Dynamic SEM on ESM Data

Structural Equation Modeling Course Project - KU Leuven

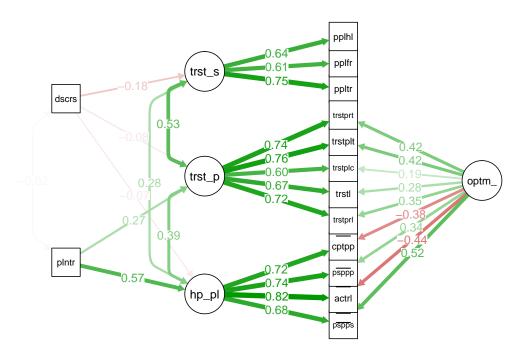
MohammadHossein Manuel Haqiqatkhah - R0607671 2019-08-23

```
# selecting items and reading data ------
items <- list(</pre>
  discrimination = c("dscrrce",
                   "dscrntn",
                   "dscrrlg",
                   "dscrlng",
                   "dscretn",
                   "dscrage",
                   "dscrgnd",
                   "dscrsex",
                   "dscrdsb",
                   "dscroth"
                   ),
  trust_social = c("ppltrst",
                  "pplfair",
                  "pplhlp"
                  ),
 trust_political = c("trstprl",
                    "trstlgl",
                    "trstplc",
                    "trstplt",
                    "trstprt"
                    ),
 hope_political = c("psppsgva",
                   "actrolga",
                   "psppipla",
                   "cptppola"),
 interest_political = "polintr"
)
items_ordered <- items$hope_political %>% unlist() %>% as.character()
data <- read.csv("https://github.com/psyguy/sem-course-project/raw/master/data/ess2016_selected.csv")
# cleaning/recoding the data -----
d <- data
# removing invalid/missing data
d[d>10] \leftarrow NA
```

```
## Warning in Ops.factor(left, right): '>' not meaningful for factors
```

```
d$polintr[d$polintr>4] <- NA
d[,20:23][d[,20:23]>5] <- NA
# reverse-coding polint
d$polintr <- (d$polintr-5) %>% abs()
dscrscore <- d %>% select(contains("dscr")) %>% rowSums()
d <- d %>% cbind(dscrscore)
d <- d %>% filter(cntry == "BE") %>% na.omit()
# making model syntaxes ------
m.5 <- "
# 1. latent variable definitions
 hope_political =~ NA*psppsgva + actrolga + psppipla + cptppola
 trust_social =~ NA*ppltrst + pplfair + pplhlp
 trust_political =~ NA*trstprl + trstlgl + trstplc + trstplt + trstprt
 optimism_political =~ NA*psppsgva + actrolga + psppipla + cptppola +
                      trstprl + trstlgl + trstplc + trstplt + trstprt
# 2. regressions
 hope_political + trust_political ~ polintr
 hope_political + trust_social + trust_political ~ dscrscore
# 3. (co)variances
 hope_political ~~ 1*hope_political
 trust_social ~~ 1*trust_social
 trust_political ~~ 1*trust_political
 # optimism_general ~~ 1*optimism_general
 optimism_political ~~ 1*optimism_political
 hope_political ~~ trust_social + trust_political
 trust_social ~~ trust_political
# 4. intercepts
 psppsgva + actrolga + psppipla + cptppola ~ 1
 ppltrst + pplfair + pplhlp ~ 1
 trstprl + trstlgl + trstplc + trstplt + trstprt ~ 1
# fitting and plotting model ------
f \leftarrow lavaan(m.5, d,
           ordered = c(items_ordered, as.character(unlist(items$discrimination))),
           std.lv = TRUE,
           auto.var=TRUE)
# f %>% summary(standardized=TRUE)
semPaths(f,
        title = FALSE,
        curvePivot = TRUE,
```

```
what = "std",
  rotation = 2,
  layout = "tree2",
  optimizeLatRes = TRUE,
  intercepts = FALSE,
  edge.label.cex = 0.95,
  exoVar=FALSE,
  sizeMan=5,
  sizeLat=7,
  nCharNodes=5,
  residuals=FALSE,
  fixedStyle=1,
  freeStyle=1,
  curvePivot = FALSE)
```



hope_political =~						
psppsgva	0.588	0.026	22.591	0.000	0.537	0.639
actrolga	0.767	0.024	31.405	0.000	0.719	0.815
psppipla	0.660	0.021	31.081	0.000	0.618	0.702
cptppola	0.658	0.025	26.822	0.000	0.610	0.706
trust_social =~						
ppltrst	1.554	0.063	24.822	0.000	1.432	1.677
pplfair	1.113	0.048	22.979		1.018	1.207
pplhlp	1.253	0.057	21.963	0.000	1.141	1.365
	1.255	0.057	21.903	0.000	1.141	1.303
<pre>trust_political =~</pre>	4 404	0.050	00 007	0.000	4 004	4 500
trstprl	1.484	0.052	28.337	0.000	1.381	1.586
trstlgl	1.480	0.058	25.582	0.000	1.366	1.593
trstplc	1.170	0.048	24.126		1.075	1.265
trstplt	1.572	0.053	29.687	0.000	1.468	1.676
trstprt	1.507	0.056	27.018	0.000	1.397	1.616
optimism_political	=~					
psppsgva	0.583	0.033	17.557	0.000	0.518	0.648
actrolga	-0.472	0.046	-10.354		-0.561	-0.382
psppipla	0.401	0.034	11.728		0.334	0.468
cptppola	-0.403	0.034	-10.588		-0.478	-0.328
		0.058	13.674		0.680	0.907
trstprl	0.794					
trstlgl	0.652	0.063	10.378		0.529	0.775
trstplc	0.399	0.053	7.507		0.295	0.503
trstplt	0.933	0.059	15.805		0.817	1.049
trstprt	0.921	0.061	15.154	0.000	0.802	1.040
egressions:						
	T					
	Estimate	Std.Err	z-value	P(> z)	i.lower o	ci.upper
hope_political ~	Estimate	Std.Err	z-value	P(> z) c	i.lower o	i.upper
nope_political ~ polintr	Estimate 0.775	0.032	z-value 24.093	0.000	0.712	0.838
polintr						
polintr trust_political ~	0.775	0.032	24.093	0.000	0.712	0.838
polintr trust_political ~ polintr						
polintr trust_political ~ polintr hope_political ~	0.775	0.032	24.093 10.705	0.000	0.712	0.838
<pre>polintr trust_political ~ polintr hope_political ~ dscrrce</pre>	0.775 0.327 0.128	0.032 0.031 0.210	24.093 10.705 0.610	0.000 0.000 0.542	0.712 0.267 -0.283	0.838 0.387 0.539
polintr trust_political ~ polintr hope_political ~ dscrrce dscrntn	0.775 0.327 0.128 -0.599	0.032 0.031 0.210 0.162	24.093 10.705 0.610 -3.710	0.000 0.000 0.542 0.000	0.712 0.267 -0.283 -0.916	0.838 0.387 0.539 -0.283
polintr trust_political ~ polintr hope_political ~ dscrrce dscrntn dscrrlg	0.775 0.327 0.128 -0.599 -0.468	0.032 0.031 0.210 0.162 0.178	24.093 10.705 0.610 -3.710 -2.627	0.000 0.000 0.542 0.000 0.009	0.712 0.267 -0.283 -0.916 -0.817	0.838 0.387 0.539 -0.283 -0.119
