Intermediate Geocoding Part 1 By Kate Norris & Erik Finlay URP6275 Module 5 – Part 2-1

https://adhoc.geoplan.ufl.edu/downloads/ Geocoding\_20190207/



## Intermediate Geocoding Part 1

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- \* Common U.S. Address Elements
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- \* Geocoding Accuracy
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- \* Geocoding Steps
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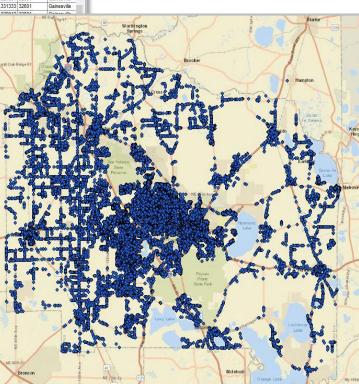
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# Geocoding – What's the Point?

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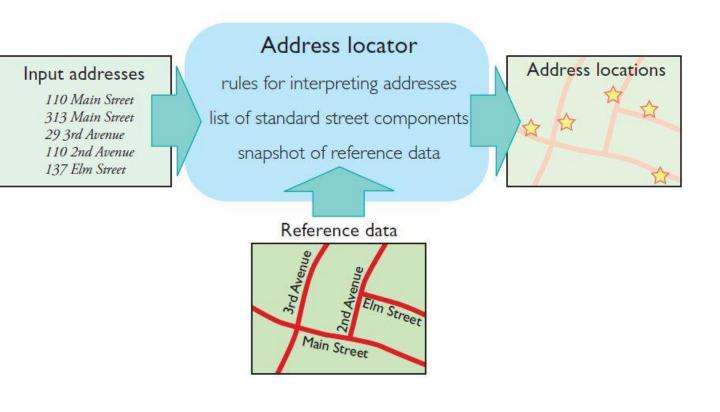
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# What is Geocoding?

- \* Geocoding is the term used to describe the act of address matching.
- Geocoding is the process of finding a geographic location (x, y point) for an address on a map.
  - \* Such as street number and name, city, state, and ZIP Code.
- Geocoding allows you to go from a list of addresses in a flat table file to a map.



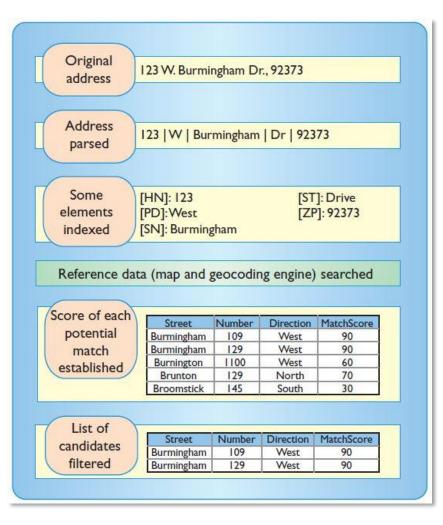
### Common U.S. Address Elements

100	South	King	Street,	Suite 500,	Seattle	e,WA	98104
	Direction prefix		Street type	Sub-address	City	State	Postal code

Geocoding is based off the typical address scheme for the US, in which one side of the street contains even house numbers while the other side of the street contains odd house numbers.

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## How Address Matching Works



- The geocoding process uses an algorithm to find the geographic location of addresses.
- First, a street segment is identified using the zip code and street name.
- Next, the geographic location of the address is matched using the building number to determine how far down the street and on which side of the street the building is located.

# Geocoding Accuracy

The locational accuracy of geocoded addresses may vary from urban to rural areas due to the algorithm used to generate the geographic locations of addresses

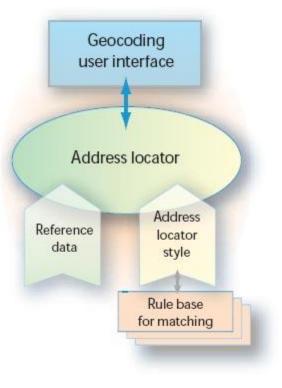
- \* Algorithm assumes equal size of parcels along a road route (aka evenly distributed).
  - \* For Example, Rural parcel sizes ranging from 2.5 ac to 15 ac along a route
- \* Geocoded addresses in urban areas are usually more reliable than those in rural areas.



