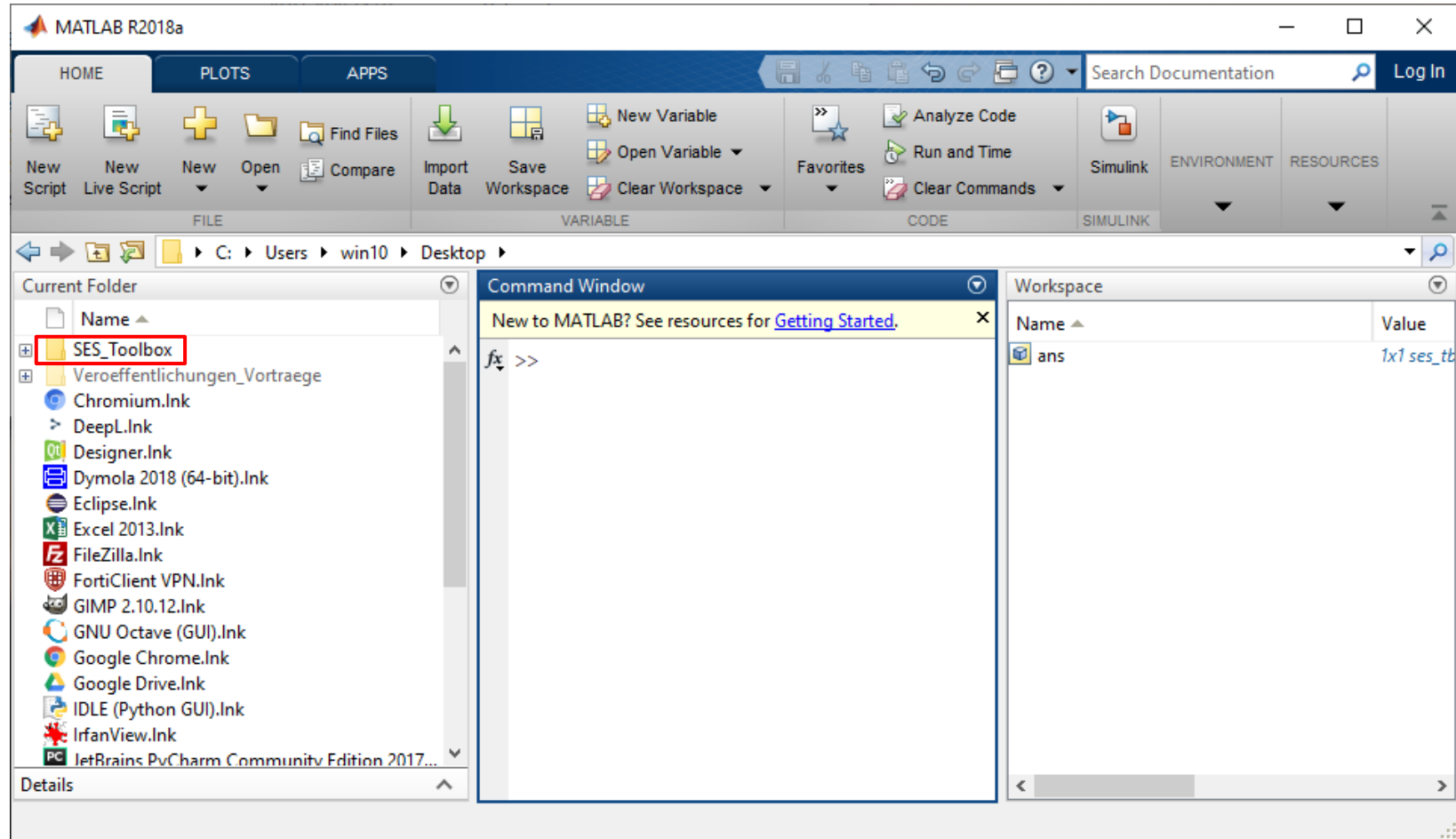


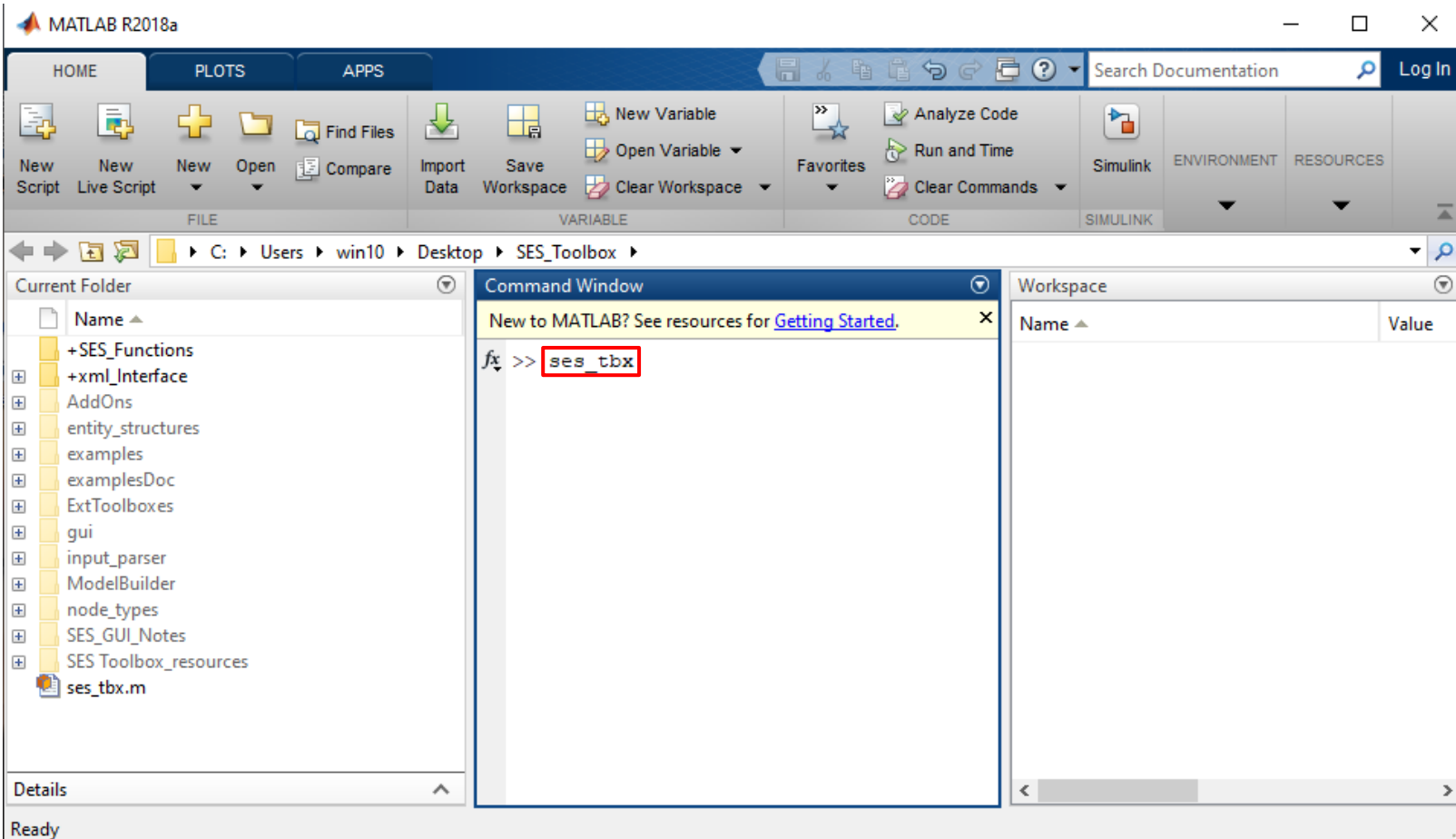
SES Editor and SESViewEl

