

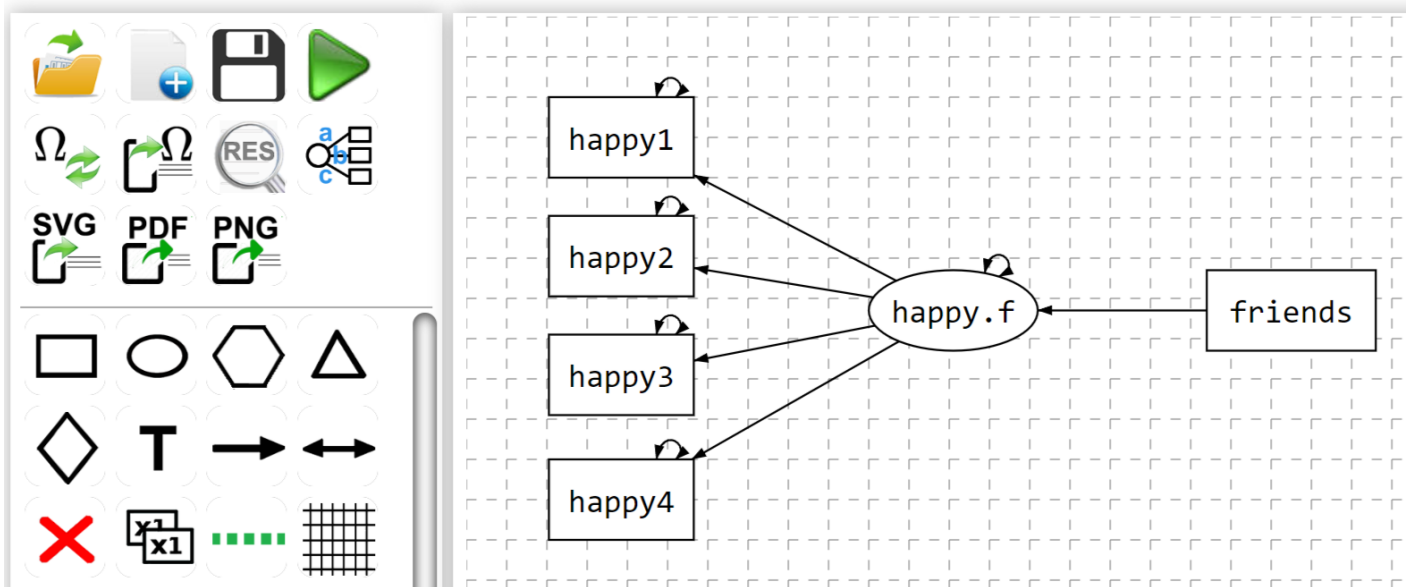
# The development of the online app

The online app BigSEM uses R in the backend to run analyses on a web server. The current server setup for the working BigSEM app is below:

- Ubuntu 24.04.1 LTS
- Apache/2.4.58
- PHP 8.3.6
- MySQL 8.0.40
- R 4.4.2

However, any server that supports PHP and MySQL should work. The app can also be easily set up on a local or remote server using xampp. If you plan to use the app offline, xampp is highly recommended.

## Graphical Interface



The graphical interface is developed using JavaScript. The core code is available at <https://github.com/johnnyzhz/semdiag>.

## R Setup

One needs to install R and the networksem and TextSEM on the server first. R can be a security risk. If used on a remote server, some security measures should be taken. On our server, we use AppArmor and R package RAppArmor.

# PHP for Bridging the Interface and R

We use PHP to connect to R to conduct the analysis.

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