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# Monoidal Theories

[Lucas Dixon](#),  
[Aleks Kissinger](#)

*(Submitted on 18  
Nov 2010)*

String  
diagrams  
are a  
powerful

tool for  
reasoning  
about  
physical  
processes,  
logic  
circuits,  
tensor  
networks,  
and  
many  
other  
compositional  
structures.

The  
distinguishing  
feature  
of these  
diagrams  
is that  
edges  
need not  
be  
connected  
to  
vertices  
at both  
ends,  
and  
these  
unconnected  
ends  
can be  
interpreted  
as the  
inputs

