Worked Example: Coordinate Conversions

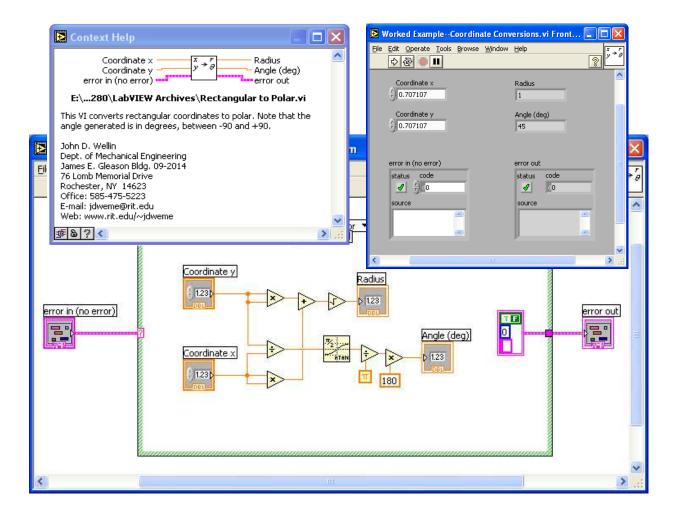
Rectangular coordinates (x,y) are converted to polar coordinates (r,θ) according to the geometric relations:

$$r = \sqrt{x^2 + y^2}$$

$$\theta = A \tan(y/x)$$

Create a subVI which performs the conversion. As general subVI characteristics, include the following:

- Appropriate terminals and a meaningful icon.
- Documentation of the basic features.
- Appropriate initial values in all controls and indicators.
- Error handling as applicable.



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