Steps for SES Editor (Matlab R2018a)

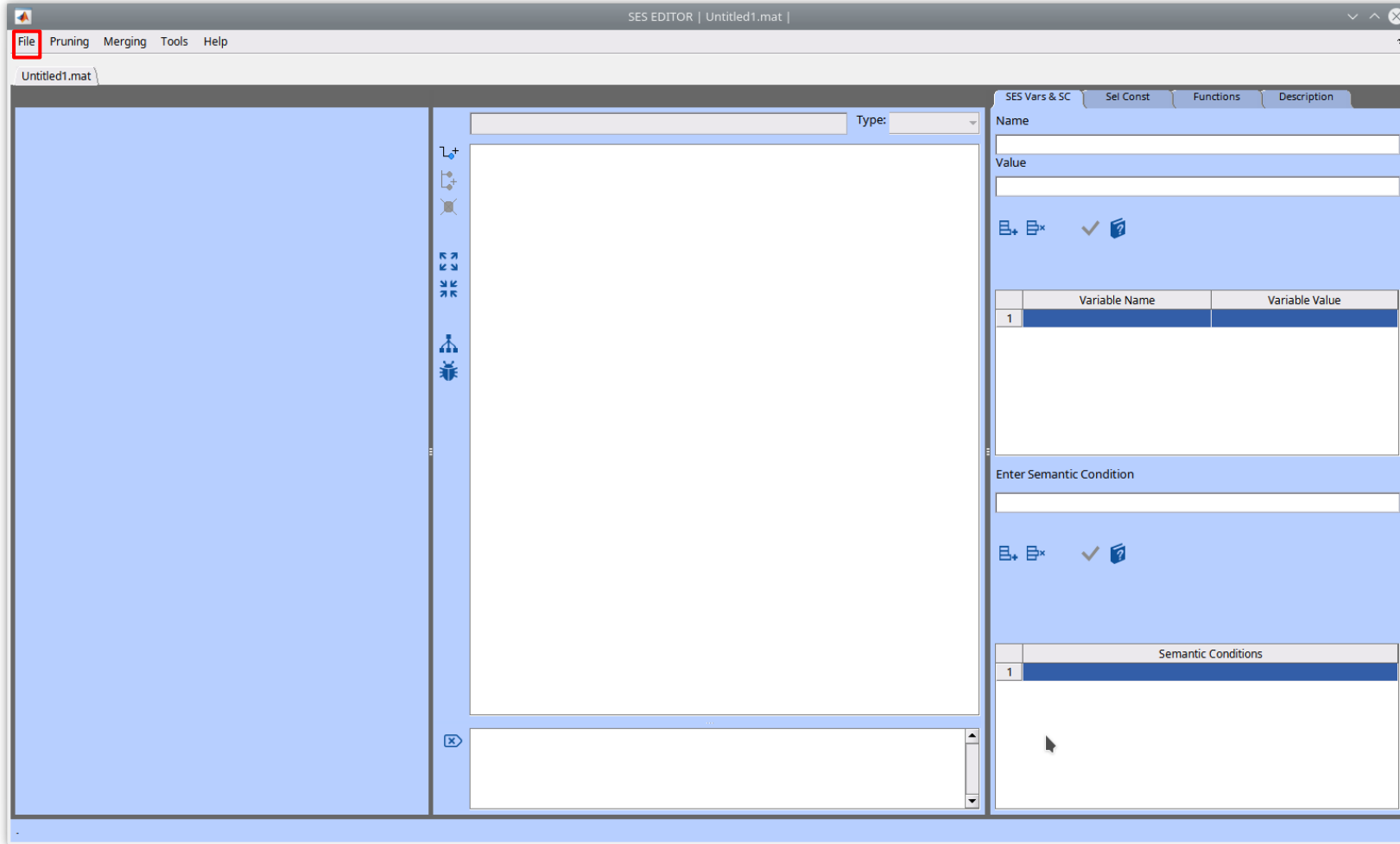
- Start Matlab
- Open the directory SES_Toolbox



