

FUNdamental:

FUNdamental is a mathematics application developed for the Integrated First-Year Curriculum in Science, Engineering, and Mathematics under NeXTStep 2.1 with the purpose to encourage the user to discover a very important relationship between a function $f(x)$ and $F(t)$, the integral of $f(x)$ from $x = a$ to $x = t$. This relationship is one from the Fundamental Theorem of Calculus.

FUNdamental is used to provide practice in graphically estimating a function from its integral. Users have eight predefined functions to choose from and tools that allow them to analyze the integral to make an estimate at a particular x -value.

FUNdamental has two major features:

1. The user can try to determine the function by analyzing its integral.
2. The user can see a demonstration of determining the function from its integral.

For information on getting started, open *Main Window* in the *Documentation (Help)* browser.

Currently authored by:

David Holscher
Class of 1994

holschdm@nextwork.rose-hulman.edu

Rose-Hulman Institute of Technology