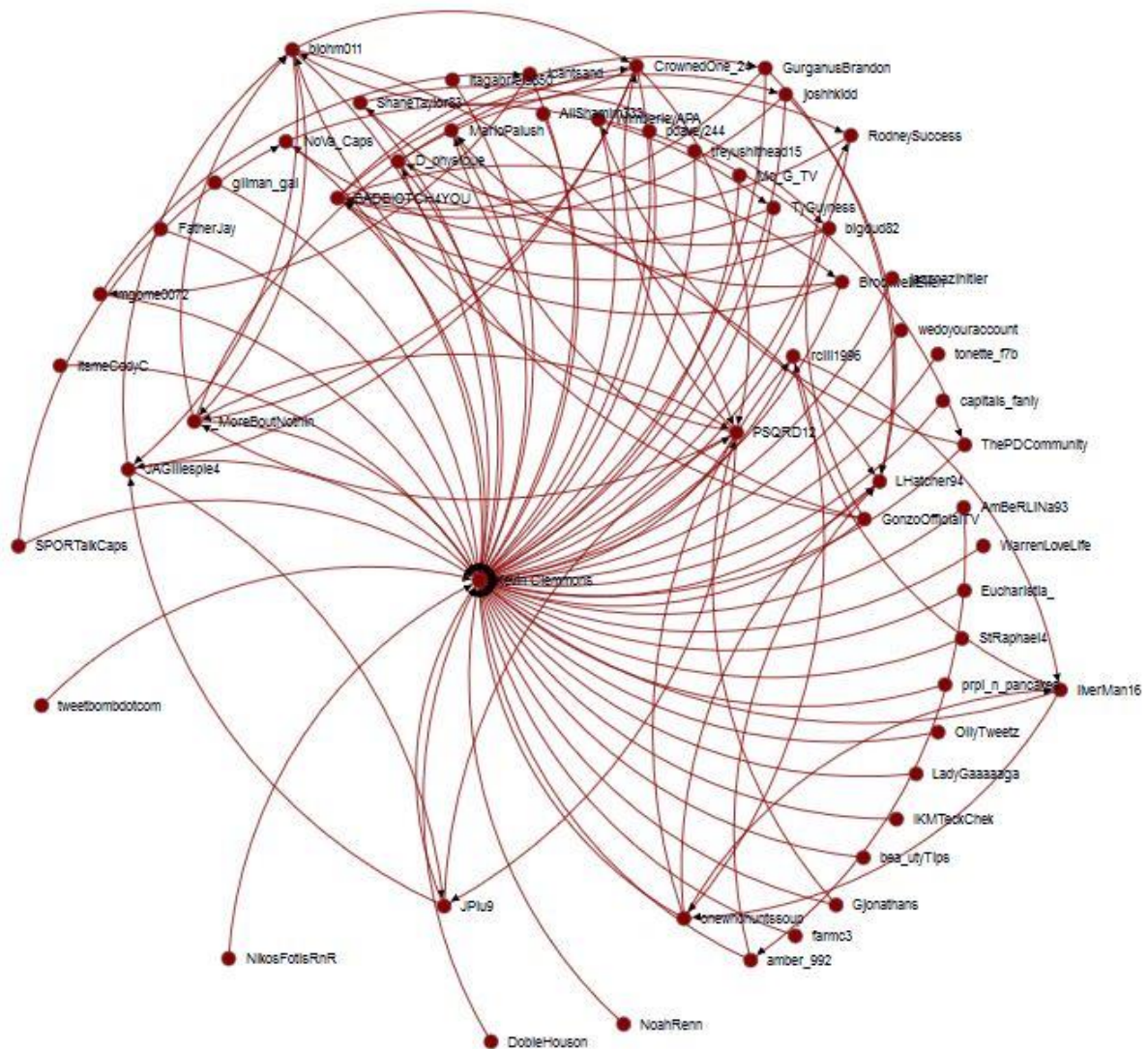


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Problem 1- In order to solve the issue, we had to select a subject with an optimal amount of followers to ensure a clear, legible graph would be generated with the required number of nodes. So we decided the Kevin Clemmons would be the optimal subject. After using the networkCreator.py to obtain the followers and putting them into force.xml, I used the D3 library in addition to the Htmlgraph.html to generate the following graph.