## Address Matching Reference Data & Locator Creation

The Geocoding Process (address matching) requires a series of steps:

- \* Build or Acquire Reference Data
  - \* For example, street networks, parcel centroids or zip code polygons.
- \* Standardize Reference Data Addresses
  - \* Parse out each address element to it's own field or fields.
- \* Select an Address Locator Style
  - \* Format of the input addresses is the driving factor.
- \* Build an Address Locator
  - 1. Selecting an address locator style
  - 2. Loading reference data from one or more feature classes.
- \* Perform address matching



#### Common Address Locator Styles

- 1. U.S. Address Dual Ranges
- 2. U.S. Address One Range
- U.S. Address Single House
- U.S. Address Zip 5-Digit 4.
- Gazetteer
- 6. Single Field

#### Common address locator styles for the United States

Address data in the input table address fields

Reference data Map of reference data with sample matched address

347 Garcta Road

#### U.S. Address-Dual Ranges

Finds input addresses with house number, street, and zone on reference data containing street centerline segments with from- and toaddress ranges on the right and left side. This locator can place an address point on the correct side of the street. By default, addresses are placed at a 20-foot offset on the left or right side of the street.

#### U.S. Address-One Range

Similar to the U.S. Streets and Zone address locator style, but works with street centerlines with from- and to-address ranges, without information about right and left sides. Addresses are located along the street centerline.

#### U.S. Address-Single House

Finds input addresses with street and zone fields on reference data where each feature represents one address. The reference data can be points, such as building or parcel centroids, or polygons, such as parcels and buildings.

#### U.S. Address-ZIP 5-Digit

Finds input addresses consisting of a 5-digit ZIP Code (postal code in the US). The reference data can contain points or polygons with ZIP Code values. If the reference data contains polygons, then the ZIP location is placed at the 87506 87112 centroid of the ZIP Code polygon.

#### Gazetteen

Finds places such as mountains, bridges, rivers, and cities by feature names and geographic zone such as city, state, and country. The reference data represent places with either points or polygons and has fields for the place and geographical zone.

#### **Single Field**

Finds input addresses consisting of a user-defined key field, usually a place name or landmark. The reference data can contain points or polygons with a key field with values that match the input address key field.

House From Left House To Left All address elements House From Right are contained in a House To Right single field in the Prefix Direction impus table. Prefix Type Street Name Examples are Street Type 320 Madison St. Suffix Direction N2W1700 County Rd Left Zone 105-30 Union St **Right Zone** 

All address elements House From are contained in a House To single field in the Prefix Direction input table. Prefix Type Street Name Examples are Street Type 2 Summit Rd. Suffix Direction N5200 County Rd PP Zone 115-19 Post St.

All address elements House Number are contained in a Prefix Direction studie field to the Prefix Type impus table. Street Name Street Type Examples are 71 Cherry Ln. Suffix Direction W1700 Rock Rd. Zone

Five-digis ZIP Code ZIP Code values are contained in a single field in the

38-76 Carson Rd.

inpus table. Examples are 90210

All place name elements Place are contained in a sincle City field in the input table. State Country

Examples are Leeds Castle, England Sapporo, Japan

Features are identified Key field by a sext string, name, or code in a single field in the input table. Note: A reference data

field with light font style

indicates that this field

is optional.

Examples are Cafe Cabrillo N1N115









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### U.S. Address: Dual Ranges

Common address locator	Address data	Reference data	Map of reference data with sample matched address
styles for the United States	in the input table	address fields	
U.S. Address—Dual Ranges Finds input addresses with house number, street, and zone on reference data containing street centerline segments with from- and to- address ranges on the right and left side. This locator can place an address point on the correct side of the street. By default, addresses are placed at a 20-foot offset on the left or right side of the street.	All address elements are contained in a single field in the input table. Examples are 320 Madison St. N2W1700 County Rd 105-30 Union St	House From Left House To Left House To Right House To Right Prefix Direction Prefix Type Street Name Street Type Suffix Direction Left Zone Right Zone	360 359 300 347 Garcia Road

#### ✓ Most commonly used address locator.

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### U.S. Address: Single House

Common address locator	Address data	Reference data	Map of reference data with sample matched address
styles for the United States	in the input table	address fields	
U.S.Address—Single House Finds input addresses with street and zone fields on reference data where each feature represents one address. The reference data can be points, such as building or parcel centroids, or polygons, such as parcels and buildings.	All address elements are contained in a single field in the input table. Examples are 71 Cherry Ln. W1700 Rock Rd. 38-76 Carson Rd.	House Number Prefix Direction Prefix Type Street Name Street Type Suffix Direction Zone	134 Camino Alire

