



GRAPHICAL CREATION AND MANIPULATION OF SUBROUTINES IN VISUAL PROGRAMMING

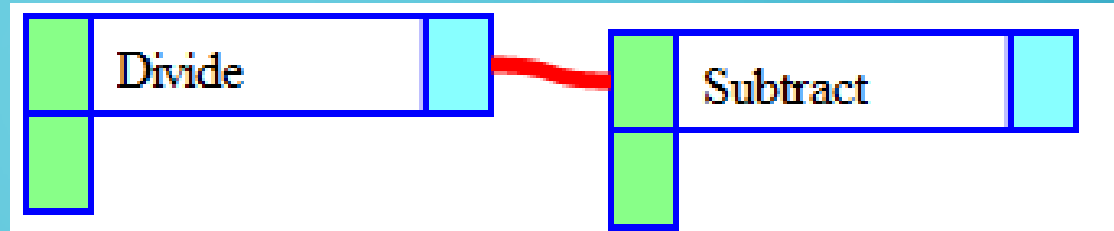
STEPHANIE QIE



BACKGROUND

- Dataflow diagram editor
 - Graphical User Interface (GUI)
 - Reductus
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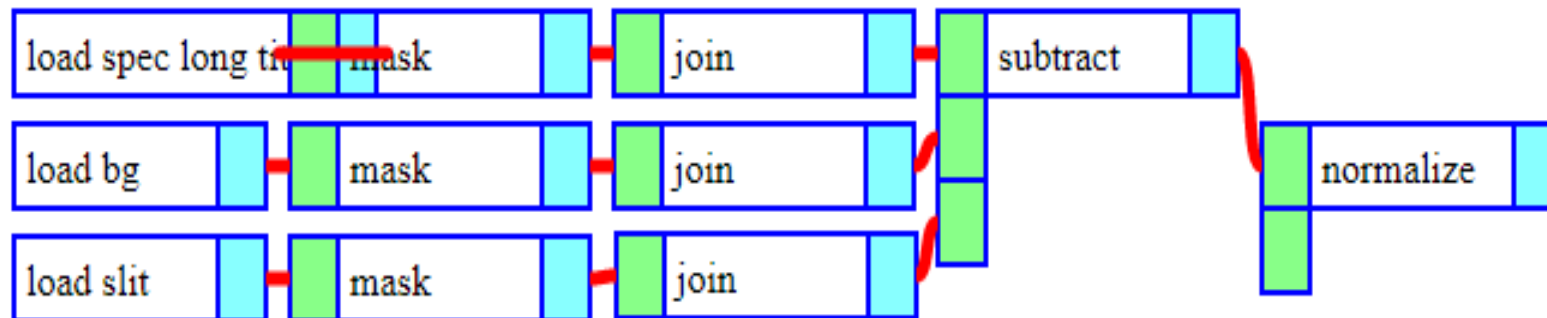
MODULES



- Represent different functions
- Wired together to be used as operations in a program
- A module has a title, module type, configuration, input and output terminals, and x and y coordinates




