

Check for Mistakes in this Word Problem: scale-image

Directions: Write a function which takes an image and a string, representing what to scale the image by. The function should return a smaller image if the string is 'smaller' and a bigger image if the string is 'bigger'.

Contract and Purpose Statement

Every contract has three parts...

<code>;</code>	<code>scale-image</code>	<code>:</code>	<code>image</code>	<code>string</code>	<code>→</code>	<code>image</code>
	<i>function name</i>			<i>domain</i>		<i>range</i>

what does the function do?

Examples

Write some examples, then circle and label what changes...

(EXAMPLE(scale-image	(circle 5 "solid" "red") "bigger")	(circle 10 "solid" "red")
	<i>function name</i>	<i>input(s)</i>	<i>what the function produces</i>

(EXAMPLE(scale-triangle (triangle 20 "solid" "blue") "smaller")
function name *input(s)*
(triangle 10 "solid" "blue"))
what the function produces

Definition

Write the definition, given variable names to all your input values...

```
(define( scale-image original-image scale-factor )
  function name variables

  (cond
    [(string=? scale-factor "bigger") (scale 2 original-image)]

    [(string=? scale-factor "smaller") (scale 0.5 original-image)]

    [else original-image]))
```