- Start SES Editor with the command `ses_tbx`
- SES Editor will open



- Open example e.g. with File → Open Examples





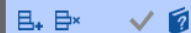
File Pruning Merging Tools Help

Untitled1.mat \ B09_modelSES.mat

Attributes Description

Name

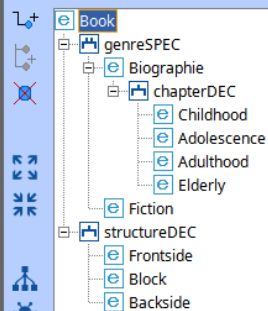
Value



	Name	Value
1		

Book

Type: Entity



SES Vars & SC

Sel Const

Functions

Description

Name

specVar

Value

1



	Variable Name	Variable Value
1	specVar	1
2	prioVar	1

Enter Semantic Condition

ismember(specVar,[1,2])

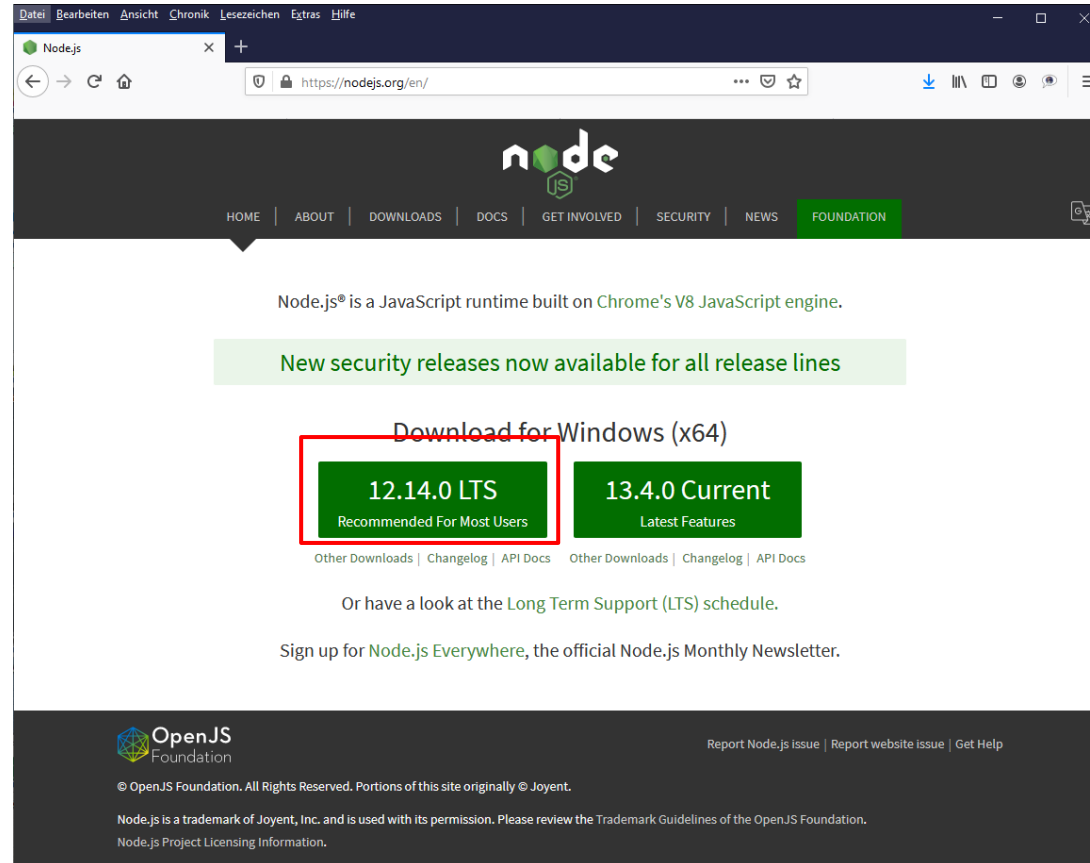


	Semantic Conditions
1	ismember(specVar,[1,2])
2	ismember(prioVar,[1,2])

