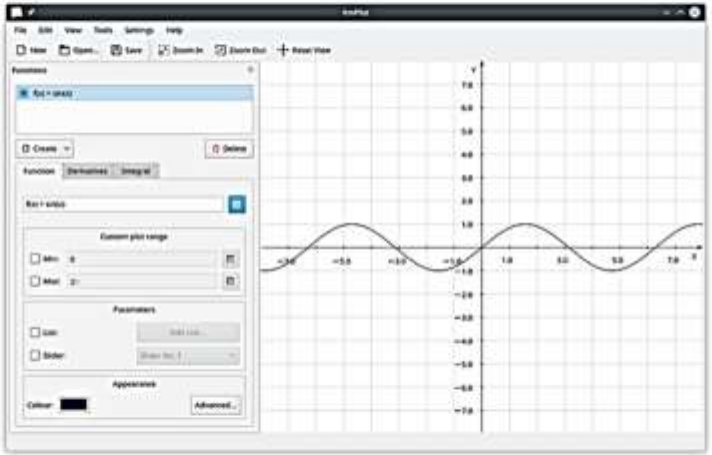
Education

Install on Linux



KmPlot is a program to plot graphs of functions, their integrals or derivatives. The graphs can be colorized and the view is highly configurable, is scalable, and can be zoomed. The program features a powerful mathematical parser, different plot types (cartesian, parametric, polar, implicit, differential), and provides simple mathematical tools like for finding maximum/minimum of a function. Parametrized functions can be visualized by adjusting the variable parameter via a slider. Plots can be exported as bitmap format pictures (BMP, PNG) and can be printed.

Details for KmPlot

Project website

License

GPL-2.0+

Get Help

KmPlot Handbook

KDE Community Forum

Installation
&
features of
KmPlot

Let’s try here

Hands on session