The following websites were used:  
<https://github.com/mbostock/d3>

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## Part 2

For the second part, the first step was to establish follower gender. In order to do this, `get_user_genders.py` was used in addition to `Htmlgraph.html`. The following output and graph were generated.

jazznazihitler

id: jazznazihitler  
screenName: jazznazihitler  
gender: unknown

WimberleyAPA

id: WimberleyAPA  
screenName: WimberleyAPA  
gender: unknown

JPlu9

id: JPlu9  
screenName: JPlu9  
gender: male

StRaphael4

id: StRaphael4  
screenName: StRaphael4  
gender: male

joshhkidd

id: joshhkidd  
screenName: joshhkidd  
gender: male

tweetbombdotcom

id: tweetbombdotcom  
screenName: tweetbombdotcom  
gender: unknown

D\_physique

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id: D\_physique  
screenName: D\_physique  
gender: female

tonette\_f7b

id: tonette\_f7b  
screenName: tonette\_f7b  
gender: unknown

bea\_utyTips

id: bea\_utyTips  
screenName: bea\_utyTips  
gender: female

JAGillespie4

id: JAGillespie4  
screenName: JAGillespie4  
gender: male

Gjonathans

id: Gjonathans  
screenName: Gjonathans  
gender: male

MarioPalush

id: MarioPalush  
screenName: MarioPalush  
gender: male

LadyGaaaaaga

id: LadyGaaaaaga  
screenName: LadyGaaaaaga  
gender: female

pdavey244

id: pdavey244

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screenName: pdavey244

gender: unknown

GurganusBrandon

id: GurganusBrandon

screenName: GurganusBrandon

gender: male

amber\_992

id: amber\_992

screenName: amber\_992

gender: female

Mc\_G\_TV

id: Mc\_G\_TV

screenName: Mc\_G\_TV

gender: unknown

NoVa\_Caps

id: NoVa\_Caps

screenName: NoVa\_Caps

gender: unknown

IKMTeckChek

id: IKMTeckChek

screenName: IKMTeckChek

gender: unknown

BADBIOTCH4YOU

id: BADBIOTCH4YOU

screenName: BADBIOTCH4YOU

gender: None

SPORTalkCaps

id: SPORTalkCaps

screenName: SPORTalkCaps

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gender: unknown

KevinClemmons

id: KevinClemmons

screenName: KevinClemmons

gender: male

NoahRenn

id: NoahRenn

screenName: NoahRenn

gender: male

rciii1996

id: rciii1996

screenName: rciii1996

gender: male

blohm011

id: blohm011

screenName: blohm011

gender: unknown

capitals\_fanly

id: capitals\_fanly

screenName: capitals\_fanly

gender: unknown

CrownedOne\_24

id: CrownedOne\_24

screenName: CrownedOne\_24

gender: male

gilman\_gal

id: gilman\_gal

screenName: gilman\_gal

gender: unknown

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itagabriela850

id: itagabriela850  
screenName: itagabriela850  
gender: female

treyushithead15

id: treyushithead15  
screenName: treyushithead15  
gender: male

GonzoOfficialTV

id: GonzoOfficialTV  
screenName: GonzoOfficialTV  
gender: unknown

ShaneTaylor83

id: ShaneTaylor83  
screenName: ShaneTaylor83  
gender: unknown

bigdud82

id: bigdud82  
screenName: bigdud82  
gender: male

onewhohuntssoup

id: onewhohuntssoup  
screenName: onewhohuntssoup  
gender: unknown

TyGuyness

id: TyGuyness  
screenName: TyGuyness  
gender: unknown

RodneySuccess

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id: RodneySuccess  
screenName: RodneySuccess  
gender: male

