## **Build Attribute**

Make sure you're logged into the <u>Animals Starter File</u> in CODAP. Select the Plugins icon, then choose Transformers.

### Create, Apply, and Save a Build Attribute Transformer (Step by Step)

Transformers	1) Choose Build Attribute from the drop-down menu (Box 1).
Transformer ? >	2) At the shelter, animals are considered heavy when they weigh more than 40 pounds. Enter build-is-heavy as the Transformer Name (Box 2). What does this name tell you
Transformer Name       e.g., build-age-in-ten	about the Transformer we are creating?
Dataset to Add Attribute to Select a Dataset 3  Name of New Attribute 4	3) Select the dataset you'd like to transform (Box 3).
Collection to Add to Select a collection - 5	4) Let's name our new attribute Heavy (Box 4). What happened to the starred text (left) when you named the attribute?
Formula for New Attribute Values	
Contract: $Row \rightarrow Any \sim 6$ Purpose Statement	
What does the expression do to each row?	5) Ensure that the collection you are adding to is "cases" (Box 5).
For each row, construct the attribute with the result of the expression:	6) A domain is provided (row), but not a range. What is the desired output for
e.g., Age + 10 8	build-is-heavy?
Apply Transformer Save Transformer	7) Write a purpose statement (Box 7). What do we want the expression to do?
	8) Enter Pounds > 40 as the expression (Box 8).
	9) Apply the Transformer. To define the Transformer for future use, select Save.

#### More Building (On Your Own)

Create a Transformer called build-updated-age, which will give the animals' ages one year from today.

10) How many animals are 9 years-old one year from today?

#### Create a Transformer that builds a column with the number of letters in each animal's name.

11) What did you name your Transformer and the new attribute?

12) How many animals have exactly 8 letters in their names? (Feeling adventurous? Try using the Count Transformer here!)

# Create a Transformer to build a column that returns true if the number of letters in an animal's name (the column you created in Question 11!) is less than or equal to five.

*Note*: Does your new attribute name have a space or a hyphen? If so, CODAP will produce an error when you apply your Transformer. Either change the name of the attribute or wrap your entire attribute name inside tick marks (`) when you type in your expression. (The tick mark key is in the upper left-hand corner of your keyboard.)

13) What expression will you use?
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14) Which dataset will you need to apply this Transformer to? Why?	
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