## **ThreadNet 4 Installation Notes and Instructions**

December 19, 2022 Brian Pentland (with help from PJ Noghrehchi)

## **Release Notes for ThreadNet 4**

ThreadNet 4 contains three main changes:

**1. Bug fixes.** The bugs that prevented users from loading/viewing data have been fixed.

**2. Enhanced capacity.** ThreadNet should be able to handle much larger data sets without getting bogged down.

**3.** Streamlined feature set. ThreadNet no longer contains the ability to "zoom" a network. The results were difficult to interpret and limited the amount of data that could be handled.

## **Installation Instructions**

1. If they are not already installed, you will need to install R and Rstudio.

You can download R here: <u>https://www.r-project.org</u>

The new URL for RStudio is: <u>https://posit.co</u>

# 2. *If you have previously installed ThreadNet,* you need to remove it from your R installation. To do so, open RStudio and run the following command:

remove.packages("ThreadNet")

You can also delete any of the older ThreadNet source files from your computer.

5. Onzip the file fileadivet4.zip											
< > ThreadNet4	$\equiv$ $\diamond$		Û	$\bigcirc$	`≡ <b>v</b>	۲	<b>⊙</b> ∨		Q Sear	ch	
Back/Forward	View	Group	Share	Add Tags	Path	Quick Look	Action			Search	
Folder shared with File Sharing											
Name			~ C	ate Modified	I	Size		Kind		Date Added	
ThreadNet 4 Installation Instructions.d	ocx		C	Oct 19, 2022	at 8:26 AM	5	96 KB	Microso	(.docx)	Today at 2:58 PM	
✓			Т	oday at 2:5	1 PM			Folder		Oct 11, 2022 at 1:1	I4 PM
DESCRIPTION			J	ul 4, 2018 a	t 10:27 AM	583	bytes	Documen	t	Oct 11, 2022 at 1:1	I4 PM
> 🚞 inst			J	un 4, 2018 a	at 7:08 PM			Folder		Oct 11, 2022 at 1:1	I4 PM
> 🚞 man			J	ul 4, 2018 a	t 10:27 AM			Folder		Oct 11, 2022 at 1:1	14 PM
NAMESPACE			J	ul 4, 2018 a	t 10:27 AM		2 KB	Documen	t	Oct 11, 2022 at 1:1	I4 PM
> 🚞 R			C	Oct 7, 2018 a	at 2:43 PM			Folder		Oct 11, 2022 at 1:1	I4 PM
README.md			J	ul 4, 2018 a	t 10:27 AM		2 KB	Markdow	n File	Oct 11, 2022 at 1:1	I4 PM
ThreadNet.Rproj			Т	oday at 2:5	1 PM	396	bytes	R Project		Oct 11, 2022 at 1:1	I4 PM

#### 3. Unzip the file ThreadNet4.zip

#### 4. Open RStudio.

#### 5. Navigate to the location of the unzipped files.

Files	Plots	Packages	Help	Viewer	Presentation		-0
🔰 Nev	w Folder	O New Bla	ank File 🖣	- 🕴 De	lete 🏾 🚑 Renar	ne 🛛 🧔 M	lore •
0	Home >	Documents	> RStuff	> Thread	let4 > ThreadN	let4 Test	
	🔺 Nar	ne				Size	Modified
1	<b>1</b>						
•	DESCR	RIPTION				583 B	Jul 4, 2018, 10:27 AM
0 🧉	inst						
0 🧉	man						
	NAME	SPACE				1.6 KB	Jul 4, 2018, 10:27 AM
	R						
	READ	ME.md				1.6 KB	Jul 4, 2018, 10:27 AM
	Threa	dNet.Rproi				396 B	Oct 17, 2022, 9:23 AM

### 6. Make this your session working directory.

#### Set Working Directory to File Panes Location:

v Plots	Session	Build	Debug	Profile	Tools	Window	Help			
	New Sessi	on								
ous Calis	Interrupt R Terminate	R								
r Statist bit)	Restart R		<u>ۍ</u>	¥0						
LUTELY NO	Set Workir	ng Direct	ory	> T	To Source File Location					
er certai stributic	Load Workspace				o Files Pa	ne Location				
	Save Work	space A	s	с	hoose Dir	ectory	^&H			
in an Er	Clear Worl	kspace								
contribu tion and	Quit Sessi	on	0	#Q						
kages in p	ublicatio	ns.								

#### 7. Open the ThreadNet.Rproj project file.

This will change projects and restart your R session. Save your old workspace if you want.

#### 8. In the Build tab (upper right corner), select Install>>Clean and Install.

This makes a fresh version of the ThreadNet package and replaces old code. It should just take a few seconds to run.



#### 7. Install additional packages, if needed.

ThreadNet uses functions from a collection of other R packages. If needed, you can copy/paste this code into the R Studio command window. You should only need to install them once. After they are installed, ThreadNet automatically insures they are loaded when it starts.

install.packages(c( "shiny", "shinyjs", "plotly", "ggplot2", "tidyverse", "ngram", "stringr", "stringdist", "igraph", "networkD3", "visNetwork", "xesreadR", "colorspace", "DT", "RColorBrewer", "lubridate", "knitr", "XML", "ThreadNet"))

#### Notes from PJ:

\*If you encounter the following message, type "yes" then hit Enter: Do you want to install from sources the package which needs compilation? (Yes/no/cancel)

This will try and install any other packages that are necessary for you to install the one you are currently trying to install.

Make sure all packages have properly loaded. If they haven't, you'll see a message that looks like the following, with the name of the package that didn't install:

Warning in install.packages : installation of package 'nlme' had non-zero exit status

On Mac: To install certain packages, you may need to install xcode. Go to the Terminal tab of Rstudio (next to Console) and enter the following code to install the command line developer tools:

xcode-select --install

#### This should work, but if not try:

sudo xcode-select --reset

#### 8. Launch the new version of ThreadNet in the command window

Just type "ThreadNet()"

[Workspace loaded from ~/Documents/RStuff/ThreadNet4/ThreadNet4 Test/.RData]

Restarting R session...

```
> library(ThreadNet)
> ThreadNet()
```

10. ThreadNet should launch in your browser. You can tell it is running "ThreadNet4" by the title that shows in the browser.

$\langle \rangle$		127.0.0.1
		ThreadNet 4
Read Data	Acknowledgements	
Select a file that	t contains your data.	
		Please select a .csv or .xes file
		Browse No file selected

**11.** From this point on, refer to the ThreadNet 4 instructions. Enjoy!