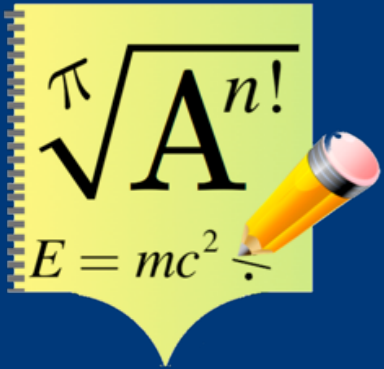


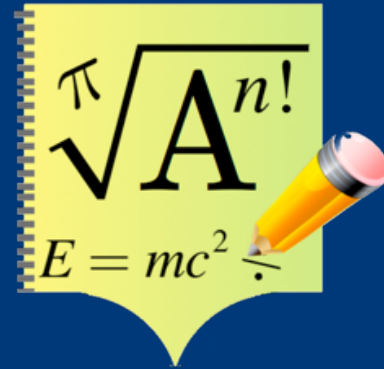
appleSTEMs

Science Technology Engineering Math
Software for iOS and OSX

Warren W. James
January 4, 2016

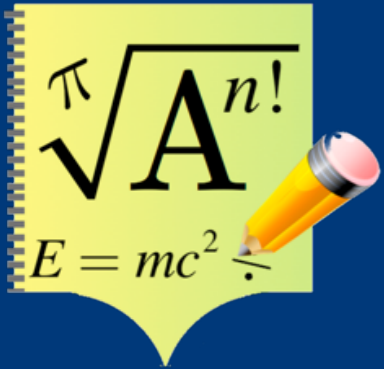


Expressions in Bar

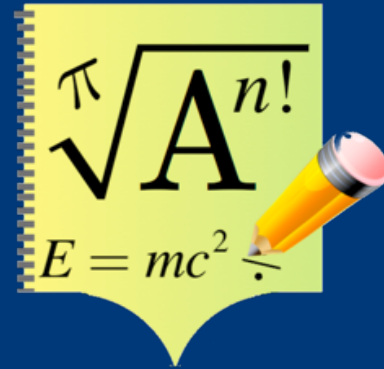


- A tool for evaluating mathematical expressions that lives in the Menubar of your Mac
- Can do numerical evaluations
- Can also do symbolic math
- Equations can be output in a form that can be pasted into text files or presentations