#### ✓ Often used in address locators derived from parcel centroids.

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### U.S. Address: Zip 5 Digit

Common address locator	Address data	Reference data	Map of reference data with sample matched address
styles for the United States	in the input table	address fields	
U.S. Address—ZIP 5-Digit Finds input addresses consisting of a 5-digit ZIP Code (postal code in the US). The reference data can contain points or polygons with ZIP Code values. If the reference data contains polygons, then the ZIP location is placed at the centroid of the ZIP Code polygon.	Five-digit ZIP Code values are contained in a single field in the input table. Examples are 90210 87506 87112	ZIP Code	87109 87111 87008 87112 87108 87123 87108 87123

#### ✓ Less refined, obscures sensitive data.

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### ArcMap Geocoding Steps

#### 1. Add an Address Locator

2. Geocode Addresses

3. Rematch Addresses

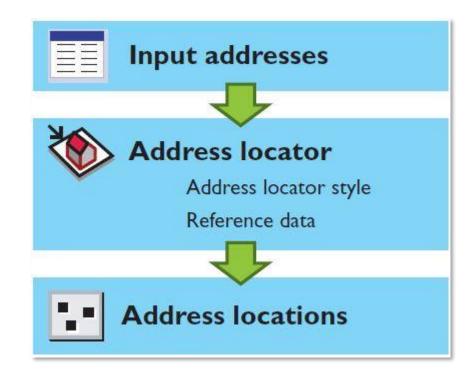


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## Add an Address Locator

#### I Add an address locator Add one or more address locators to Address locator AddressPoint an ArcMap document 505 509 HALE RIO DE SEBASTAN CALLE DE LEON CONEJO DR FORT UNION OR CALLEDEVALDEZ 613 617 ALLE 608 612

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## Geocode Addresses

#### 2 Geocode addresses

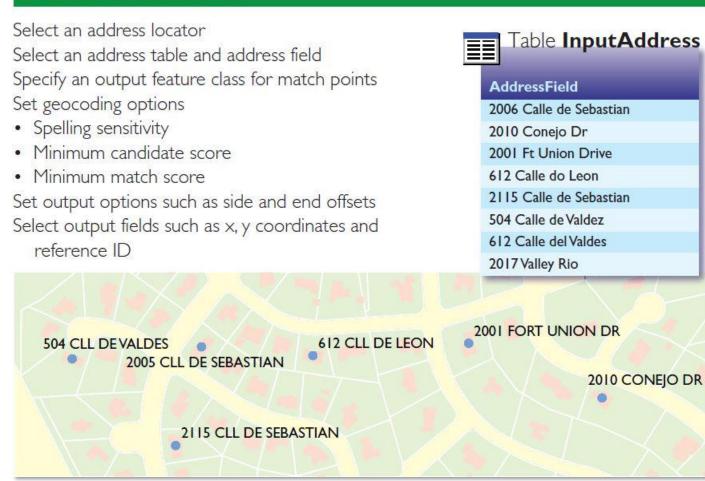


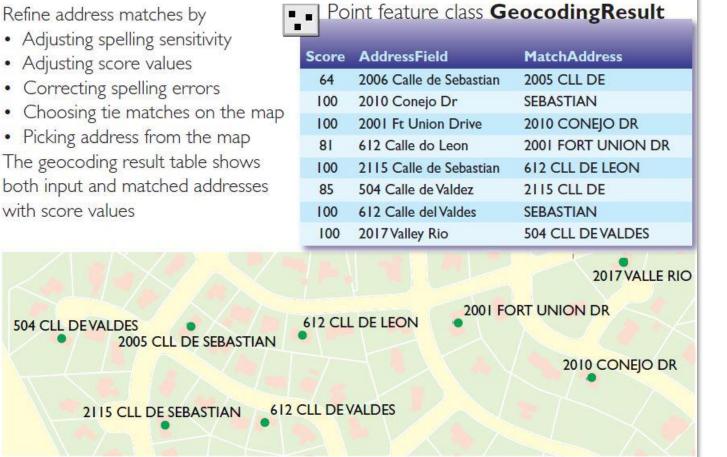
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## Rematch Addresses