polintr trust_political ~ polintr hope_political ~ dscrrce dscrntn dscrrlg dscrlng	0.775 0.327 0.128 -0.599 -0.468 0.079	0.032 0.031 0.210 0.162 0.178 0.270	24.093 10.705 0.610 -3.710 -2.627 0.293	0.000 0.000 0.542 0.000 0.009 0.769	0.712 0.267 -0.283 -0.916 -0.817 -0.450	0.838 0.387 0.539 -0.283 -0.119 0.608
polintr trust_political ~ polintr hope_political ~ dscrrce dscrntn dscrrlg dscrlng dscretn	0.775 0.327 0.128 -0.599 -0.468 0.079 0.578	0.032 0.031 0.210 0.162 0.178 0.270 0.420	24.093 10.705 0.610 -3.710 -2.627 0.293 1.378	0.000 0.000 0.542 0.000 0.009 0.769 0.168	0.712 0.267 -0.283 -0.916 -0.817 -0.450 -0.244	0.838 0.387 0.539 -0.283 -0.119 0.608 1.401
polintr trust_political ~ polintr hope_political ~ dscrrce dscrntn dscrrlg dscrlng dscretn dscrage	0.775 0.327 0.128 -0.599 -0.468 0.079 0.578 -0.445	0.032 0.031 0.210 0.162 0.178 0.270 0.420 0.525	24.093 10.705 0.610 -3.710 -2.627 0.293 1.378 -0.849	0.000 0.000 0.542 0.000 0.009 0.769 0.168 0.396	0.712 0.267 -0.283 -0.916 -0.817 -0.450 -0.244 -1.474	0.838 0.387 0.539 -0.283 -0.119 0.608 1.401 0.583
trust_political ~ polintr hope_political ~ dscrrce dscrntn dscrrlg dscrlng dscretn dscrage dscrgnd	0.775 0.327 0.128 -0.599 -0.468 0.079 0.578 -0.445 1.052	0.032 0.031 0.210 0.162 0.178 0.270 0.420 0.525 0.442	24.093 10.705 0.610 -3.710 -2.627 0.293 1.378 -0.849 2.379	0.000 0.000 0.542 0.000 0.009 0.769 0.168 0.396 0.017	0.712 0.267 -0.283 -0.916 -0.817 -0.450 -0.244 -1.474 0.185	0.838 0.387 0.539 -0.283 -0.119 0.608 1.401 0.583 1.918
polintr trust_political ~ polintr hope_political ~ dscrrce dscrntn dscrrlg dscrlng dscretn dscrage	0.775 0.327 0.128 -0.599 -0.468 0.079 0.578 -0.445	0.032 0.031 0.210 0.162 0.178 0.270 0.420 0.525	24.093 10.705 0.610 -3.710 -2.627 0.293 1.378 -0.849	0.000 0.000 0.542 0.000 0.009 0.769 0.168 0.396	0.712 0.267 -0.283 -0.916 -0.817 -0.450 -0.244 -1.474	0.838 0.387 0.539 -0.283 -0.119 0.608 1.401 0.583
polintr trust_political ~ polintr hope_political ~ dscrrce dscrntn dscrrlg dscrlng dscretn dscrage dscrgnd	0.775 0.327 0.128 -0.599 -0.468 0.079 0.578 -0.445 1.052	0.032 0.031 0.210 0.162 0.178 0.270 0.420 0.525 0.442	24.093 10.705 0.610 -3.710 -2.627 0.293 1.378 -0.849 2.379	0.000 0.000 0.542 0.000 0.009 0.769 0.168 0.396 0.017	0.712 0.267 -0.283 -0.916 -0.817 -0.450 -0.244 -1.474 0.185	0.838 0.387 0.539 -0.283 -0.119 0.608 1.401 0.583 1.918
polintr trust_political ~ polintr hope_political ~ dscrrce dscrntn dscrrlg dscrlng dscretn dscrage dscrgnd dscrsex	0.775 0.327 0.128 -0.599 -0.468 0.079 0.578 -0.445 1.052 0.281	0.032 0.031 0.210 0.162 0.178 0.270 0.420 0.525 0.442 0.302	24.093 10.705 0.610 -3.710 -2.627 0.293 1.378 -0.849 2.379 0.929	0.000 0.000 0.542 0.000 0.009 0.769 0.168 0.396 0.017 0.353	0.712 0.267 -0.283 -0.916 -0.817 -0.450 -0.244 -1.474 0.185 -0.312	0.838 0.387 0.539 -0.283 -0.119 0.608 1.401 0.583 1.918 0.874
polintr trust_political ~ polintr hope_political ~ dscrrce dscrntn dscrrlg dscrlng dscretn dscrage dscrgnd dscrsex dscrdsb dscroth	0.775 0.327 0.128 -0.599 -0.468 0.079 0.578 -0.445 1.052 0.281 -0.303	0.032 0.031 0.210 0.162 0.178 0.270 0.420 0.525 0.442 0.302 0.402	24.093 10.705 0.610 -3.710 -2.627 0.293 1.378 -0.849 2.379 0.929 -0.752	0.000 0.000 0.542 0.000 0.009 0.769 0.168 0.396 0.017 0.353 0.452	0.712 0.267 -0.283 -0.916 -0.817 -0.450 -0.244 -1.474 0.185 -0.312 -1.091	0.838 0.387 0.539 -0.283 -0.119 0.608 1.401 0.583 1.918 0.874 0.486
polintr trust_political ~ polintr hope_political ~ dscrrce dscrntn dscrrlg dscrlng dscretn dscrage dscrgnd dscrsex dscrdsb dscroth trust_social ~	0.775 0.327 0.128 -0.599 -0.468 0.079 0.578 -0.445 1.052 0.281 -0.303 -0.061	0.032 0.031 0.210 0.162 0.178 0.270 0.420 0.525 0.442 0.302 0.402 0.194	24.093 10.705 0.610 -3.710 -2.627 0.293 1.378 -0.849 2.379 0.929 -0.752 -0.314	0.000 0.000 0.542 0.000 0.009 0.769 0.168 0.396 0.017 0.353 0.452 0.753	0.712 0.267 -0.283 -0.916 -0.817 -0.450 -0.244 -1.474 0.185 -0.312 -1.091 -0.441	0.838 0.387 0.539 -0.283 -0.119 0.608 1.401 0.583 1.918 0.874 0.486 0.319
polintr trust_political ~ polintr hope_political ~ dscrrce dscrntn dscrrlg dscrlng dscretn dscrage dscrgnd dscrsex dscrdsb dscroth trust_social ~ dscrrce	0.775 0.327 0.128 -0.599 -0.468 0.079 0.578 -0.445 1.052 0.281 -0.303 -0.061 -0.331	0.032 0.031 0.210 0.162 0.178 0.270 0.420 0.525 0.442 0.302 0.402 0.194 0.203	24.093 10.705 0.610 -3.710 -2.627 0.293 1.378 -0.849 2.379 0.929 -0.752 -0.314 -1.635	0.000 0.000 0.542 0.000 0.009 0.769 0.168 0.396 0.017 0.353 0.452 0.753	0.712 0.267 -0.283 -0.916 -0.817 -0.450 -0.244 -1.474 0.185 -0.312 -1.091 -0.441 -0.729	0.838 0.387 0.539 -0.283 -0.119 0.608 1.401 0.583 1.918 0.874 0.486 0.319 0.066
polintr trust_political ~ polintr hope_political ~ dscrrce dscrntn dscrrlg dscrlng dscretn dscrage dscrgnd dscrsex dscrdsb dscroth trust_social ~ dscrrce dscrntn	0.775 0.327 0.128 -0.599 -0.468 0.079 0.578 -0.445 1.052 0.281 -0.303 -0.061 -0.331 -0.683	0.032 0.031 0.210 0.162 0.178 0.270 0.420 0.525 0.442 0.302 0.402 0.194 0.203 0.169	24.093 10.705 0.610 -3.710 -2.627 0.293 1.378 -0.849 2.379 0.929 -0.752 -0.314 -1.635 -4.043	0.000 0.000 0.542 0.000 0.009 0.769 0.168 0.396 0.017 0.353 0.452 0.753 0.102 0.000	0.712 0.267 -0.283 -0.916 -0.817 -0.450 -0.244 -1.474 0.185 -0.312 -1.091 -0.441 -0.729 -1.014	0.838 0.387 0.539 -0.283 -0.119 0.608 1.401 0.583 1.918 0.874 0.486 0.319 0.066 -0.352