Steps for SESViewEI

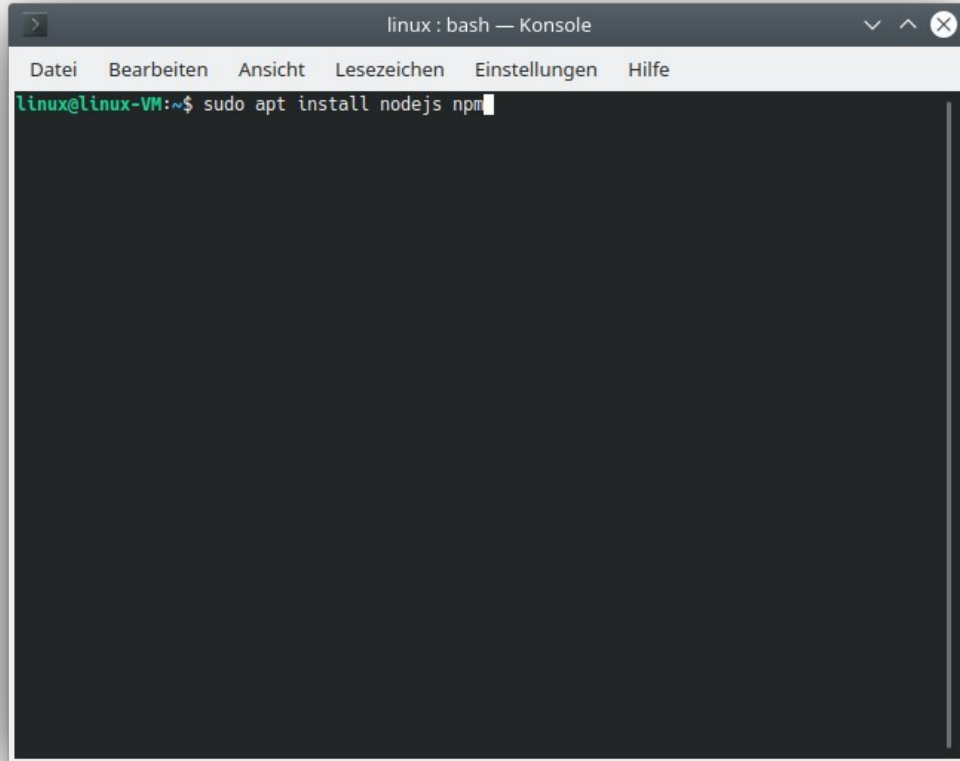
Install node.js for Windows:

- Download node.js and install it
(Leave in the installation process everything on default values.)



Install node.js for Linux:

