

# ICON8002 SNA

## R Markdown

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When you click the **Knit** button a document will be generated that includes both content as well as the output of any embedded R code chunks within the document. You can embed an R code chunk like this:

## Network attributes

- Diameter

```
## [1] 8
```

- Reciprocity

```
## [1] 0.03809524
```

- Number of edges

```
## [1] 315
```

- Number of egos

```
## [1] 100
```

- Edge density

```
## [1] 0.03181818
```

- Closeness

```
##              closeness
## Solomon, Jason    0.001862197
## Gonzales, Cesar   0.001672241
## Chinburg, Jacob   0.001577287
## Suits, Brian       0.001483680
## Porcelli, Isaac    0.001745201
## Ammon, Garret      0.001652893
## Peterson, Jeanrei  0.001798561
## Lobato, Marco      0.001782531
## Steele, William    0.001855288
## Baker, Phaezon     0.001760563
## Chia, Marco        0.001700680
## Ryan, Derek        0.001587302
## Tesfai, Henry      0.001700680
## Cruz, Dominic      0.001677852
## Gomez, Senna       0.001919386
## Molalegne, Tevyn   0.001618123
## Ontiveros, Cheridan 0.001700680
## Pucherelli, Dominic 0.001848429
## Seeley, Marcus     0.001692047
## Bautista, Maria    0.001821494
## Trujillo, Corinna  0.001612903
```

## Mebane, Jeremy	0.001642036
## Gracia-Cazares, John	0.001801802
## Jones, Tricia	0.001751313
## King, Gabriel	0.001589825
## Martinez, Alejandra	0.001855288
## Blankenbeckler, Brock	0.001666667
## Rice, Chelsi	0.001751313
## Vigil, Fabian	0.001666667
## D Alessandro, Cassidy	0.001540832
## Bellinger, Nicholas	0.001798561
## Mejia-Bernal, Jairo	0.001811594
## Rosenblatt, Mollie	0.001831502
## Butler-Stowers, Exaviah	0.001890359
## Mcelroy, Jose	0.001808318
## Lambert, Michael	0.001751313
## Ham, Marsean	0.001821494
## De La Rosa, Joseph	0.001757469
## Glenn, Morgan	0.001398601
## Wickware, Deshaun	0.001727116
## Hernandez, Adrieanna	0.001851852
## Streib, Holly	0.001766784
## Combs, Treasure	0.001602564
## Amaro Sandoval, Nicolas	0.001811594
## Garvin, Christian	0.001886792
## Partee, Catherine	0.001663894
## Muniz, Matthew	0.001745201
## Florian, Sarah	0.001302083
## Williams, Kason	0.001886792
## Apodaca, Sydni	0.001602564
## Osborn, Joshua	0.001628664
## Smolarek, Eiman	0.001618123
## Barrera, Jorion	0.001672241
## Krabach, Nicholas	0.001769912
## Woodard, Zoe	0.001700680
## Savedra-Gonzales, Laura	0.001834862
## Boland, Samuel	0.001438849
## Mannon, Ishmyla	0.001883239
## Montanez, Erick	0.001841621
## Hodgson, Spencer	0.001760563
## Mondragon, Malcolm	0.001908397
## Soto, Joseph	0.001620746
## Billat, Levi	0.001464129
## Scott, Joel	0.002032520
## Garcia, Juanmanuel	0.001605136
## Woodward, Kyle	0.001805054
## Drakeford, Jasmine	0.001612903
## Resendez, Jacob	0.001773050
## Schneider, Justin	0.001552795
## Johnson, Unikka	0.001499250
## Alvarado Nava, Alyssa	0.001926782
## Ellwein, Jacob-Allen	0.001788909
## Navarro, Michael	0.001445087
## Rivera, Fernando	0.001615509
## Fania, John	0.001919386