DATAFLOW DIAGRAM EDITOR

Add new module: No file chosen



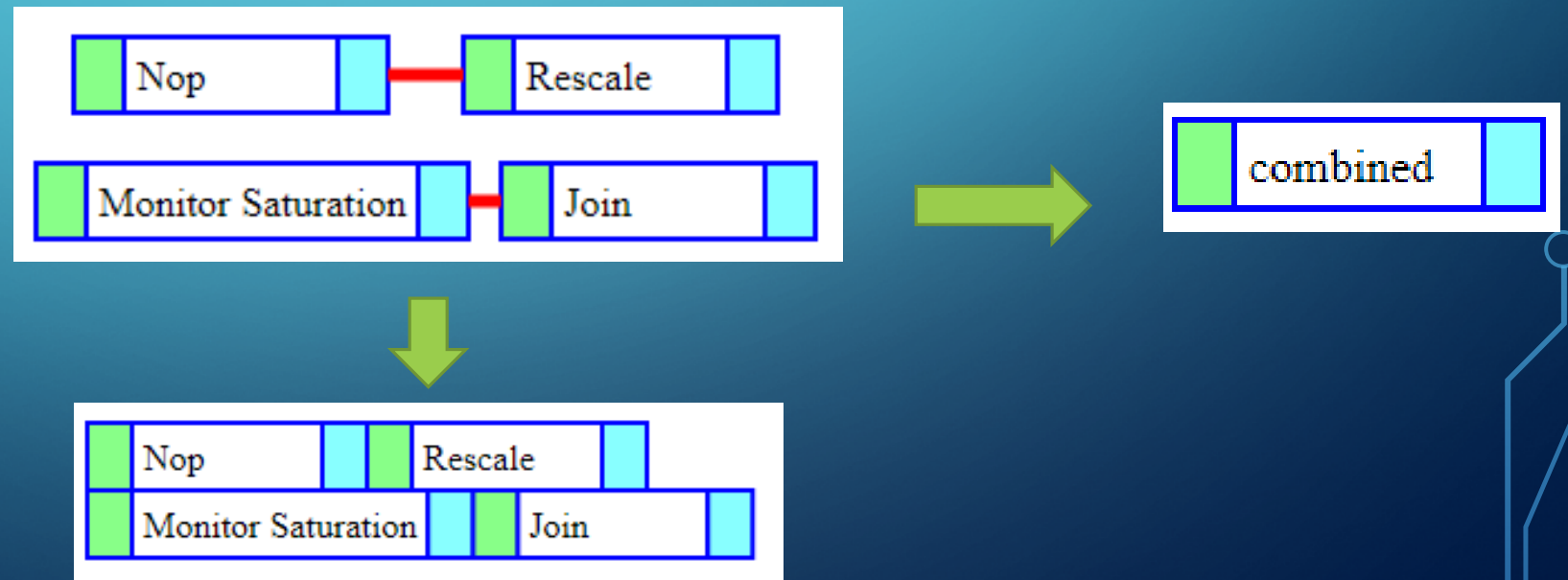


GOAL

- To convert a template of wired modules into a single combined module
 - Allow user to create complex templates
 - Make functions flexible
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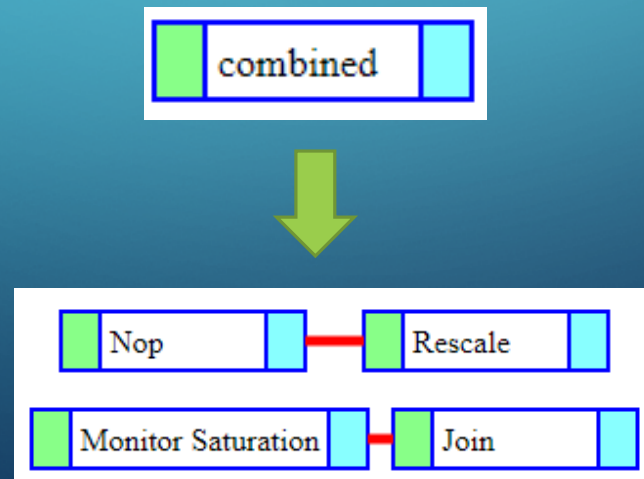
COMBINED MODULE

- Contain all of modules' data, and inputs, outputs, exposed parameters, module name






EXPAND COMBINED MODULE

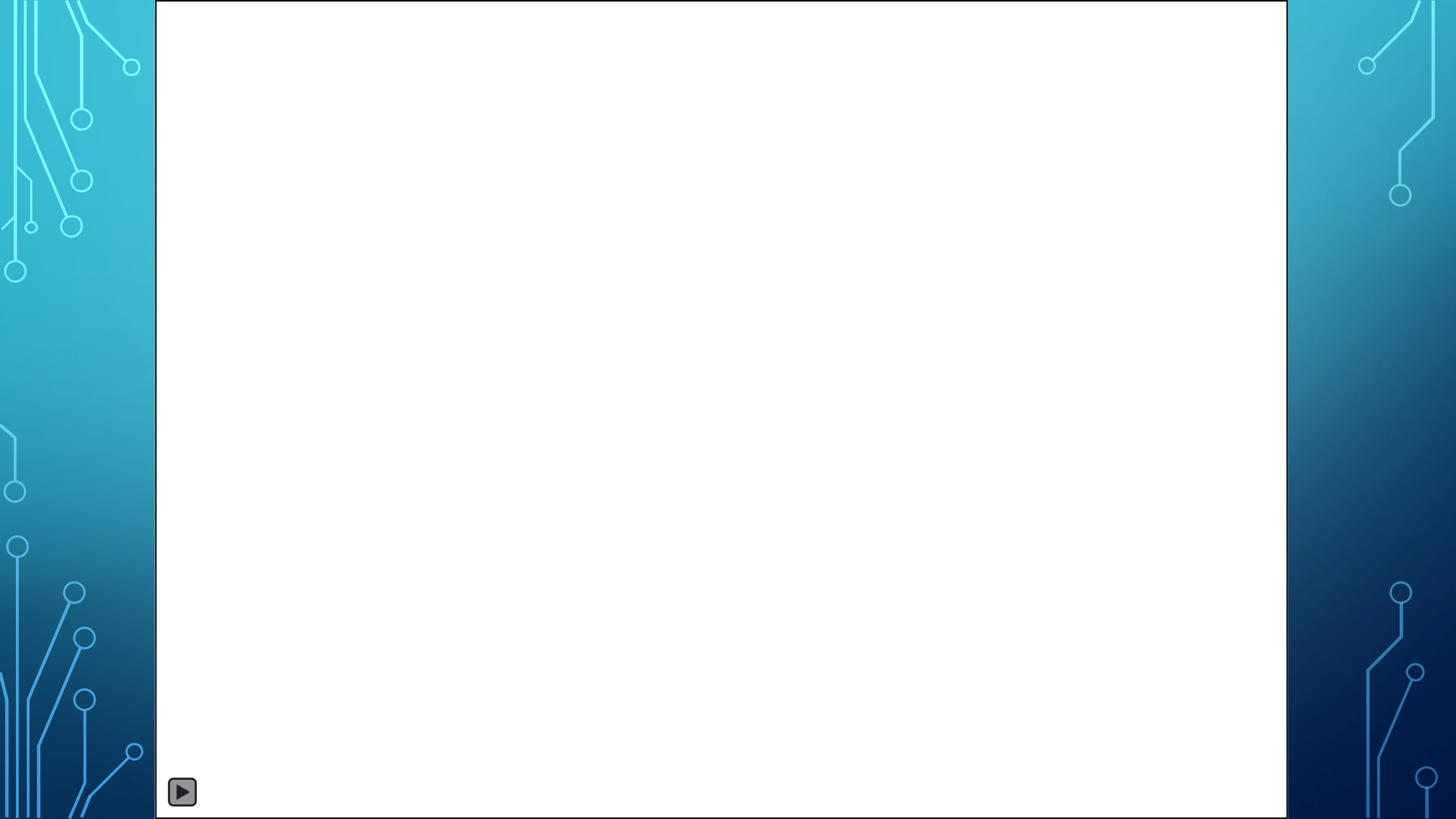
- Reverts the combined module to the wired template
- Allow for modules to be updated easily








TESTING

- Branched off of d3-science library
 - Notepad++
 - Anaconda Python
 - Git Bash
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CONCLUSION

- Combined module
 - Expanding combined module
 - Need to work on backend
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