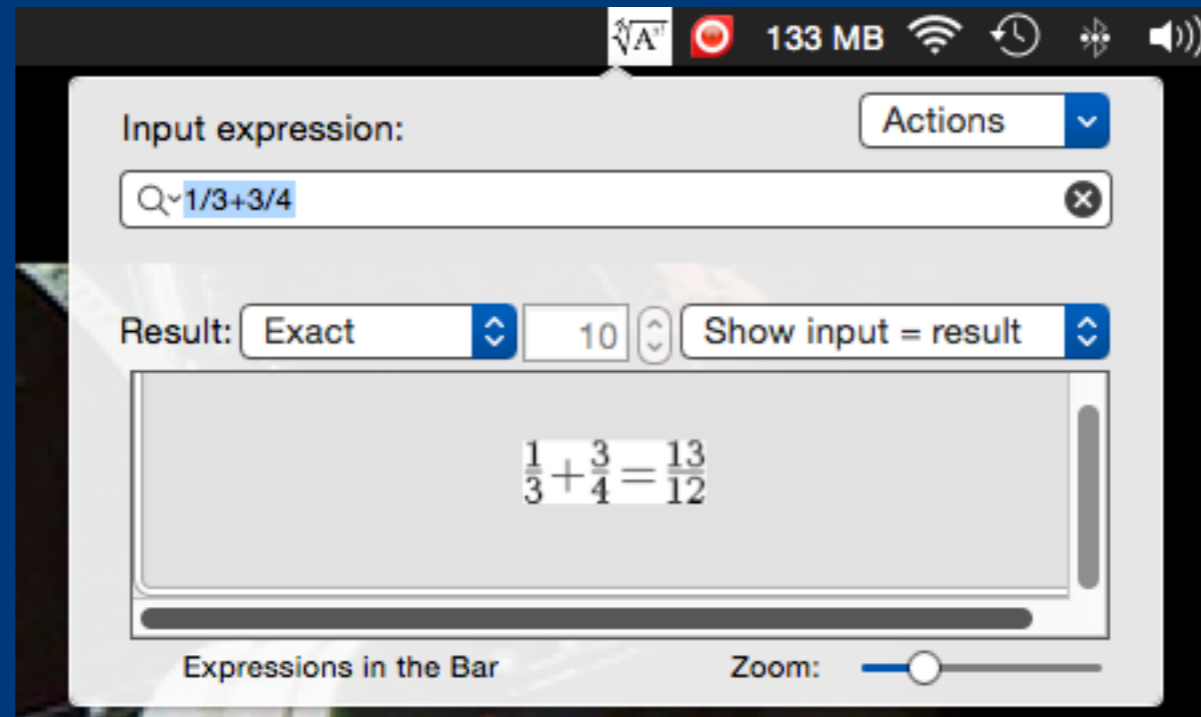
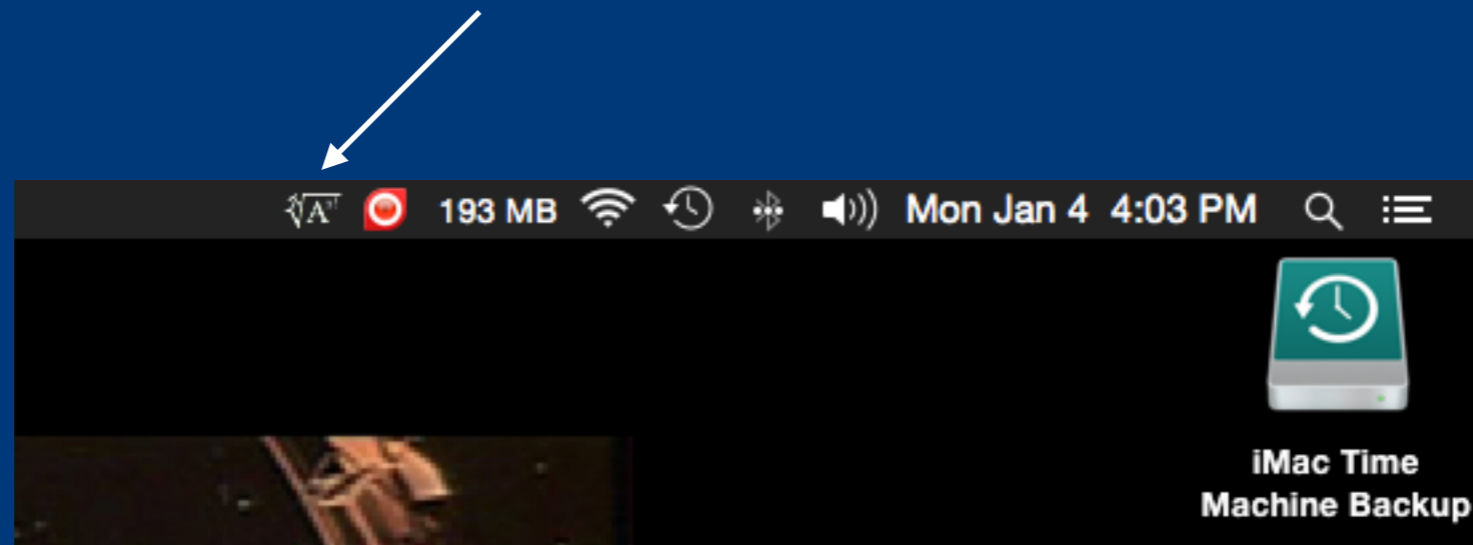
- OS X 10.7 and later
- \$3.99

