# The Design Recipe

Referenced from lesson [Histograms](https://www.bootstrapworld.org/materials/spring2021/en-us/courses/data-science/lessons/histograms/index.shtml) (Spring, 2021)

For the word problems below, assume you have animalA and animalB defined in your code.

**Directions**: Define a function called kilos, which consumes a Row of the animals table and divides the pounds column by 2.2 to *compute* the animal’s weight in kilograms.

| **Contract and Purpose Statement** |
| --- |

*Every contract has three parts…​*

# \_\_\_\_\_\_\_\_\_\_::(r :: Row)->\_\_\_\_\_\_\_\_\_\_\_\_

# \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

| **Examples** |
| --- |

*Write some examples, then circle and label what changes…​*

examples:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_) is\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_) is\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

end

| **Definition** |
| --- |

*Write the definition, giving variable names to all your input values…​*

fun \_\_\_\_\_\_\_\_\_\_(\_\_):

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

end

**Directions**: Define a function called smart-dot, which consumes a Row of the animals table and *computes* the image of a solid red circle using the animal’s pounds as the radius.

| **Contract and Purpose Statement** |
| --- |

*Every contract has three parts…​*

# smart-dot::\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_->Image

# Consumes an animal, and computes a solid red circle using the weight in pounds as the radius

| **Examples** |
| --- |

*Write some examples, then circle and label what changes…​*

examples:

\_\_\_\_smart-dot ("animalA") is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_) is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

end

| **Definition** |
| --- |

*Write the definition, giving variable names to all your input values…​*

fun \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_(\_\_):

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

end

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