- Open a shell and type `sudo apt install nodejs npm`

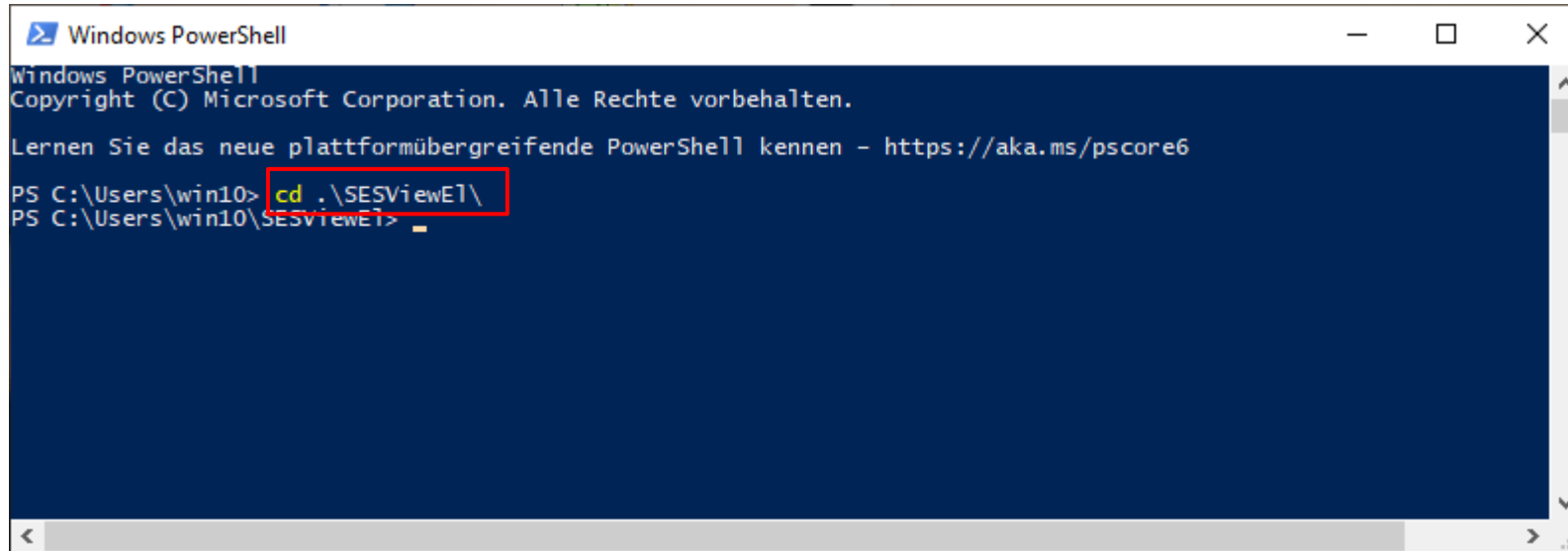


A terminal window titled "linux : bash — Konsole" with a menu bar containing "Datei", "Bearbeiten", "Ansicht", "Lesezeichen", "Einstellungen", and "Hilfe". The terminal shows the command `linux@linux-VM:~$ sudo apt install nodejs npm` being entered. The window has a dark background and a light border.

The next steps show the Windows PowerShell, but they work with the Linux shell analogously.

It is assumed that the directory with the SESViewEl files is <HOME>\SESViewEl\

- Open a shell and navigate in the shell to the SESViewEl directory with the `cd` command



```
Windows PowerShell
Copyright (C) Microsoft Corporation. Alle Rechte vorbehalten.

Lernen Sie das neue plattformübergreifende PowerShell kennen - https://aka.ms/pscore6

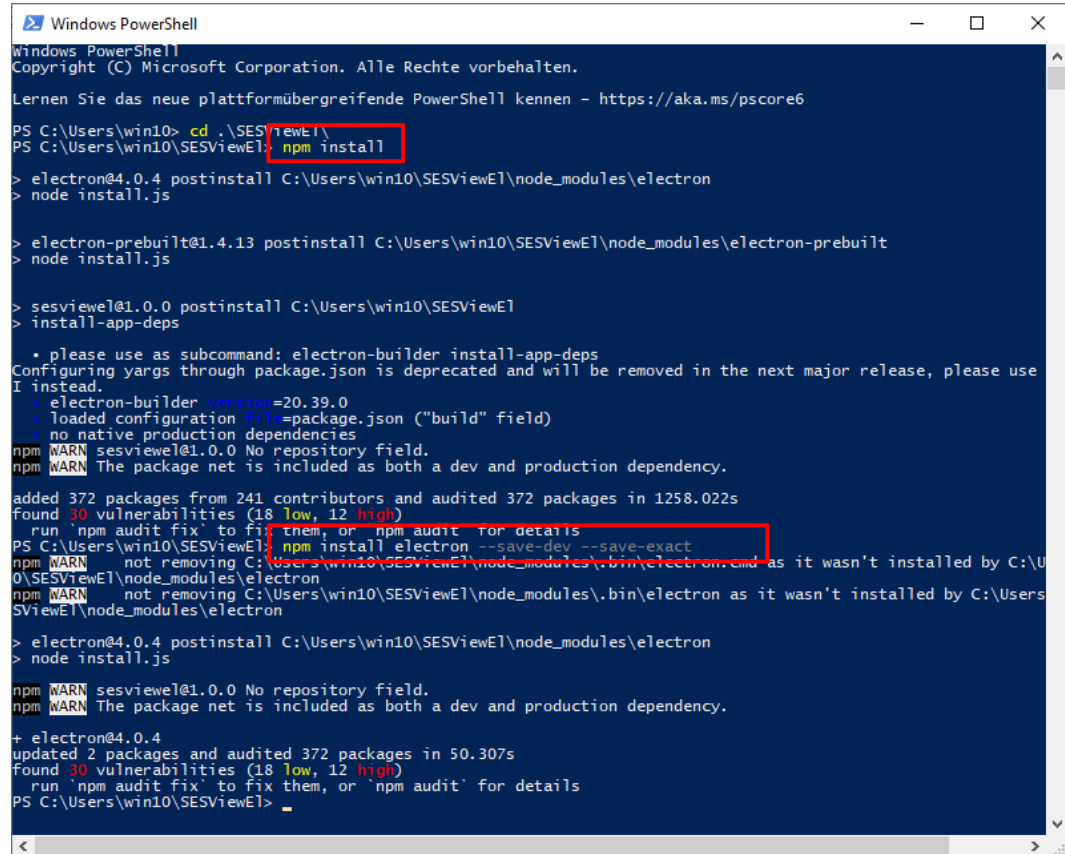
PS C:\Users\win10> cd .\SESViewEl\
PS C:\Users\win10\SESViewEl>
```