polintr trust_political ~ polintr hope_political ~ dscrrce dscrntn dscrlg dscrlng dscretn dscrage dscrgnd dscrsex dscrdsb dscroth trust_social ~ dscrrce dscrntn dscrrlg	0.775 0.327 0.128 -0.599 -0.468 0.079 0.578 -0.445 1.052 0.281 -0.303 -0.061 -0.331 -0.683 -0.434	0.032 0.031 0.210 0.162 0.178 0.270 0.420 0.525 0.442 0.302 0.402 0.194 0.203 0.169 0.185	24.093 10.705 0.610 -3.710 -2.627 0.293 1.378 -0.849 2.379 0.929 -0.752 -0.314 -1.635 -4.043 -2.347	0.000 0.000 0.542 0.000 0.009 0.769 0.168 0.396 0.017 0.353 0.452 0.753 0.102 0.000 0.019	0.712 0.267 -0.283 -0.916 -0.817 -0.450 -0.244 -1.474 0.185 -0.312 -1.091 -0.441 -0.729 -1.014 -0.797	0.838 0.387 0.539 -0.283 -0.119 0.608 1.401 0.583 1.918 0.874 0.486 0.319 0.066 -0.352 -0.072
polintr trust_political ~ polintr hope_political ~ dscrrce dscrntn dscrrlg dscrlng dscretn dscrage dscrgnd dscrsex dscrdsb dscroth trust_social ~ dscrrce dscrntn dscrrlg dscrntn dscrrlg	0.775 0.327 0.128 -0.599 -0.468 0.079 0.578 -0.445 1.052 0.281 -0.303 -0.061 -0.331 -0.683 -0.434 -0.198	0.032 0.031 0.210 0.162 0.178 0.270 0.420 0.525 0.442 0.302 0.402 0.194 0.203 0.169 0.185 0.309	24.093 10.705 0.610 -3.710 -2.627 0.293 1.378 -0.849 2.379 0.929 -0.752 -0.314 -1.635 -4.043 -2.347 -0.640	0.000 0.000 0.542 0.000 0.009 0.769 0.168 0.396 0.017 0.353 0.452 0.753 0.102 0.000 0.019 0.522	0.712 0.267 -0.283 -0.916 -0.817 -0.450 -0.244 -1.474 0.185 -0.312 -1.091 -0.441 -0.729 -1.014 -0.797 -0.803	0.838 0.387 0.539 -0.283 -0.119 0.608 1.401 0.583 1.918 0.874 0.486 0.319 0.066 -0.352 -0.072 0.408
polintr trust_political ~ polintr hope_political ~ dscrrce dscrntn dscrrlg dscrlng dscretn dscrage dscrgnd dscrsex dscrdsb dscroth trust_social ~ dscrrce dscrntn dscrrlg dscrntn dscrrlg	0.775 0.327 0.128 -0.599 -0.468 0.079 0.578 -0.445 1.052 0.281 -0.303 -0.061 -0.331 -0.683 -0.434 -0.198 -0.061	0.032 0.031 0.210 0.162 0.178 0.270 0.420 0.525 0.442 0.302 0.402 0.194 0.203 0.169 0.185 0.309 0.371	24.093 10.705 0.610 -3.710 -2.627 0.293 1.378 -0.849 2.379 0.929 -0.752 -0.314 -1.635 -4.043 -2.347 -0.640 -0.164	0.000 0.000 0.542 0.000 0.009 0.769 0.168 0.396 0.017 0.353 0.452 0.753 0.102 0.000 0.019 0.522 0.870	0.712 0.267 -0.283 -0.916 -0.817 -0.450 -0.244 -1.474 0.185 -0.312 -1.091 -0.441 -0.729 -1.014 -0.797 -0.803 -0.788	0.838 0.387 0.539 -0.283 -0.119 0.608 1.401 0.583 1.918 0.874 0.486 0.319 0.066 -0.352 -0.072 0.408 0.666
polintr trust_political ~ polintr hope_political ~ dscrrce dscrntn dscrlg dscrlng dscretn dscrage dscrgnd dscrsex dscrdsb dscroth trust_social ~ dscrrce dscrntn dscrrlg dscrlng dscretn	0.775 0.327 0.128 -0.599 -0.468 0.079 0.578 -0.445 1.052 0.281 -0.303 -0.061 -0.331 -0.683 -0.434 -0.198 -0.061 -0.601	0.032 0.031 0.210 0.162 0.178 0.270 0.420 0.525 0.442 0.302 0.402 0.194 0.203 0.169 0.185 0.309 0.371 0.350	24.093 10.705 0.610 -3.710 -2.627 0.293 1.378 -0.849 2.379 0.929 -0.752 -0.314 -1.635 -4.043 -2.347 -0.640 -0.164 -1.718	0.000 0.000 0.542 0.000 0.009 0.769 0.168 0.396 0.017 0.353 0.452 0.753 0.102 0.000 0.019 0.522 0.870 0.086	0.712 0.267 -0.283 -0.916 -0.817 -0.450 -0.244 -1.474 0.185 -0.312 -1.091 -0.441 -0.729 -1.014 -0.797 -0.803 -0.788 -1.287	0.838 0.387 0.539 -0.283 -0.119 0.608 1.401 0.583 1.918 0.874 0.486 0.319 0.066 -0.352 -0.072 0.408 0.666 0.085
polintr trust_political ~ polintr hope_political ~ dscrrce dscrntn dscrlg dscrlng dscretn dscrage dscrgnd dscrsex dscrdsb dscroth trust_social ~ dscrrce dscrntn dscrrce dscrntn dscrrlg dscretn dscrrdg dscretn	0.775 0.327 0.128 -0.599 -0.468 0.079 0.578 -0.445 1.052 0.281 -0.303 -0.061 -0.331 -0.683 -0.434 -0.198 -0.061 -0.601 0.557	0.032 0.031 0.210 0.162 0.178 0.270 0.420 0.525 0.442 0.302 0.402 0.194 0.203 0.169 0.185 0.309 0.371 0.350 0.419	24.093 10.705 0.610 -3.710 -2.627 0.293 1.378 -0.849 2.379 0.929 -0.752 -0.314 -1.635 -4.043 -2.347 -0.640 -0.164 -1.718 1.327	0.000 0.000 0.542 0.000 0.009 0.769 0.168 0.396 0.017 0.353 0.452 0.753 0.102 0.000 0.019 0.522 0.870 0.086 0.184	0.712 0.267 -0.283 -0.916 -0.817 -0.450 -0.244 -1.474 0.185 -0.312 -1.091 -0.441 -0.729 -1.014 -0.797 -0.803 -0.788 -1.287 -0.265	0.838 0.387 0.539 -0.283 -0.119 0.608 1.401 0.583 1.918 0.874 0.486 0.319 0.066 -0.352 -0.072 0.408 0.666 0.085 1.379
polintr trust_political ~ polintr hope_political ~ dscrrce dscrntn dscrrlg dscrlng dscretn dscrage dscrgnd dscrsex dscrdsb dscroth trust_social ~ dscrrce dscrntn dscrrlg dscrlng dscretn	0.775 0.327 0.128 -0.599 -0.468 0.079 0.578 -0.445 1.052 0.281 -0.303 -0.061 -0.331 -0.683 -0.434 -0.198 -0.061 -0.601 0.557 0.131	0.032 0.031 0.210 0.162 0.178 0.270 0.420 0.525 0.442 0.302 0.402 0.194 0.203 0.169 0.185 0.309 0.371 0.350	24.093 10.705 0.610 -3.710 -2.627 0.293 1.378 -0.849 2.379 0.929 -0.752 -0.314 -1.635 -4.043 -2.347 -0.640 -0.164 -1.718	0.000 0.000 0.542 0.000 0.009 0.769 0.168 0.396 0.017 0.353 0.452 0.753 0.102 0.000 0.019 0.522 0.870 0.086	0.712 0.267 -0.283 -0.916 -0.817 -0.450 -0.244 -1.474 0.185 -0.312 -1.091 -0.441 -0.729 -1.014 -0.797 -0.803 -0.788 -1.287	0.838 0.387 0.539 -0.283 -0.119 0.608 1.401 0.583 1.918 0.874 0.486 0.319 0.066 -0.352 -0.072 0.408 0.666 0.085