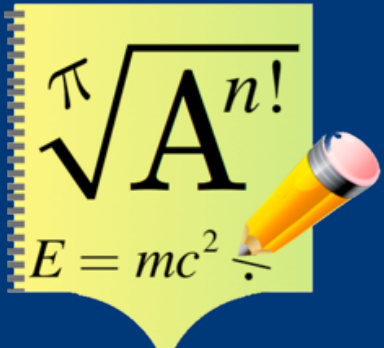


ExpressionsinBar



ExpressionsinBar is just a click away in the Menubar of your Mac

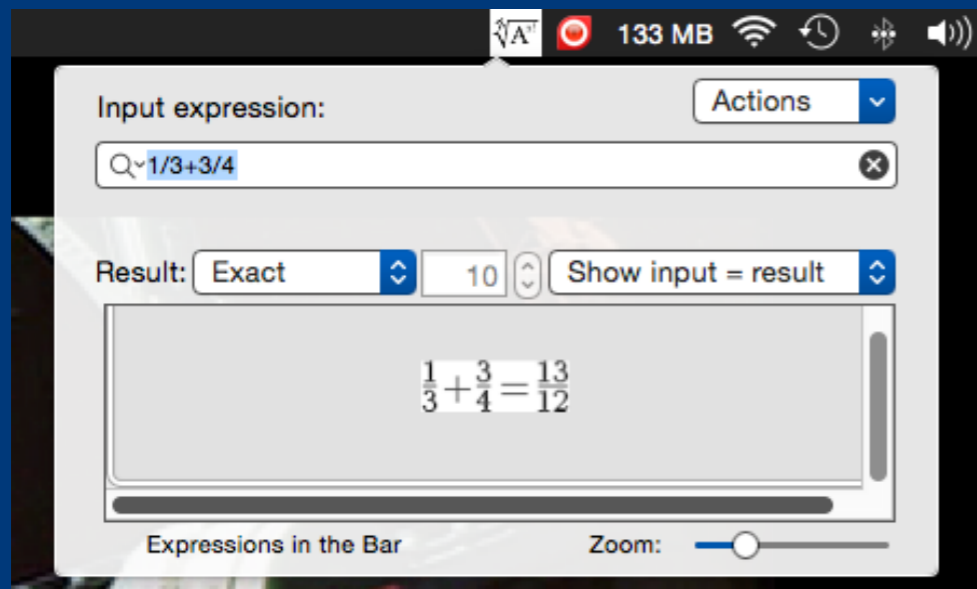




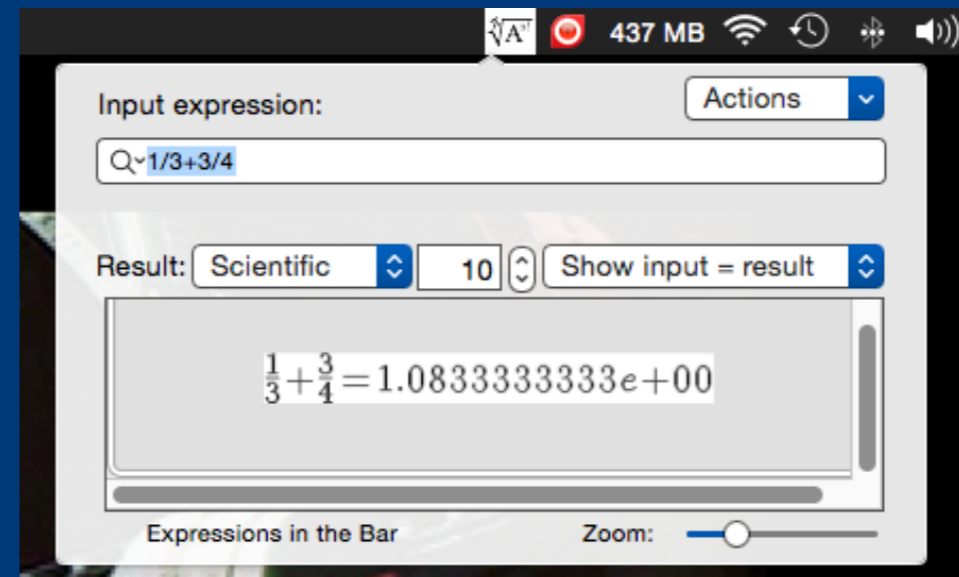
Expressions in Bar



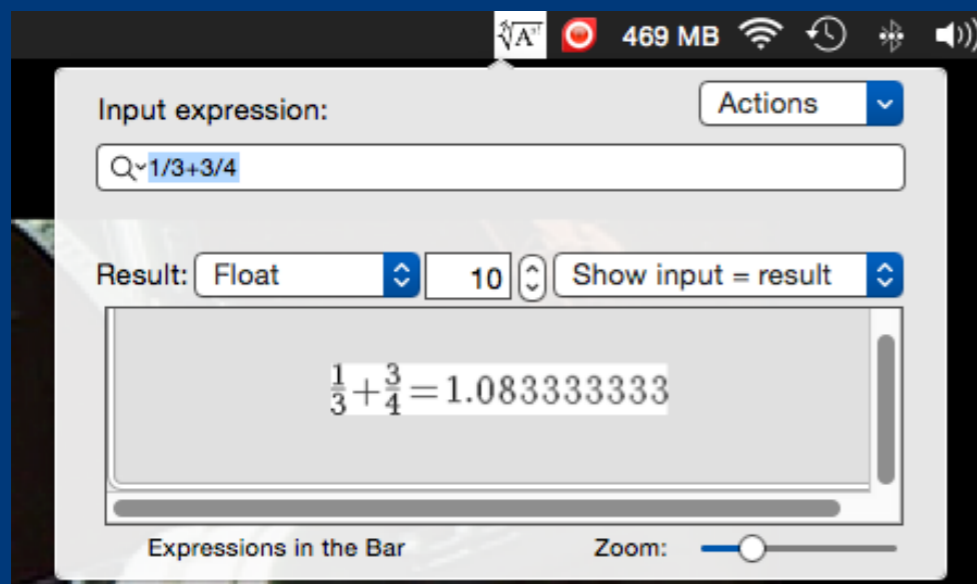