- Execute the following commands:

```
npm install
```

```
npm install electron --save-dev --save-exact
```

- About 400MB are installed



```
Windows PowerShell
Copyright (C) Microsoft Corporation. Alle Rechte vorbehalten.

Lernen Sie das neue plattformübergreifende PowerShell kennen - https://aka.ms/pscore6

PS C:\Users\win10> cd .\SESViewE1\newE1\
PS C:\Users\win10\SESViewE1\newE1> npm install

> electron@4.0.4 postinstall C:\Users\win10\SESViewE1\node_modules\electron
> node install.js

> electron-prebuilt@1.4.13 postinstall C:\Users\win10\SESViewE1\node_modules\electron-prebuilt
> node install.js

> sesview1@1.0.0 postinstall C:\Users\win10\SESViewE1
> install-app-deps

  • please use as subcommand: electron-builder install-app-deps
Configuring yarns through package.json is deprecated and will be removed in the next major release, please use
I instead.
  • electron-builder version=20.39.0
  • loaded configuration file=package.json ("build" field)
  • no native production dependencies
npm WARN sesview1@1.0.0 No repository field.
npm WARN The package net is included as both a dev and production dependency.

added 372 packages from 241 contributors and audited 372 packages in 1258.022s
found 30 vulnerabilities (18 low, 12 high)
run 'npm audit fix' to fix them, or 'npm audit' for details
PS C:\Users\win10\SESViewE1\newE1> npm install electron --save-dev --save-exact
npm WARN not removing C:\Users\win10\SESViewE1\node_modules\.bin\electron.cmd as it wasn't installed by C:\U
0\SESViewE1\node_modules\electron
npm WARN not removing C:\Users\win10\SESViewE1\node_modules\.bin\electron as it wasn't installed by C:\Users
SViewE1\node_modules\electron

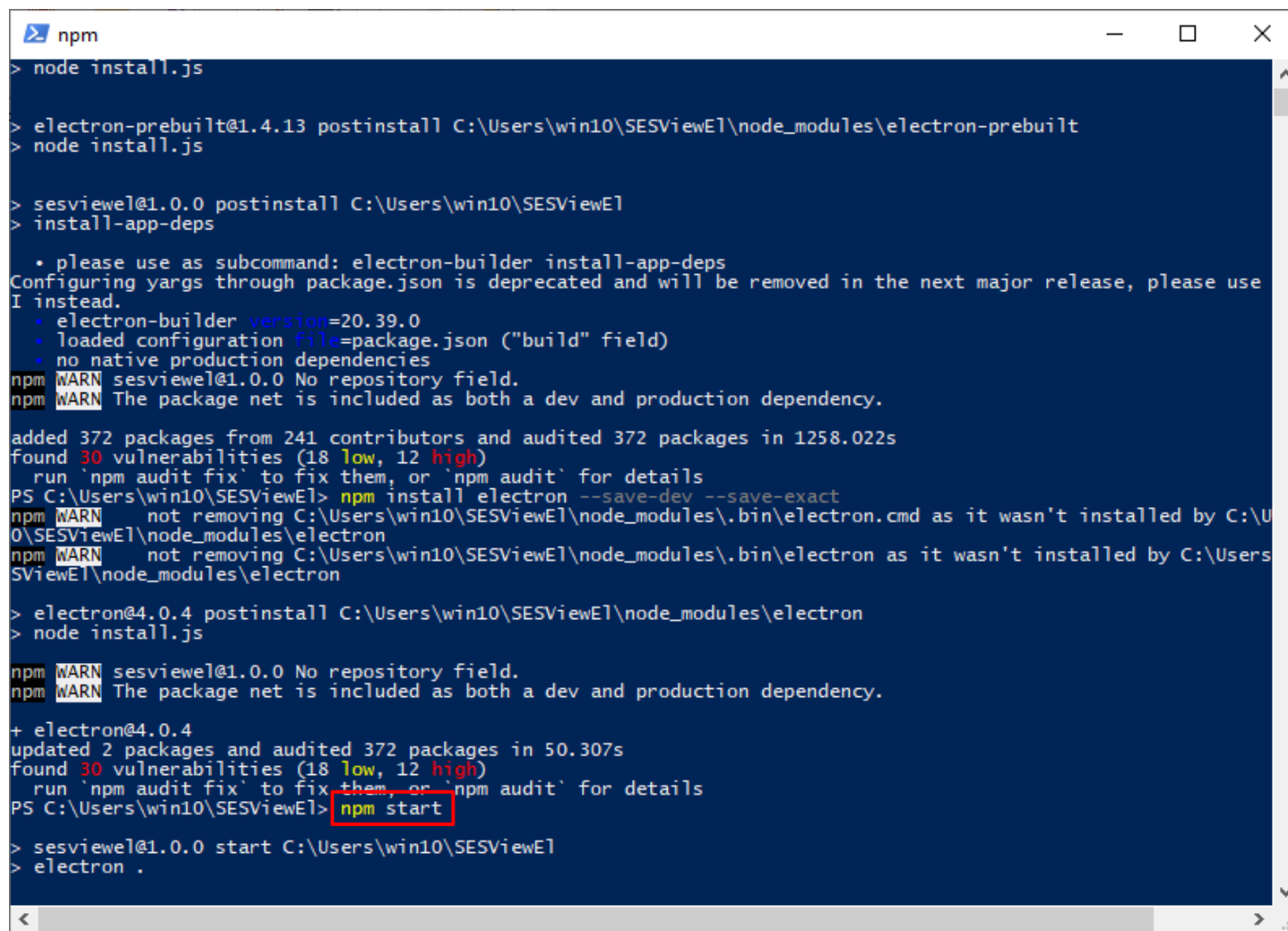
> electron@4.0.4 postinstall C:\Users\win10\SESViewE1\node_modules\electron
> node install.js

npm WARN sesview1@1.0.0 No repository field.
npm WARN The package net is included as both a dev and production dependency.

+ electron@4.0.4
updated 2 packages and audited 372 packages in 50.307s
found 30 vulnerabilities (18 low, 12 high)
run 'npm audit fix' to fix them, or 'npm audit' for details
PS C:\Users\win10\SESViewE1>
```

