

DRAWNETWORK 1.2 DOCUMENTATION

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ABSTRACT. Documentation to accompany the DrawNetwork java package. This is a modification of Mark Hoefer's 1996 DrawNetwork applet, with an added file output feature.

CONTENTS

1. DrawNetwork Applet	1
References	1

1. DRAWNETWORK APPLET

This purpose of this java applet is to allow the user to use a GUI to draw a network, and then output it, in the form of a Kirchoff matrix, as a spreadsheet for use with other mathematical software, such as Mathematica or Matlab. Most of the code present is the work of Mark Hoefer; we have merely implemented the file output feature.

- (1) Open DrawNetwork.html in a browser
- (2) You will be prompted to accept the applet's certificate. This is required for the file writing. If desired, users can unarchive and check the source to ensure there is no malicious code present. It can then be rearchived and locally signed, using jarsigner (part of the Java SDK).
- (3) Follow the instructions given in the applet for creating a network.
- (4) Enter the desired path and filename in the text field next to the "Output" button, then click.

The applet will output the rows of the matrix as space-delimited lines of values. The source could be easily modified to change this to comma- or tab-delimiting, if needed. For most predictable results, enter the full path and filename you want to write to. If you just enter the filename, it will appear *somewhere*; overall mileage may vary. We have also included a sample output and import into Mathematica.

REFERENCES

- [1] Mark Hoefer. "A Graphical User Interface for the Creation, Manipulation and Calculation of Electrical Networks." 1996

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