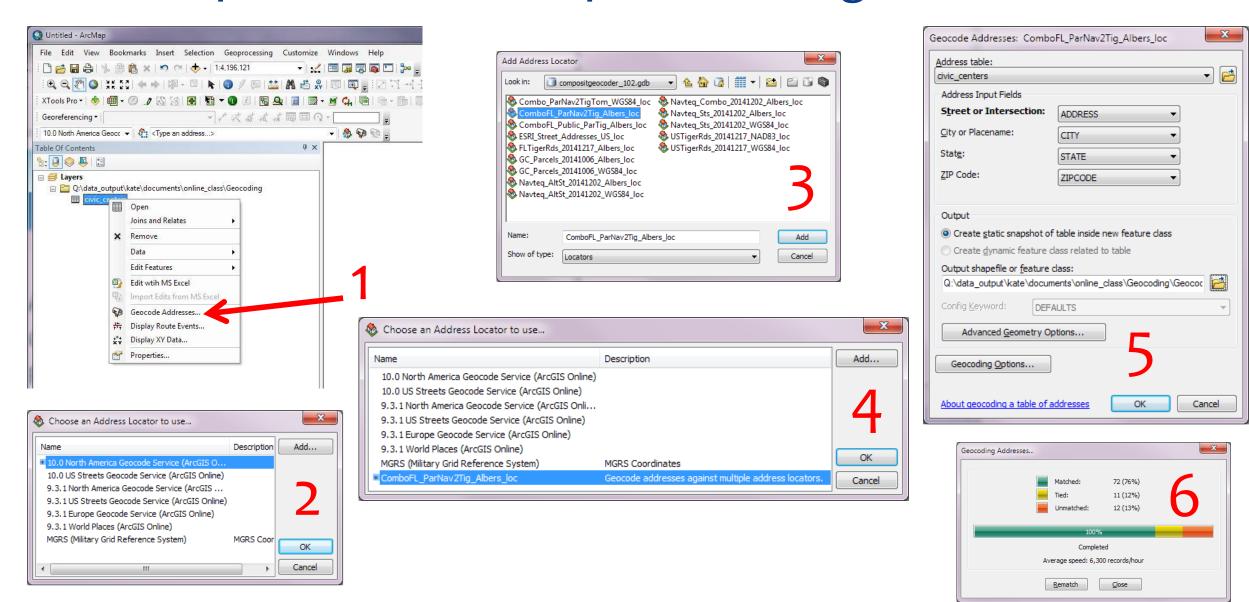
#### 3 Rematch addresses

Refine address matches by

- Adjusting score values
- Correcting spelling errors
- Choosing tie matches on the map
- Picking address from the map The geocoding result table shows both input and matched addresses with score values