Numerical results are available in many formats



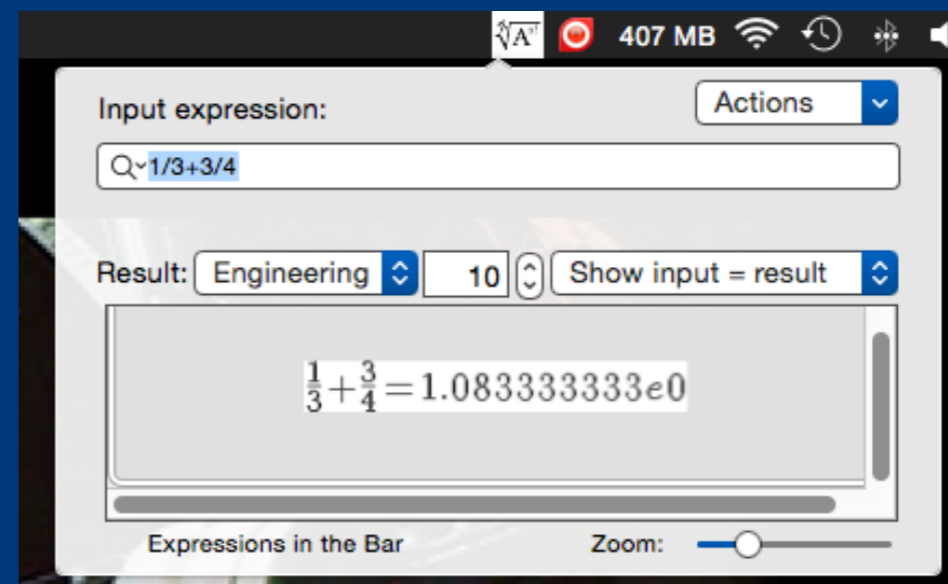
Exact preserves fractions



Scientific uses scientific notation



Float uses a decimal place and user selected number of digits



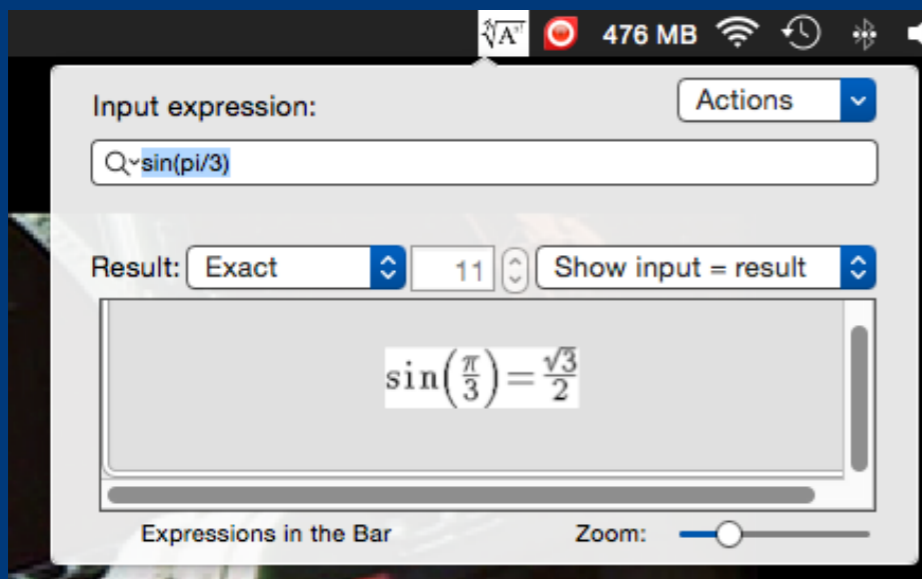
Engineering restricts the exponent to multiples of 3