- Start SESViewEI with the command:

`npm start`



```
npm
> node install.js

> electron-prebuilt@1.4.13 postinstall C:\Users\win10\SESViewEI\node_modules\electron-prebuilt
> node install.js

> sesviewel@1.0.0 postinstall C:\Users\win10\SESViewEI
> install-app-deps

  • please use as subcommand: electron-builder install-app-deps
Configuring yargs through package.json is deprecated and will be removed in the next major release, please use
I instead.
  • electron-builder version=20.39.0
  • loaded configuration file=package.json ("build" field)
  • no native production dependencies
npm WARN sesviewel@1.0.0 No repository field.
npm WARN The package net is included as both a dev and production dependency.

added 372 packages from 241 contributors and audited 372 packages in 1258.022s
found 30 vulnerabilities (18 low, 12 high)
  run 'npm audit fix' to fix them, or 'npm audit' for details
PS C:\Users\win10\SESViewEI> npm install electron --save-dev --save-exact
npm WARN not removing C:\Users\win10\SESViewEI\node_modules\.bin\electron.cmd as it wasn't installed by C:\U
0\SESViewEI\node_modules\electron
npm WARN not removing C:\Users\win10\SESViewEI\node_modules\.bin\electron as it wasn't installed by C:\Users
SViewEI\node_modules\electron

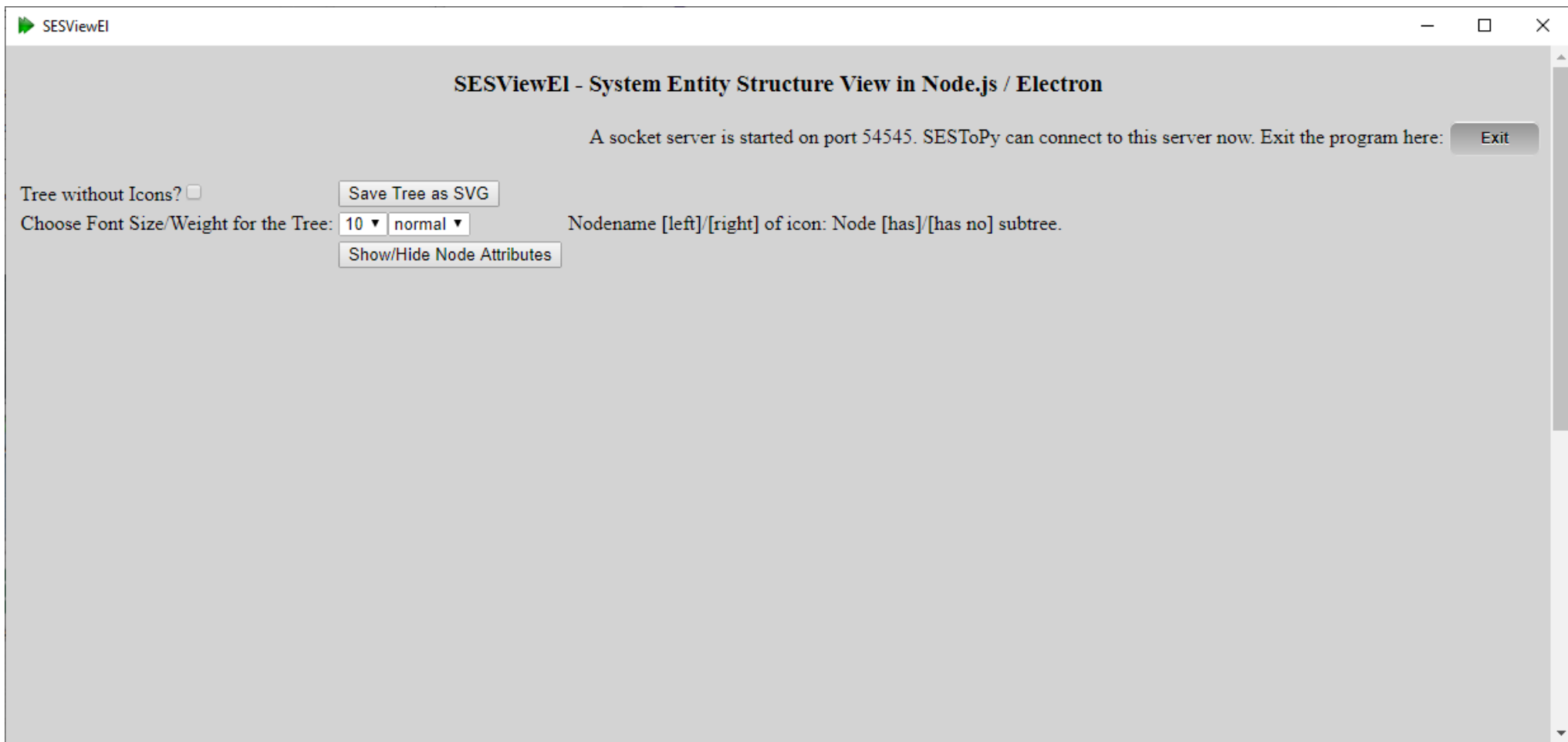
> electron@4.0.4 postinstall C:\Users\win10\SESViewEI\node_modules\electron
> node install.js

npm WARN sesviewel@1.0.0 No repository field.
npm WARN The package net is included as both a dev and production dependency.

+ electron@4.0.4
updated 2 packages and audited 372 packages in 50.307s
found 30 vulnerabilities (18 low, 12 high)
  run 'npm audit fix' to fix them, or 'npm audit' for details
PS C:\Users\win10\SESViewEI> npm start

> sesviewel@1.0.0 start C:\Users\win10\SESViewEI
> electron .
```