### Example: Basic ArcMap Geocoding, Civic Centers



#### Example: Basic ArcMap Geocoding, Civic Centers

201 M 201 M 20	Result s IE DA STATE UNIVERSIT (LEGENDS FIELD) SITY OF NORTH FLO	1375 MORR 11000 EVEN 10001 FOC 110001 FOC 110001 FOC 11000 EVEN 2201 EDEO 11001 FOC 11001 FOC 11001 FOC 400 W CHUN 400 W CHUN 400 W CHUN 400 W CHUN 400 CHANN 4001 CHANN 4001 CHANN 4001 CHANN 4001 CHANN 11185 UNV 11185 UNV 1118	Match_addr OE ST, PORT MYERS, FL, 33901 BAUGES RWV, TERRO, FL, 33901 BLUDS, FLORT MYERS, FL, 33901 HI AVE, FORT MYERS, FL, 33901 HI AVE, FORT MYERS, FL, 33901 HI AVE, FORT MYERS, FL, 33901 DI AST & STADIM DR E, TALLAMASS BAUGUAS T, TALLAMASSEE, FL, 2320 AND ST, SOLANDA, FL, 33907 LL ST & STADIM DR E, TALLAMASS SACOLA ST, TALLAMASSEE, FL, 32307 HI ST, WAY, TALMARSEE, FL, 32307 HI ST, ORLAND, FL, 33907 HEAR VT, TAMPA, FL, 33978 CONNECTOR RD & CHEFFAN S U N F DR HAS PENISYL VANIA AVE UNIVERSITY AVENUE & NORT S UN F DR HAS PENISYL VANIA AVENUE UNIVERSITY AVENUE & NORT S UN REDIT	23917 EE, FL, 32304 1 LLE, FL, 32224 ULLE, FL, 32224 WAY G JR BLVD TH SOUTH DRIVE	Anage result	ITY SSEE VILLE	Address Address Address Address Address Address ZiPCODE 32306 33607 32224 32723	1975 MONROE STREE           1900 PURBLARES           1900 FOCU BLVD SC           1900 FOCU BLVD SC     <	PARKWAY OUTH UESS PKWY OAD * & STADIUM HEFFAN WA ST * & STADIUM	Y R BLVD WAY	Matched: Tied: Unmatched:	72 (76% 11 (12% 12 (13%
201 M 201 M 20	100         A           100	1375 MORR 11000 EVEN 10001 FOC 110001 FOC 110001 FOC 11000 EVEN 2201 EDEO 11001 FOC 11001 FOC 11001 FOC 400 W CHUN 400 W CHUN 400 W CHUN 400 W CHUN 400 CHANN 4001 CHANN 4001 CHANN 4001 CHANN 4001 CHANN 11185 UNV 11185 UNV 1118	BLACES POWY, ESTERO, FL. 33928 UEVOS 5, CORT WITCHS, FL. 33926 UEVOS 5, CORT WITCHS, FL. 33926 UEVOS 5, CORT WITCHS, FL. 35NORE RO, NORTH FORT MITCHS, FL. 3500 LA STA STADUID DE, T. 2100 A STADUID DE ACHT, FL. 2300 A STADUID DE ACHT, FL. 23107 A STADUID DE ACHT, FL. 23107	23917 EE, FL, 32304 1 LLE, FL, 32224 ULLE, FL, 32224 WAY G JR BLVD TH SOUTH DRIVE	Anage result	EE         0           0         0           LEE         0           D         0           LEON         0           ORANGE         0           OSCEOLA         HILLSBOROUG           HILLSBOROUG         0           DADE         0           DASE         0           SSEEL         VILLE	Address Addres Addres Addres Addres Addres Addres Addres Addres Addres Addres Addres A	11000 EVERELACES 1 1000 EVERELACES 1 14100 SK MLE CYPE 2301 EDISON AVE 11831 BAX SHORE RC 11831 BAX SHORE RC 11831 BAX SHORE RC 1980 WARNISH WAY PENSACOLA STREET 1980 WARNISH WAY PENSACOLA STREET 201 CHANNES SPE D 1990 ZH STREET 201 CHANNES SPE D 1990 ZH STREET 201 CHANNES SPE D 11830 INVZTH AVE 11832 UNIVERSITY OF 11830 INVZTH AVE 11832 UNIVERSITY OF 11930 INVZTH AVE 11832 UNIVERSITY OF 11930 INVZTH AVE 11832 UNIVERSITY OF 11930 INVZTH AVE 11832 UNIVERSITY OF 11930 INVZTH AVE 11830 INVZTH AVE 118300 INVZTH AVE 118300 INVZTH AV	PARKWAY OUTH WESS PKWY OAD * 8 STADIUM HEFFAN WA ST ANE ER R R HER KING JF LABRY HIGHY AVE	Y R BLVD WAY	Tied:	72 (76%