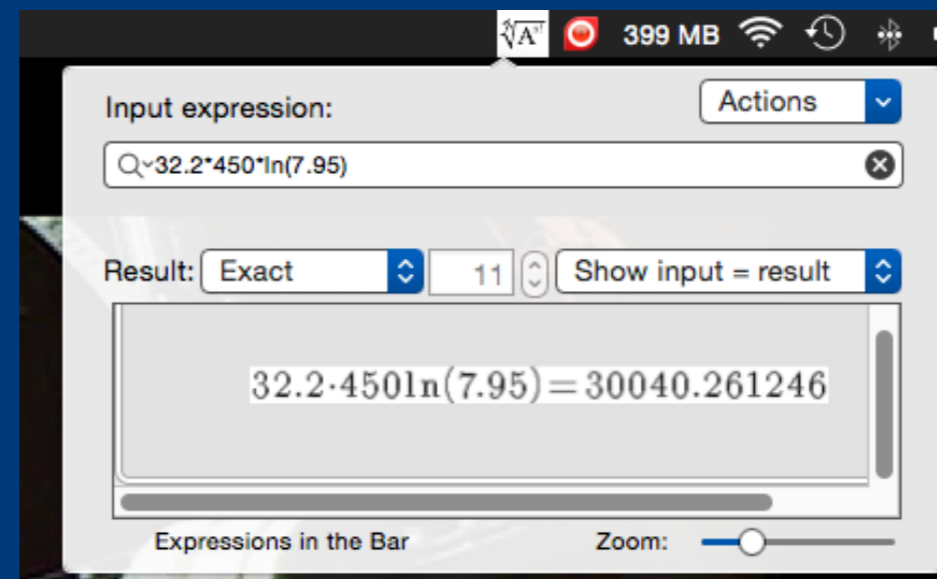
Expressions in Bar



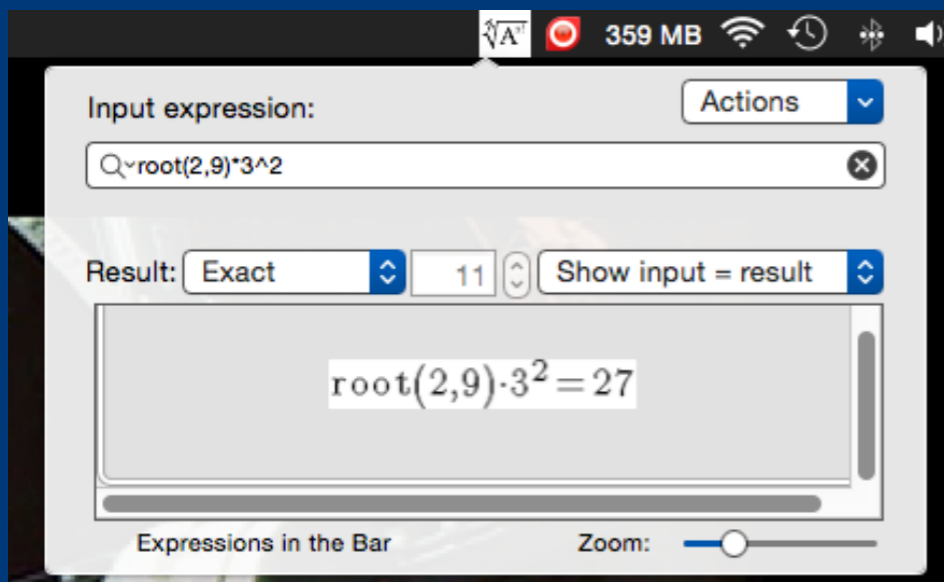
Advanced math functions are available



Trig functions and their inverses



Logs (natural and base 10) and exponentials



Powers and roots

And many more math functions



ExpressionsinBar



The Actions dropdown list gives access to a wide range of functions and tools

The screenshot shows the ExpressionsinBar application interface. The top bar displays system information: 373 MB, Wi-Fi, Bluetooth, and the date/time: Mon Jan 4 5:20 PM. The main window has an "Input expression:" field containing `integrate(3x^2,x,0,2)`. Below it, the "Result:" section shows "Exact" and "11", with a "Show input" button. The result is displayed as a mathematical expression: $\int_0^2 3x^2 dx = 8$. The "Actions" dropdown menu is open, listing various tools and functions. The "Calculus" option is highlighted. A separate list of functions is shown below the menu.