- SESViewEl opens up



**Connect
SES Editor and SESViewEl**

SES EDITOR | B09_modelSES.mat | 18-Aug-2016 17:40:10

File Pruning Merging Tools Help

Untitled1.mat B09_modelSES.mat

AttributesDescription

Name

Value

Book

Type: Entity

Book

genreSPEC

Biographie

chapterDEC

Childhood

Adolescence

Adulthood

Elderly

Fiction

structureDEC

Frontside

Block

Backside

	Name	Value
1		

SES Vars & SCSel ConstFunctions

Name

specVar

Value

1

Enter Semantic Condition

ismember(specVar,[1,2])

	Semantic Conditions
1	ismember(specVar,[1,2])
2	ismember(prioVar,[1,2])

SESViewEI

File Edit View Window Help

SESViewEI - System Entity Structure View in Node.js / Electron

A socket server is started on port 54545. SESToPy can connect to this server now. Save received string as XML file? ☒ - Exit the program here:

Exit

Tree without Icons? ☐

Save Tree as SVG

Choose Font Size/Weight for the Tree: 10 normal

Nodename [left]/[right] of icon: Node [has]/[has no] subtree.

Show/Hide Node Attributes

/home/linux/MATLAB Add-Ons/Toolboxes/SES Toolbox/examples/Basic/09 Aspect Inheritance & Priorities/

SES EDITOR | B09_modelSES.mat | 18-Aug-2016 17:40:10

File Pruning Merging Tools Help

Untitled1.mat \ B09_modelSES.mat

Attributes Description

Name

Value

Book Type: Entity

Book

- genreSPEC
 - Biographie
 - chapterDEC
 - Childhood
 - Adolescence
 - Adulthood
 - Elderly
 - Fiction
- structureDEC
 - Frontside
 - Block
 - Backside

SES Vars & SC Sel Const Fur

Name

specVar

Value

1

Variable Name	Variable Value
1 specVar	1
2 prioVar	1

Enter Semantic Condition

ismember(specVar,[1,2])

Semantic Conditions
1 ismember(specVar,[1,2])
2 ismember(prioVar,[1,2])

1

Name

Value

1

SESViewEI

File Edit View Window Help

SESViewEI - System Entity Structure View in Node.js / Electron

A socket server is started on port 54545. SESToPy can connect to this server now. Save received string as XML file? ☒ - Exit the program here: Exit

Tree without Icons? ☐

Save Tree as SVG

Choose Font Size/Weight for the Tree: 15 normal

Nodename [left]/[right] of icon: Node [has]/[has no] subtree.

Show/Hide Node Attributes

SES variables	semantic conditions
specVar = 1, comment:	ismember(specVar,[1,2]), result:
prioVar = 1, comment:	ismember(prioVar,[1,2]), result:

```
graph TD; Book[e] --- genreSPEC[+]; Book --- structureDEC[+]; genreSPEC --- Biographie[e]; genreSPEC --- Fiction[e]; Biographie --- chapterDEC[+]; chapterDEC --- Adolescence[e]; chapterDEC --- Adulthood[e]; chapterDEC --- Childhood[e]; chapterDEC --- Elderly[e]; structureDEC --- Backside[e]; structureDEC --- Block[e]; structureDEC --- Frontside[e];
```