wedoyouraccount

id: wedoyouraccount  
screenName: wedoyouraccount  
gender: unknown

ThePDCommunity

id: ThePDCommunity  
screenName: ThePDCommunity  
gender: male

PSQRD12

id: PSQRD12  
screenName: PSQRD12  
gender: male

OllyTweetz

id: OllyTweetz  
screenName: OllyTweetz  
gender: unknown

NikosFotisRnR

id: NikosFotisRnR  
screenName: NikosFotisRnR  
gender: unknown

AliShamim333

id: AliShamim333  
screenName: AliShamim333  
gender: female

farmc3

id: farmc3

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screenName: farmc3  
gender: unknown

LHatcher94

id: LHatcher94  
screenName: LHatcher94  
gender: male

liverMan16

id: liverMan16  
screenName: liverMan16  
gender: male

\_MoreBoutNothin

id: \_MoreBoutNothin  
screenName: \_MoreBoutNothin  
gender: unknown

FatherJay

id: FatherJay  
screenName: FatherJay  
gender: unknown

mgome0072

id: mgome0072  
screenName: mgome0072  
gender: unknown

icantsand

id: icantsand  
screenName: icantsand  
gender: unknown

AmBeRLiNa93

id: AmBeRLiNa93  
screenName: AmBeRLiNa93



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gender: female

WarrenLoveLife

id: WarrenLoveLife

screenName: WarrenLoveLife

gender: male

prpl\_n\_pancakes

id: prpl\_n\_pancakes

screenName: prpl\_n\_pancakes

gender: male

Eucharistia\_

id: Eucharistia\_

screenName: Eucharistia\_

gender: unknown

itsmeCodyC

id: itsmeCodyC

screenName: itsmeCodyC

gender: unknown

BrockwellEllen

id: BrockwellEllen

screenName: BrockwellEllen

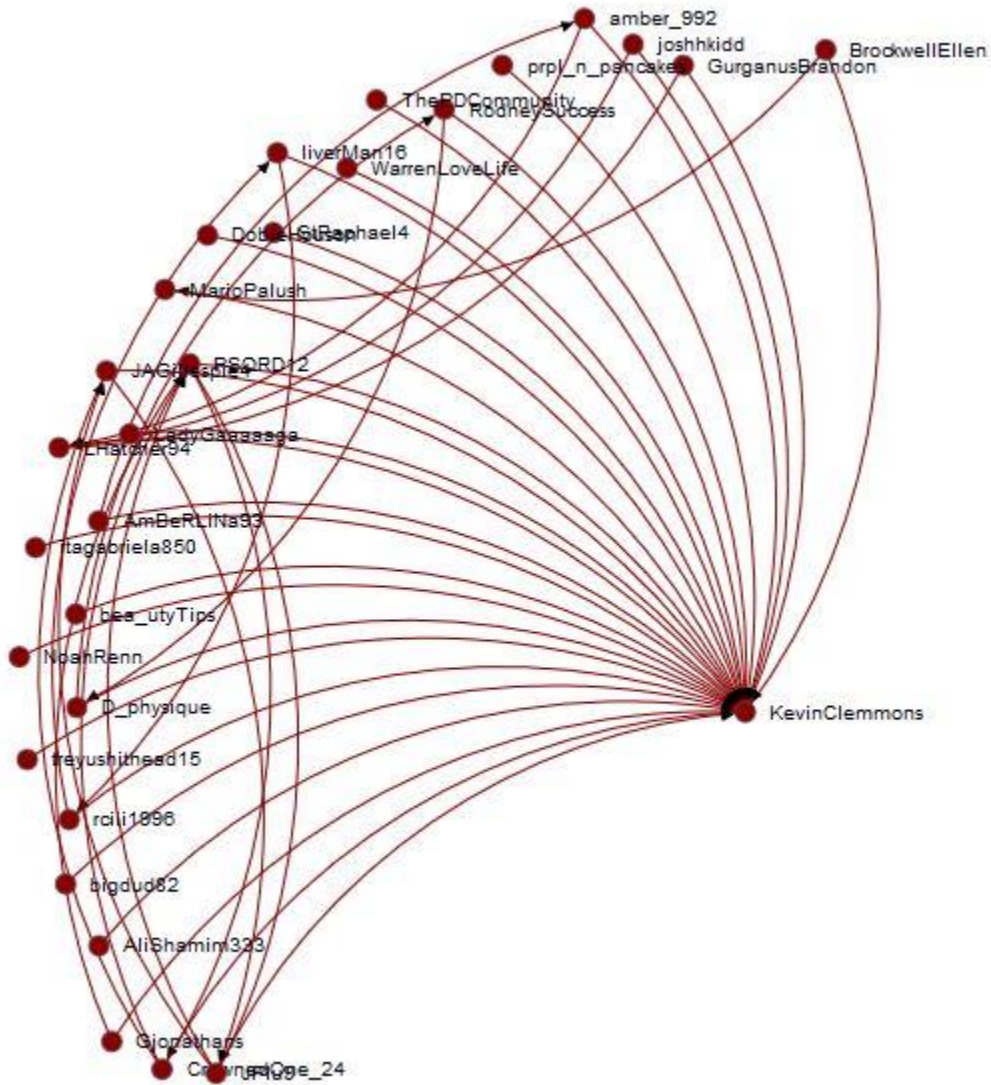
gender: female

DobieHouson

id: DobieHouson

screenName: DobieHouson

gender: male



The following data was generated concerning the potential homophily.