polintr trust_political ~ polintr hope_political ~ dscrrce dscrntn dscrlg dscrlng dscretn dscrage dscrgnd dscrsex dscrdsb dscroth trust_social ~ dscrrce dscrntn dscrrlg dscrlng dscretn	0.775 0.327 0.128 -0.599 -0.468 0.079 0.578 -0.445 1.052 0.281 -0.303 -0.061 -0.331 -0.683 -0.434 -0.198 -0.061 -0.601 0.557	0.032 0.031 0.210 0.162 0.178 0.270 0.420 0.525 0.442 0.302 0.402 0.194 0.203 0.169 0.185 0.309 0.371 0.350 0.419	24.093 10.705 0.610 -3.710 -2.627 0.293 1.378 -0.849 2.379 0.929 -0.752 -0.314 -1.635 -4.043 -2.347 -0.640 -0.164 -1.718 1.327	0.000 0.000 0.542 0.000 0.009 0.769 0.168 0.396 0.017 0.353 0.452 0.753 0.102 0.000 0.019 0.522 0.870 0.086 0.184	0.712 0.267 -0.283 -0.916 -0.817 -0.450 -0.244 -1.474 0.185 -0.312 -1.091 -0.441 -0.729 -1.014 -0.797 -0.803 -0.788 -1.287 -0.265	0.838 0.387 0.539 -0.283 -0.119 0.608 1.401 0.583 1.918 0.874 0.486 0.319 0.066 -0.352 -0.072 0.408 0.666 0.085 1.379
polintr trust_political ~ polintr hope_political ~ dscrrce dscrntn dscrlg dscrlng dscretn dscrage dscrgnd dscrsex dscrdsb dscroth trust_social ~ dscrrce dscrntn dscrrlg dscrtn dscrece dscrntn dscrece dscrntn dscrrlg dscretn dscrese dscroth	0.775 0.327 0.128 -0.599 -0.468 0.079 0.578 -0.445 1.052 0.281 -0.303 -0.061 -0.331 -0.683 -0.434 -0.198 -0.061 -0.601 0.557 0.131	0.032 0.031 0.210 0.162 0.178 0.270 0.420 0.525 0.442 0.302 0.402 0.194 0.203 0.169 0.185 0.309 0.371 0.350 0.419 0.329	24.093 10.705 0.610 -3.710 -2.627 0.293 1.378 -0.849 2.379 0.929 -0.752 -0.314 -1.635 -4.043 -2.347 -0.640 -0.164 -1.718 1.327 0.398	0.000 0.000 0.542 0.000 0.009 0.769 0.168 0.396 0.017 0.353 0.452 0.753 0.102 0.000 0.019 0.522 0.870 0.086 0.184 0.691	0.712 0.267 -0.283 -0.916 -0.817 -0.450 -0.244 -1.474 0.185 -0.312 -1.091 -0.441 -0.729 -1.014 -0.797 -0.803 -0.788 -1.287 -0.265 -0.514	0.838 0.387 0.539 -0.283 -0.119 0.608 1.401 0.583 1.918 0.874 0.486 0.319 0.066 -0.352 -0.072 0.408 0.666 0.085 1.379 0.776

dscroth trust_political	-0.2	285 0.1	197 -1.	446 0	. 148	-0.672	0.101
dscrrce	0.4	.17 0 1	199 2.	097 0	. 036	0.027	0.806
dscrntn	0.4				.004	0.143	0.773
dscrrlg	-0.5					-0.834	-0.208
dscrlng	0.6					0.173	1.094
dscretn	-0.6		300 -2.			-1.187	-0.012
dscrage	-0.7		393 -2.			-1.556	-0.016
dscrgnd	0.4	91 0.3	386 1.5			-0.266	1.247
dscrsex	-0.4	23 0.2	244 -1.	735 0.	.083	-0.900	0.055
dscrdsb	-0.6	0.4	172 -1.	275 0	. 202	-1.528	0.324
dscroth	-0.2	.63 0.1	194 -1.	355 0	. 175	-0.643	0.117
optimism_politica	al ~						
dscrrce	-0.1	.83 0.2	212 -0.8	864 0	. 387	-0.599	0.232
dscrntn	-0.6		198 -3.			-0.988	-0.213
dscrrlg	0.1					-0.170	0.560
dscring	-0.7		269 -2.0			-1.247	-0.194
dscretn	-0.4		308 -1.3			-1.247	0.189
dscrage	-0.2		610 -0.3			-1.432	
dscrgnd	-0.8					-1.574	
dscrsex	-0.3					-1.165	
dscrdsb	-0.1					-0.897	
dscroth	-0.6	37 0.2	237 -2.	686 0.	.007	-1.102	-0.172
variances:				- 4 1 13			
	Estimate	Std.Err	z-value	P(> z)) ci.lo	wer ci.	upper
hope_political ~~							
.trust_social	0.259	0.030				201	0.318
<pre>.trust_politicl</pre>	0.387	0.031	12.361	0.000	0.	325	0.448
trust_social ~~							
.trust_politicl	0.546	0.027	20.383	0.000	0.	493	0.598
tercepts:							
		Std.Err	z-value	P(> z)	ci.low		
.psppsgva	0.000	0.077	0.000	1.000	-0.1	52 ().152
.actrolga	0.000	0.080	0.000	1.000	-0.1	56 (.156
.psppipla	0.000	0.077	0.000	1.000	-0.1	50 ().150
.cptppola	0.000	0.077	0.000	1.000	-0.1	51 ().151
.ppltrst	4.258	0.138	30.845	0.000	3.9		1.528
.pplfair	5.247	0.124	42.467	0.000	5.0		5.489
.pplhlp	4.216	0.133	31.671	0.000	3.9		1.477
.trstprl	3.430	0.135	25.312	0.000	3.1		3.695
-	4.396	0.133	29.637	0.000	4.1		1.687
.trstlgl							
.trstplc	5.683	0.132	42.943	0.000	5.4		5.942
.trstplt	2.842	0.137	20.813	0.000	2.5		3.110
.trstprt	2.866	0.136	21.021	0.000	2.5		3.133
.hope_political	0.000				0.0		0.000
.trust_social	0.000				0.0	00 (0.000
.trust_politicl	0.000				0.0	00 (0.000
.optimism_pltcl	0.000				0.0	00 (0.000
resholds:							
	Estimate	Std.Err	z-value	P(> z)	ci.low	er ci.ı	ipper

```
0.171
                                                           0.171
                                                                    0.171
    psppsgva|t1
                      1.253
                                                           1.253
   psppsgva|t2
                                                                    1.253
                      2.622
                                                           2.622
                                                                    2,622
   psppsgva|t3
   psppsgva|t4
                      3.366
                                                           3.366
                                                                    3.366
   actrolga|t1
                      1.287
                                                           1.287
                                                                    1.287
   actrolga|t2
                      2.317
                                                           2.317
                                                                    2.317
   actrolga|t3
                      3.473
                                                           3.473