## Jones, Traevena	0.001600000
## Saenz, Suheily	0.001666667
## Ledonne, Lnay	0.001930502
## Young, Wilfried	0.001694915
## Salazar, Gabrielle	0.001597444
## Scholten, Kitiara	0.001669449
## Wilson, Bailie	0.001689189
## Gonzalez Vargas, Issac	0.001700680
## Dunlap, Sarah	0.001773050
## Patton, Micholette	0.001792115
## Sandoval, Angelique	0.001814882
## Coleman, Kimberly	0.001506024
## Rosechild, Juan	0.001727116
## Barrientos, Luis	0.001838235
## Skublickas, Cody	0.001610306
## Hooks, Terrence	0.001733102
## Fierro, Nicolas	0.001879699
## Baker, Logan	0.001650165
## Hamilton, Seekret	0.001677852
## Gonzalez, Kimberly	0.001730104
## Hood, Joshua	0.001689189
## Russell, Cecelia	0.001466276
## Garcia, Maria	0.001680672
## Batz, Katelyn	0.001677852
## Enkuselasse, Mica	0.001494768

- Degree

vertex\_degree

##	degree(network)
## Solomon, Jason	2
## Gonzales, Cesar	6
## Chinburg, Jacob	6
## Suits, Brian	7
## Porcelli, Isaac	5
## Ammon, Garret	4
## Peterson, Jeanrei	4
## Lobato, Marco	13
## Steele, William	9
## Baker, Phaezon	4
## Chia, Marco	8
## Ryan, Derek	6
## Tesfai, Henry	8
## Cruz, Dominic	6
## Gomez, Senna	9
## Molalegne, Tevyn	9
## Ontiveros, Cheridan	6
## Pucherelli, Dominic	10
## Seeley, Marcus	6
## Bautista, Maria	9
## Trujillo, Corinna	5
## Mebane, Jeremy	7
## Gracia-Cazares, John	6
## Jones, Tricia	4

## King, Gabriel	3
## Martinez, Alejandra	6
## Blankenbeckler, Brock	5
## Rice, Chelsi	9
## Vigil, Fabian	6
## D Alessandro, Cassidy	5
## Bellinger, Nicholas	9
## Mejia-Bernal, Jairo	10
## Rosenblatt, Mollie	6
## Butler-Stowers, Exaviah	6
## Mcelroy, Jose	11
## Lambert, Michael	6
## Ham, Marsean	7
## De La Rosa, Joseph	4
## Glenn, Morgan	3
## Wickware, Deshaun	4
## Hernandez, Adrieanna	11
## Streib, Holly	8
## Combs, Treasure	5
## Amaro Sandoval, Nicolas	6
## Garvin, Christian	6
## Partee, Catherine	6
## Muniz, Matthew	5
## Florian, Sarah	4
## Williams, Kason	6
## Apodaca, Sydni	4
## Osborn, Joshua	4
## Smolarek, Eiman	4
## Barrera, Jorion	6
## Krabach, Nicholas	6
## Woodard, Zoe	6
## Savedra-Gonzales, Laura	6
## Boland, Samuel	3
## Mannon, Ishmyla	7
## Montanez, Erick	5
## Hodgson, Spencer	9
## Mondragon, Malcolm	7
## Soto, Joseph	4
## Billat, Levi	3
## Scott, Joel	3
## Garcia, Juanmanuel	7
## Woodward, Kyle	13
## Drakeford, Jasmine	6
## Resendez, Jacob	7
## Schneider, Justin	4
## Johnson, Unikka	6
## Alvarado Nava, Alyssa	6
## Ellwein, Jacob-Allen	9
## Navarro, Michael	4
## Rivera, Fernando	7
## Fania, John	7
## Jones, Traevena	7
## Saenz, Suheily	7
## Ledonne, Lnay	7