Input expression: `integrate(3x^2,x,0,2)`

Result: Exact 11 Show input

$\int_0^2 3x^2 dx = 8$

Expressions in the Bar Zoom:

Actions

- Copy Result to Clipboard ⌘C
- Copy Result as LaTeX source to Clipboard
- Constants and greek letters
- Integers
- Fractions
- Complex
- Functions
- 1d-statistics
- 2d-statistics
- Algebraic transformations
- Polynomials
- Vectors
- Matrices
- Calculus**
- Equations
- Differential equations
- Expressions
- About ExpressionsinBar...
- Online Help...
- Rate App...
- Quit ExpressionsinBar ⌘Q

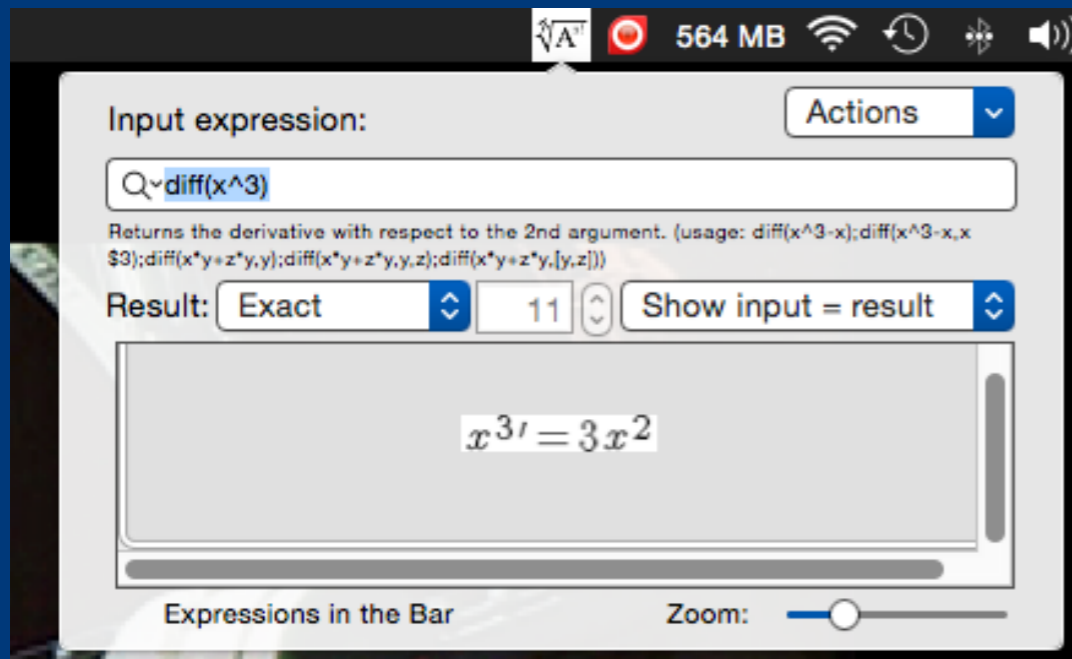
sum(<expr>,<var>,<min>,<max>)
limit(<expr>,<var>,<a>)
series(<expr>,<var=a>,<n>)
taylor(<expr>,<a>)
diff(<expr>)
grad(<expr>,<list>)
divergence(<list>,<list>)
curl(<list>,<list>)
laplacian(<expr>,<list>)
hessian(<expr>,<list>)
integrate(<expr>,<var>)
integrate(<expr>,<var>,<a>,)
romberg(<expr>,<var>,<a>,)