                                                                    3.473
   actrolga|t4
                      4.253
                                                           4.253
                                                                    4.253
                      0.345
                                                           0.345
                                                                    0.345
   psppipla|t1
   psppipla|t2
                      1.549
                                                           1.549
                                                                    1.549
   psppipla|t3
                      2.735
                                                           2.735
                                                                    2.735
   psppipla|t4
                      4.198
                                                           4.198
                                                                    4.198
                      1.017
                                                           1.017
                                                                    1.017
    cptppola|t1
                                                                    2.017
    cptppola|t2
                      2.017
                                                           2.017
    cptppola|t3
                      3.148
                                                           3.148
                                                                    3.148
    cptppola|t4
                      4.052
                                                           4.052
                                                                    4.052
Variances:
                   Estimate Std.Err z-value P(>|z|) ci.lower ci.upper
   .hope_political
                      1.000
                                                           1.000
                                                                    1.000
   .trust_social
                      1.000
                                                           1.000
                                                                    1.000
                      1.000
                                                                    1.000
   .trust_politicl
                                                           1.000
   .optimism_pltcl
                      1.000
                                                           1.000
                                                                    1.000
                      0.314
                                                                    0.314
                                                           0.314
   .psppsgva
   .actrolga
                      0.189
                                                           0.189
                                                                    0.189
   .psppipla
                      0.404
                                                           0.404
                                                                    0.404
                      0.405
                                                           0.405
                                                                    0.405
   .cptppola
   .ppltrst
                      1.964
                               0.135
                                       14.544
                                                  0.000
                                                           1.699
                                                                    2.229
                               0.093
                                                  0.000
   .pplfair
                      2.106
                                       22.547
                                                           1.923
                                                                    2.290
                      2.361
                               0.111
                                       21.204
                                                  0.000
                                                           2.142
                                                                    2.579
   .pplhlp
                                                  0.000
   .trstprl
                      1.765
                               0.066
                                       26.689
                                                           1.635
                                                                    1.894
                      2.481
                               0.097
                                       25.687
                                                  0.000
                                                           2.292
                                                                    2.670
   .trstlgl
   .trstplc
                      2.472
                               0.087
                                       28.298
                                                 0.000
                                                           2.301
                                                                    2.643
                               0.066
   .trstplt
                      1.158