## Young, Wilfried	5
## Salazar, Gabrielle	5
## Scholten, Kitiara	3
## Wilson, Bailie	10
## Gonzalez Vargas, Issac	8
## Dunlap, Sarah	9
## Patton, Micholette	7
## Sandoval, Angelique	5
## Coleman, Kimberly	4
## Rosechild, Juan	7
## Barrientos, Luis	6
## Skublickas, Cody	4
## Hooks, Terrence	8
## Fierro, Nicolas	11
## Baker, Logan	7
## Hamilton, Seekret	6
## Gonzalez, Kimberly	6
## Hood, Joshua	5
## Russell, Cecelia	2
## Garcia, Maria	6
## Batz, Katelyn	5
## Enkuselasse, Mica	11

- In-degree

##	in.degree
## Solomon, Jason	0
## Gonzales, Cesar	4
## Chinburg, Jacob	4
## Suits, Brian	6
## Porcelli, Isaac	2
## Ammon, Garret	1
## Peterson, Jeanrei	1
## Lobato, Marco	8
## Steele, William	4
## Baker, Phaezon	1
## Chia, Marco	5
## Ryan, Derek	4
## Tesfai, Henry	6
## Cruz, Dominic	4
## Gomez, Senna	4
## Molalegne, Tevyn	5
## Ontiveros, Cheridan	1
## Pucherelli, Dominic	5
## Seeley, Marcus	3
## Bautista, Maria	4
## Trujillo, Corinna	3
## Mebane, Jeremy	5
## Gracia-Cazares, John	1
## Jones, Tricia	1
## King, Gabriel	1
## Martinez, Alejandra	1
## Blankenbeckler, Brock	3
## Rice, Chelsi	6
## Vigil, Fabian	2

## D Alessandro, Cassidy	4
## Bellinger, Nicholas	5
## Mejia-Bernal, Jairo	5
## Rosenblatt, Mollie	1
## Butler-Stowers, Exaviah	2
## Mcelroy, Jose	6
## Lambert, Michael	2
## Ham, Marsean	2
## De La Rosa, Joseph	2
## Glenn, Morgan	2
## Wickware, Deshaun	1
## Hernandez, Adrieanna	6
## Streib, Holly	4
## Combs, Treasure	4
## Amaro Sandoval, Nicolas	3
## Garvin, Christian	2
## Partee, Catherine	4
## Muniz, Matthew	2
## Florian, Sarah	3
## Williams, Kason	2
## Apodaca, Sydni	2
## Osborn, Joshua	2
## Smolarek, Eiman	3
## Barrera, Jorion	3
## Krabach, Nicholas	2
## Woodard, Zoe	3
## Savedra-Gonzales, Laura	1
## Boland, Samuel	2
## Mannon, Ishmyla	2
## Montanez, Erick	1
## Hodgson, Spencer	4
## Mondragon, Malcolm	2
## Soto, Joseph	3
## Billat, Levi	2
## Scott, Joel	0
## Garcia, Juanmanuel	6
## Woodward, Kyle	8
## Drakeford, Jasmine	4
## Resendez, Jacob	3
## Schneider, Justin	2
## Johnson, Unikka	5
## Alvarado Nava, Alyssa	1
## Ellwein, Jacob-Allen	4
## Navarro, Michael	2
## Rivera, Fernando	5
## Fania, John	2
## Jones, Traevena	5
## Saenz, Suheily	3
## Ledonne, Lnay	3
## Young, Wilfried	2
## Salazar, Gabrielle	3
## Scholten, Kitiara	1
## Wilson, Bailie	6
## Gonzalez Vargas, Issac	5

## Dunlap, Sarah	5
## Patton, Micholette	3
## Sandoval, Angelique	1
## Coleman, Kimberly	3
## Rosechild, Juan	5
## Barrientos, Luis	2
## Skublickas, Cody	2
## Hooks, Terrence	3
## Fierro, Nicolas	6
## Baker, Logan	5
## Hamilton, Seekret	3
## Gonzalez, Kimberly	2
## Hood, Joshua	2
## Russell, Cecelia	1
## Garcia, Maria	3
## Batz, Katelyn	2
## Enkuselasse, Mica	8

## Network plot

### Test Data Connections (color by profession)