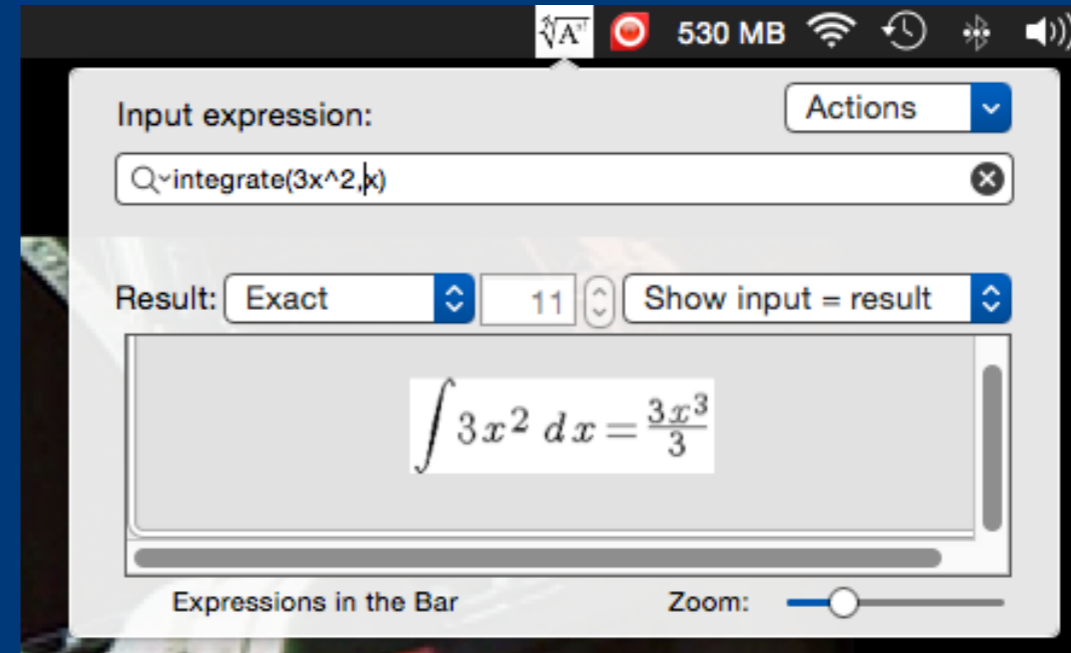
Expressions in Bar



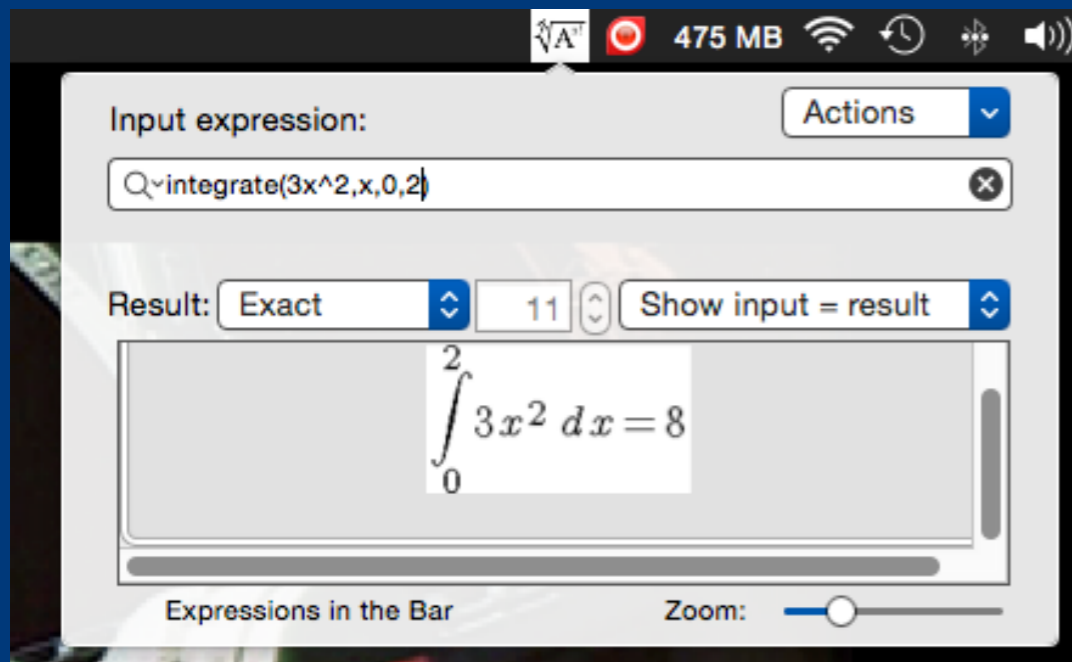
Symbolic calculus is a mouse click away



Differentiation

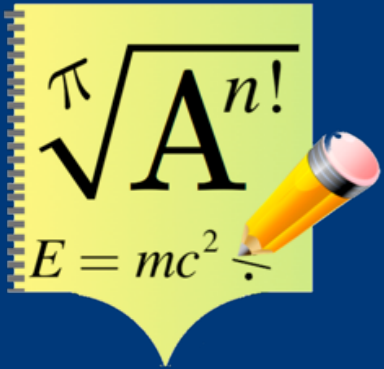


Indefinite integrals

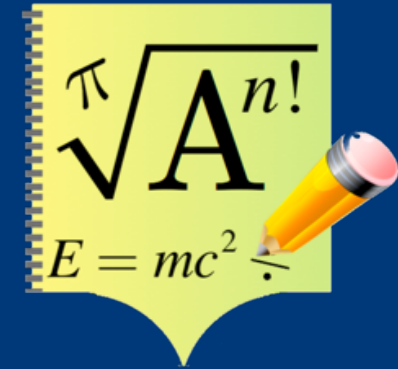


Definite integrals

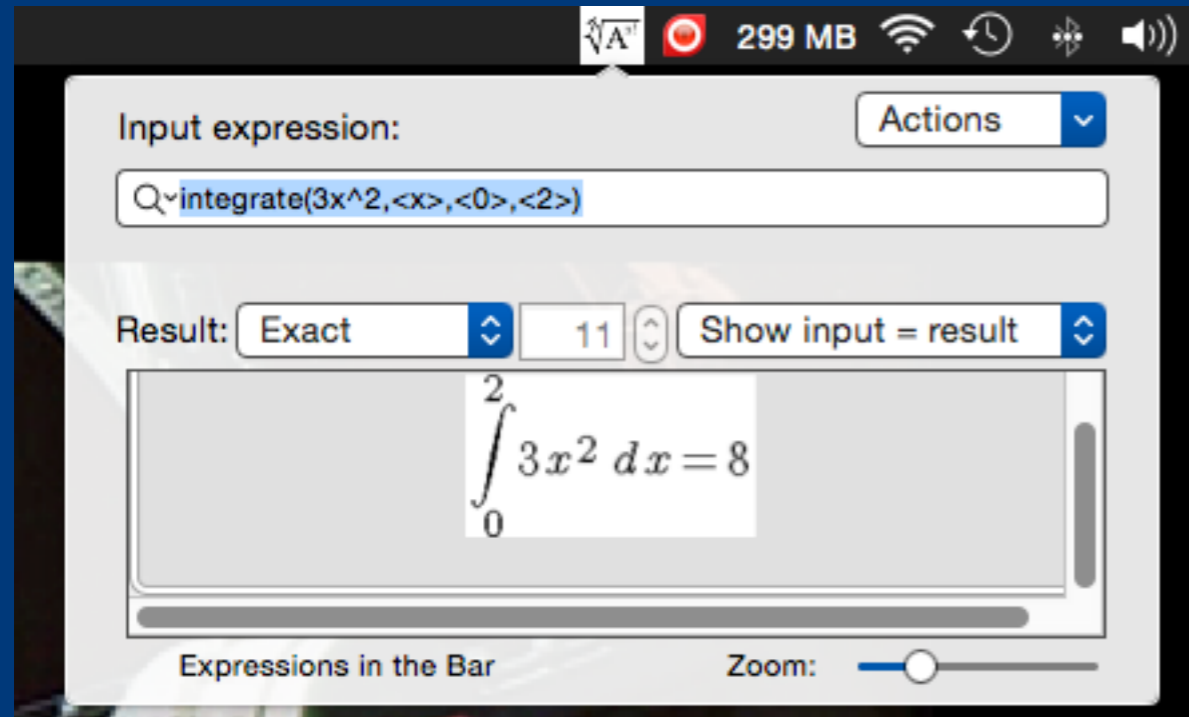
- Complex integrals can be evaluated
- Multi-dimensional calculus is also available
- Other advanced math includes...
 - vectors
 - matrices
 - complex numbers
 - statistics
 - differential equations
 - and much more



Expressions in Bar



Equations and results can be pasted into documents and presentations



$$\int_0^2 3x^2 dx = 8$$

Put the math in your presentation

Do the math...

appleSTEMs

Science Technology Engineering Math
Software for iOS and OSX

If you have a favorite STEM app then tell me about it via email

wwjames@earthlink.net