                                      17.524
                                                  0.000
                                                           1.028
                                                                    1.287
                      1.350
                               0.071
                                       19.120
                                                  0.000
                                                           1.212
                                                                    1.488
   .trstprt
Scales y*:
                   Estimate Std.Err z-value P(>|z|) ci.lower ci.upper
   psppsgva
                      1.000
                                                           1.000
                                                                    1.000
   actrolga
                      1.000
                                                           1.000
                                                                    1.000
                      1.000
                                                           1.000
                                                                    1.000
   psppipla
    cptppola
                      1.000
                                                           1.000
                                                                    1.000
# o %>% print()
o %>% cat()
##
```

##	Standard Errors	Robust.sem									
	Latent Variables:										
##	Latent Valiables.	Estimate	Std.Err	z-value	P(> 7)	ci.lower	ci unner				
##	hope_political =~	LBCIMACC	Dua.LII	Z varuc	1 (> 2)	CI.IOWCI	cr.upper				
##	psppsgva	0.588	0.026	22.591	0.000	0.537	0.639				
##	actrolga	0.767	0.024	31.405	0.000	0.719	0.815				
##	psppipla	0.660	0.021	31.081	0.000	0.618	0.702				
##	cptppola	0.658	0.025	26.822	0.000	0.610	0.706				
##	trust_social =~										
##	ppltrst	1.554	0.063	24.822	0.000	1.432	1.677				
##	pplfair	1.113	0.048	22.979	0.000	1.018	1.207				
##	pplhlp	1.253	0.057	21.963	0.000	1.141	1.365				
##	trust_political =~										
##	trstprl	1.484	0.052	28.337	0.000	1.381	1.586				
##	trstlgl	1.480	0.058	25.582	0.000	1.366	1.593				
##	trstplc	1.170	0.048	24.126	0.000	1.075	1.265				
##	trstplt	1.572	0.053	29.687	0.000	1.468					
##	trstprt	1.507	0.056	27.018	0.000	1.397	1.616				
##	optimism_political =					0.540					
##	psppsgva	0.583	0.033	17.557	0.000	0.518	0.648				
##	actrolga	-0.472	0.046	-10.354	0.000	-0.561	-0.382				
##	psppipla	0.401	0.034	11.728	0.000	0.334	0.468				
## ##	cptppola	-0.403 0.794	0.038 0.058	-10.588 13.674	0.000	-0.478 0.680	-0.328 0.907				
##	trstprl trstlgl	0.794	0.063	10.378	0.000	0.529	0.775				
##	trstplc	0.032	0.003	7.507	0.000	0.329	0.773				
##	trstplt	0.933	0.059	15.805	0.000	0.233	1.049				
##	trstprt	0.921	0.061	15.154	0.000	0.802	1.040				
##	or Bopi o	0.021	0.001	10.101	0.000	0.002	1.010				
##	Regressions:										
##	S	Estimate	Std.Err	z-value	P(> z)	ci.lower o	ci.upper				
##	hope_political ~										
##	polintr	0.775	0.032	24.093	0.000	0.712	0.838				
##	<pre>trust_political ~</pre>										
##	polintr	0.327	0.031	10.705	0.000	0.267	0.387				
##	hope_political ~										
##	dscrrce	0.128	0.210	0.610	0.542	-0.283	0.539				
##	dscrntn	-0.599	0.162	-3.710	0.000	-0.916	-0.283				
##	dscrrlg	-0.468	0.178	-2.627	0.009	-0.817	-0.119				
##	dscrlng	0.079	0.270	0.293	0.769	-0.450	0.608				
##	dscretn	0.578	0.420	1.378	0.168	-0.244	1.401				
##	dscrage	-0.445	0.525	-0.849	0.396	-1.474	0.583				
##	dscrgnd	1.052	0.442	2.379	0.017	0.185	1.918				
##	dscrsex	0.281	0.302	0.929	0.353	-0.312	0.874				
##	dscrdsb	-0.303	0.402	-0.752	0.452	-1.091	0.486				
##	dscroth	-0.061	0.194	-0.314	0.753	-0.441	0.319				
##	trust_social ~	_0_221	0 000	_1 625	0 100	-0.720	0 066				
##	dscrrce	-0.331 -0.683	0.203 0.169	-1.635 -4.043	0.102 0.000	-0.729 -1.014	0.066				
## ##	dscrntn dscrrlg	-0.683 -0.434	0.169	-4.043 -2.347	0.000	-1.014 -0.797	-0.352 -0.072				
##	dscring	-0.434 -0.198	0.105	-2.347 -0.640	0.522	-0.797	0.408				
##	dscretn	-0.061	0.371	-0.164	0.870	-0.788	0.666				
##	dscrage	-0.601	0.350	-1.718	0.086	-1.287	0.085				
		0.001	3.000		3.000	,					

##	dscrgnd	0.5					.265	1.379
##	dscrsex	0.1					.514	0.776
##	dscrdsb	-0.3					.182	0.510
##	dscroth	-0.2	85 0.1	197 -1.	.446 C).148 -C	.672	0.101
##	trust_political ~							
##	dscrrce	0.4					.027	0.806
##	dscrntn	0.4					.143	0.773
##	dscrrlg	-0.5			263 0		.834	-0.208
##	dscrlng	0.6					.173	1.094
##	dscretn	-0.6					.187	-0.012
##	dscrage	-0.7	86 0.3	393 -2.	.001 0	0.045 -1	.556	-0.016
##	dscrgnd	0.4	91 0.3	386 1.	271 0	.204 -0	.266	1.247
##	dscrsex	-0.4	23 0.2	244 -1.	735 0	.083 -0	.900	0.055
##	dscrdsb	-0.6	02 0.4	472 -1.	.275 0	.202 -1	.528	0.324
##	dscroth	-0.2	63 0.3	194 -1.	355 0).175 -C	.643	0.117
##	optimism_politica	al ~						
##	dscrrce	-0.1	83 0.2	212 -0.	864 0	.387 -0	.599	0.232
##	dscrntn	-0.6	01 0.3	198 -3.	.040	.002 -0	.988	-0.213
##	dscrrlg	0.1	95 0.3	186 1.	.045	.296 -0	.170	0.560
##	dscrlng	-0.7	21 0.5	269 -2.	682 0	.007 -1	.247	-0.194
##	dscretn	-0.4	15 0.3	308 -1.	346 0	.178 -1	.019	0.189
##	dscrage	-0.2	36 0.6	610 -0.	386 0	.700 -1	.432	0.961
##	dscrgnd	-0.8	80 0.3	354 -2.	489 0	.013 -1	.574	-0.187
##	dscrsex	-0.3	38 0.4	422 -0.	