JPlu9 & Jared Pluciniczak & male \ \ \hline

StRaphael4 & St Raphael & male \\ \hline

joshhkidd &amp; Joshua Reynolds &amp; male \ \ \hline

D\_physique & Dynasty For Life Rec & female \ \ \hline

bea\_utyTips & Beauty Tips & female \ \ \hline

JAGillespie4 & Justin Gillespie & male \\ \hline

Gjonathans & Jonathan Gustafsson & male \ \ \hline

MarioPalush & MARIO & male \ \ \hline

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LadyGaaaaaga & Lady Gaga & female \\ \hline

GurganusBrandon & Brandon Gurganus & male \\ \hline

amber\_992 & Amber Schakel & female \\ \hline

KevinClemmons & Kevin Clemmons & male \\ \hline

NoahRenn & Noah Renn & male \\ \hline

rciii1996 & Robert RCIII Croson & male \\ \hline

CrownedOne\_24 & Steven & male \\ \hline

itagabriela850 & gabriela & female \\ \hline

treyushithead15 & trey peters & male \\ \hline

bigdud82 & Mike Dudley & male \\ \hline

RodneySuccess & Rodney Pickett II & male \\ \hline

ThePDCommunity & Kevin McCarthy & male \\ \hline

PSQRD12 & Paul Porter & male \\ \hline

AliShamim333 & Shamim & female \\ \hline

LHatcher94 & luke & male \\ \hline

liverMan16 & Eric Liverman & male \\ \hline

AmBeRLiNa93 & Amber Schakel & female \\ \hline

WarrenLoveLife & Warren Happy ♥ & male \\ \hline

prpl\_n\_pancakes & Daniel Pancake & male \\ \hline

BrockwellEllen & Ellen brockwell & female \\ \hline

DobieHouson & dobie houson & male \\ \hline

1 Female to Female

32 Male to Male

12 Female to Male

45 Edges total

$P = 1 / 45 = 0.0222$

$Q = 32 / 45 = 0.7111$

$R = 1 / 45 = 0.2666$

$2 * PQ = 0.0315 < 0.2666$

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Due to this calculation, there is not a gender homophily within the network.