

Data Logging Example

NXT-G Programming

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Logging Variables or More than 4 Sensors

Method shown developed from Terry Griffin's book "The Art of Lego Mindstorms NXT-G Programming"

Not So Automatic Data Logging

Limitations on data logging...

- No way to automatically log variable values
- Not all sensors vendors supply data logging capabilities
- Log only four sensors

Use Variables

See Data Collecting MyBlocks

`data_logging_myblocks.rbtX`

3

Variables

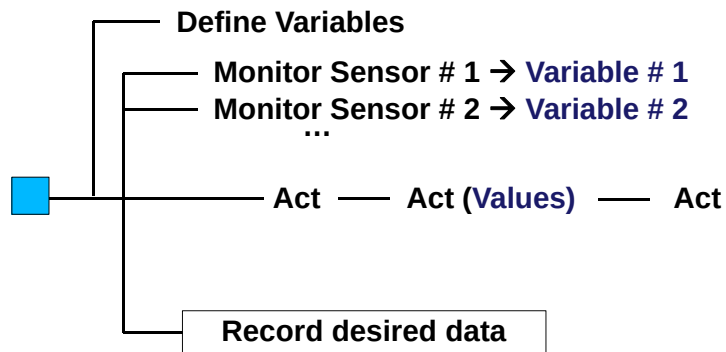
Much of the programming power comes from the ability to

- read values
- store values,
- change values, and
- act based on values.

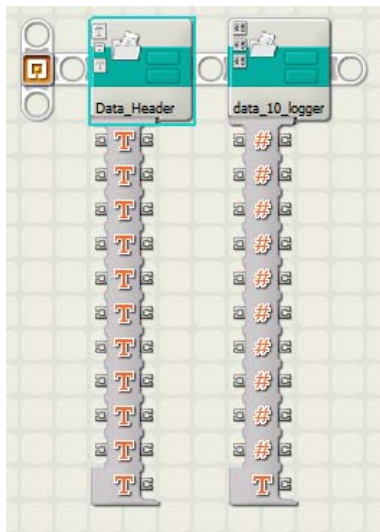
Three types:

- Number – How much?
- Text – Say What?
- Logical – True or False?

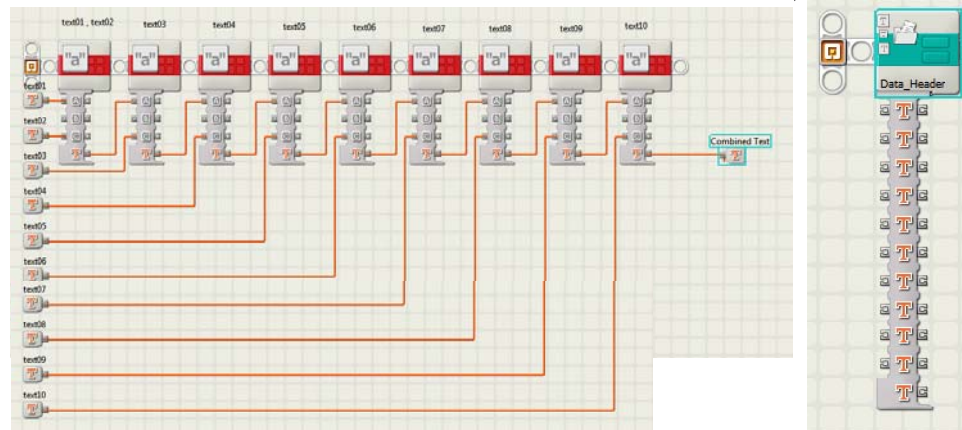
Consider This Program Architecture



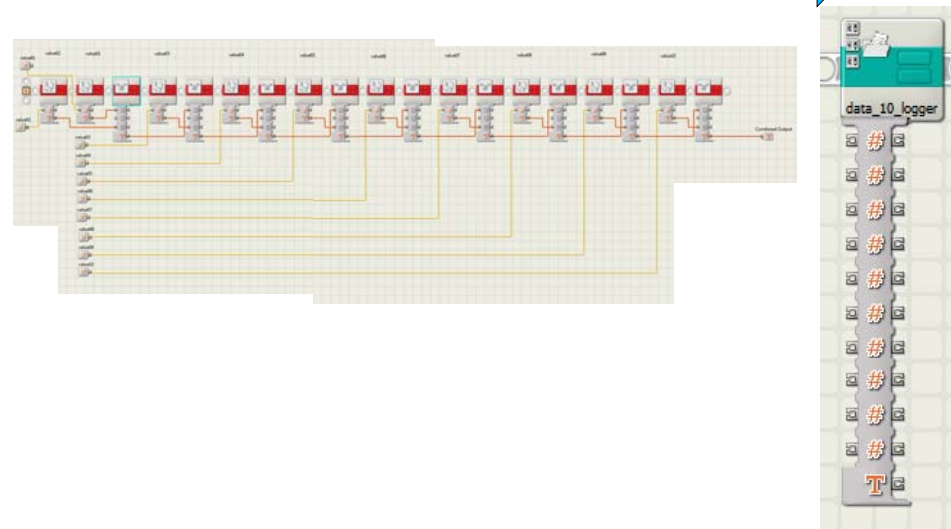
Two myBlocks for Data Logging



Data File Header



Data Consolidation



Sample Data Logging Program