803 0	.422 -1	.165	0.488
##	dscrdsb	-0.1	47 0.3	383 -0.	384 0	.701 -0	.897	0.603
##	dscroth	-0.6	37 0.2	237 -2.	.686 C	.007 -1	.102	-0.172
##								
##	Covariances:							
##		Estimate	Std.Err	z-value	P(> z) ci.lowe	r ci.	upper
##	.hope_political ~~	•						
##	$.trust_social$	0.259	0.030	8.676	0.00	0.20	1	0.318
##	$.trust_politicl$	0.387	0.031	12.361	0.00	0.32	.5	0.448
##	.trust_social ~~							
##	$.trust_politicl$	0.546	0.027	20.383	0.00	0.49	3	0.598
##								
##	Intercepts:							
##		Estimate	Std.Err	z-value	P(> z)	ci.lower	ci.u	pper
##	.psppsgva	0.000	0.077	0.000	1.000	-0.152	. 0	.152
##	.actrolga	0.000	0.080	0.000	1.000	-0.156	0	.156
##	.psppipla	0.000	0.077	0.000	1.000	-0.150	0	.150
##	$.\mathtt{cptppola}$	0.000	0.077	0.000	1.000	-0.151	. 0	. 151
##	.ppltrst	4.258	0.138	30.845	0.000	3.987	4	.528
##	.pplfair	5.247	0.124	42.467	0.000	5.005	5 5	.489
##	.pplhlp	4.216	0.133	31.671	0.000	3.955	4	.477
##	.trstprl	3.430	0.135	25.312	0.000	3.164	: 3	.695
##	.trstlgl	4.396	0.148	29.637	0.000	4.105	4	.687
##	.trstplc	5.683	0.132	42.943	0.000	5.423	5	.942
##	.trstplt	2.842	0.137	20.813	0.000	2.574	: 3	.110
##	.trstprt	2.866	0.136	21.021	0.000	2.599		.133
##	.hope_political	0.000				0.000		.000
##	.trust_social	0.000				0.000		.000
##	.trust_politicl	0.000				0.000		.000
##	.optimism_pltcl	0.000				0.000		.000
##	- -							

```
## Thresholds:
##
                       Estimate Std.Err z-value P(>|z|) ci.lower ci.upper
##
                          0.171
       psppsgva|t1
                                                                 0.171
                                                                          0.171
##
                          1.253
                                                                 1.253
                                                                          1.253
       psppsgva|t2
                          2.622
                                                                 2.622
##
       psppsgvalt3
                                                                          2.622
##
       psppsgva|t4
                          3.366
                                                                 3.366
                                                                          3.366
##
       actrolga|t1
                          1.287
                                                                 1.287
                                                                          1.287
##
       actrolga|t2
                          2.317
                                                                 2.317
                                                                          2.317
       actrolga|t3
##
                          3.473
                                                                 3.473
                                                                          3.473
##
       actrolga|t4
                          4.253
                                                                 4.253
                                                                          4.253
##
       psppipla|t1
                          0.345
                                                                 0.345
                                                                          0.345
##
                          1.549
                                                                 1.549
                                                                          1.549
       psppipla|t2
##
       psppipla|t3
                          2.735
                                                                 2.735
                                                                          2.735
##
       psppipla|t4
                          4.198
                                                                 4.198
                                                                          4.198
##
       cptppola|t1
                          1.017
                                                                 1.017
                                                                          1.017
##
       cptppola|t2
                          2.017
                                                                 2.017
                                                                          2.017
##
                          3.148
                                                                3.148
                                                                          3.148
       cptppola|t3
##
       cptppola|t4
                          4.052
                                                                 4.052
                                                                          4.052
##
## Variances:
##
                       Estimate Std.Err z-value P(>|z|) ci.lower ci.upper
##
      .hope_political
                          1.000
                                                                 1.000
                                                                          1.000
##
                          1.000
                                                                 1.000
                                                                          1.000
      .trust_social
