

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...

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scale-image: image string → image

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Make the image bigger or smaller, depending on the given string

Examples

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

(EXAMPLE (

scale-image(circle 5 "solid" "red") "bigger")(circle 10 "solid" "red")

(EXAMPLE (

scale-triangle(triangle 20 "solid" "blue") "smaller")(triangle 10 "solid" "blue")

Definition

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

(define (

scale-image original-image scale-factor)(

cond

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

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

else: original-image