

Contracts

Contracts tell us how to use a function. For example: `num-min :: (a :: Number, b :: Number) -> Number` tells us that the name of the function is `num-min`, it takes two inputs (both Numbers), and it evaluates to a `Number`. From the contract, we know `num-min(4, 6)` will evaluate to a `Number`. Use the blank line under each contract for notes or sample code for that function!

Name		Domain		Range
<code>box-plot</code>	<code>::</code>	<code>(t :: Table, col :: String)</code>	<code>-></code>	<code>Image</code>
<code>box-plot(animals-table, "age")</code>				
<code>modified-box-plot</code>	<code>::</code>	<code>(t :: Table, col :: String)</code>	<code>-></code>	<code>Image</code>
<code>modified-box-plot(animals-table, "age")</code>				
<code>scatter-plot</code>	<code>::</code>	<code>(t :: Table, labels :: String, xs :: String, ys :: String)</code>	<code>-></code>	<code>Image</code>
<code>scatter-plot(animals-table, "species", "pounds", "weeks")</code>				
<code>image-scatter-plot</code>	<code>::</code>	<code>(t :: Table, xs :: String, ys :: String, f :: (Row -> Image))</code>	<code>-></code>	<code>Image</code>
<code>image-scatter-plot(animals-table, "pounds", "weeks", animal-img)</code>				
<code>r-value</code>	<code>::</code>	<code>(t :: Table, xs :: String, ys :: String)</code>	<code>-></code>	<code>Number</code>
<code>r-value(animals-table, "pounds", "weeks")</code>				
<code>lr-plot</code>	<code>::</code>	<code>(t :: Table, labels :: String, xs :: String, ys :: String)</code>	<code>-></code>	<code>Image</code>
<code>lr-plot(animals-table, "species", "pounds", "weeks")</code>				
<code>random-rows</code>	<code>::</code>	<code>(t :: Table, num-rows :: Number)</code>	<code>-></code>	<code>Table</code>
<code>random-rows(animals-table, 5)</code>				
<code><Table>.row-n</code>	<code>::</code>	<code>(n :: Number)</code>	<code>-></code>	<code>Row</code>
<code>animals-table.row-n(5)</code>				
<code><Table>.order-by</code>	<code>::</code>	<code>(col :: String, increasing :: Boolean)</code>	<code>-></code>	<code>Table</code>
<code>animals-table.order-by("species", true)</code>				
<code><Table>.filter</code>	<code>::</code>	<code>(test :: (Row -> Boolean))</code>	<code>-></code>	<code>Table</code>
<code>animal-table.filter(is-cat)</code>				
<code><Table>.build-column</code>	<code>::</code>	<code>(col :: String, builder :: (Row -> Any))</code>	<code>-></code>	<code>Table</code>
<code>animals-table.build-column("sticker", label)</code>				
<code>bar-chart-summarized</code>	<code>::</code>	<code>(t :: Table, labels :: String, values :: String)</code>	<code>-></code>	<code>Image</code>
<code>bar-chart-summarized(animals-table, "species", "pounds")</code>				
<code>pie-chart-summarized</code>	<code>::</code>	<code>(t :: Table, labels :: String, values :: String)</code>	<code>-></code>	<code>Image</code>
<code>pie-chart-summarized(animals-table, "age", "pounds")</code>				