##
      .trust politicl
                          1.000
                                                                 1.000
                                                                          1.000
##
                                                                          1.000
      .optimism_pltcl
                          1.000
                                                                 1.000
##
      .psppsgva
                          0.314
                                                                 0.314
                                                                          0.314
##
      .actrolga
                          0.189
                                                                 0.189
                                                                          0.189
##
                          0.404
                                                                 0.404
                                                                          0.404
      .psppipla
##
      .cptppola
                          0.405
                                                                 0.405
                                                                          0.405
##
                          1.964
                                    0.135
                                            14.544
                                                       0.000
      .ppltrst
                                                                 1.699
                                                                          2.229
##
                                    0.093
      .pplfair
                          2.106
                                            22.547
                                                       0.000
                                                                 1.923
                                                                          2.290
##
      .pplhlp
                          2.361
                                    0.111
                                            21.204
                                                       0.000
                                                                 2.142
                                                                          2.579
##
                                    0.066
                                            26.689
                                                       0.000
                                                                 1.635
                                                                          1.894
      .trstprl
                          1.765
##
      .trstlgl
                          2.481
                                    0.097
                                            25.687
                                                       0.000
                                                                 2.292
                                                                          2.670
                                    0.087
                                            28.298
                                                                 2.301
##
      .trstplc
                          2.472
                                                       0.000
                                                                          2.643
##
      .trstplt
                          1.158
                                    0.066
                                            17.524
                                                       0.000
                                                                 1.028
                                                                          1.287
##
      .trstprt
                          1.350
                                    0.071
                                            19.120
                                                       0.000
                                                                 1.212
                                                                          1.488
##
## Scales y*:
##
                       Estimate Std.Err z-value P(>|z|) ci.lower ci.upper
##
                          1.000
                                                                 1.000
                                                                          1.000
       psppsgva
                          1.000
                                                                 1.000
                                                                          1.000
##
       actrolga
##
                          1.000
                                                                 1.000
                                                                          1.000
       psppipla
##
                          1.000
                                                                 1.000
                                                                          1.000
       cptppola
# semTable(f,
           columns = c("estse", "p"),
#
#
           fits = c("chisq", "rmsea"),
#
           file = file.path(tempdir, "fit1.t1.html"),
#
           # varLabels = c("x1" = "hello"),
#
           tupe = "html".
           print.results = TRUE)
```