201 M M 22 T X T M M 22 T X T M M 22 T X T M M 201 M M M M M M M M M M M M M M M M M M M	100 A 100 A 10	10501 FOC 14100 SNL 1200 FOR 2201 EDISO 11831 BAY 1500 WARH W PENSACL 505 W PENS 400 W CHUI 1075 SLU2 400 W CHUI 1075 SLU2 400 CHUI 400 CHUI 1175 SLU2 400 CHUI 1175	U BLVD S. FORT INVERS, FL. 3386 ILE CYPRES SMOV, FORT INVERS, FL. 3386 IN AVE, FORT INVERS, FL. 3380 SWORE RD, IORTH FORT INVERS, FL. 3280 SWORE RD, IORTH FORT INVESS, FL. 32207 LIST WAY, TALLAHASSEE, FL, 32207 LIST WAY, TALLAHASSEE, FL, 32207 LIST STATUME FL, 3207 ILE DE DR, TAMA, FL. 33807 ILE DE DR, TAMA, FL. 33807 ILE RAVE, TAMPA, FL. 34807 ILE RAVE	23917 EE, FL, 32304 1 LLE, FL, 32224 ULLE, FL, 32224 WAY G JR BLVD TH SOUTH DRIVE	Anage result	EE         0           0         0           LEE         0           D         0           LEON         0           ORANGE         0           OSCEOLA         HILLSBOROUG           HILLSBOROUG         0           DADE         0           DASE         0           SSEEL         VILLE	Address Addres Address Address Addres Addres Addres Addres Addres Addres Addres Addres Addres Addres Addres Addres Addres Addres Addres Addres Addres Addres A	19501 FROU BLVD ST 14100 SK MLE CYPR 2201 EDISON AVE 11301 BAYSHORE RC 11500 WANNEH WAY PRISACOLA STREET CONNECTOR RD & CHURCH ST CONNECTOR RD & CHURCH ST 2005 ON MENACOLAS 600 W PRISACOLAS 600	OUTH RESS PKWY OAD * & STADIUM HEFFAN WA ST ANE E R R HEF KING JF LABRY HIGHY AVE	Y R BLVD WAY	Tied:	72 (76%
22 T 23 T 24 T 25 T 26 T 26 T 27 T 27 T 28 T 28 T 29 T 20 T	100         A           9902         A           9912         A           9912         A           100         A           853         A           0         A           255         A           100         A           255         A           100         A           255         A           100         A           255         A           100         B           100	14100 SK h 2201 EDBG 2101 EDBG 11831 BAY 1500 WAHN W PENSACI 400 W CHUI 1875 SLVE 400 W CHUI 1875 SLVE 401 CHAINN 4001 CHAINN 4001 CHAINN 4001 CHAINN 4001 CHAINN 11380 UNIV 11011 SW 1 11380 UNIV 11011 SW 1	LE CYPERSS PKWY, FORT MYRER, F. NAVE, FORT MYRER, FL, 3300 SHORE RD, NORTH FORT MYRER, FL, 330 SHORE RD, NORTH FORT MYRER, FL, 330 SHORE RD, NORTH FORT MYRER, FL, 330 CH, 37 & STADUIN DR E, TALLAHASS BACOLA ST, TALLAHASSE, FL, 3230 CH, 37 OK, ST, AND CH, 2300 SHORE ST, VELANDE, FL, 3347 ELSDE DR, TAIMPA, FL, 33607 LELSDE DR, AUMAI, FL, 33176 SHORE ST, MIAMI, FL, 33176 LELSDE DR, MARTIN LUTHER KM SSU N F DR 143 PENNSYLVANIA AVE UNIVERSITY AVENUE & NORT UNIVERSITY AVENUE & NORT	23917 EE, FL, 32304 1 LLE, FL, 32224 ULLE, FL, 32224 WAY G JR BLVD TH SOUTH DRIVE	Anage result	0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Address Addres	14100 SX MLE CYRA 2201 EDISON AVE 11831 BAYSHOER RC 11831 BAYSHOER RC 1800 WARNISH WAY PENSACOLA STREET 500 WARNISH WAY PENSACOLA STREET 500 WARNISH WAY 700 S VVCTORY LAM 1075 SUVER SVUE L 700 S VVCTORY LAM 4001 261N STREES 900 WARNISH 4001 261N STREES 91 H DR 11852 UNVERSITY OF 11852 UNVERSITY OF 11852 UNVERSITY OF 11951 WARNISH 11950	OAD C T S STADIUM HEFFAN WA ST ANE IE R NAVE IE R NORTH FL I SF NORTH FL I I I I I I I I I I I I I	Y R BLVD WAY	Tied:	72 (76%
201 M 201 M 20	9913 A 100 A 583 A 0 A 285 A 100 A 285 A 100 A 285 A 100 A 285 A 100 A 285 A 100 A 285 A 100	11831 BAY 1180 WAHNER SOS W PENSACI 1500 WAHNER W PENSACI 505 W PENSACI 400 W CHUI 1070 S VICT 401 CHANN 4001 26TH 11852 UNC 11852 UNC 1	SHORE RD. UBOTH FORT WYRES, FL.           SHORE RD. UBOTH FORT WYRES, FL.           SHORE RD. 1970           CLA ST & STADIUM DR E, TALLAHASS           SHORE RD. 1970           SAGULA ST, TALLAHASSEE, FL. 3230           SHORE RD., 1970           LEADE RD., 1970           LEADE RD., 1970           SHORE RD., 1971	EE, FL, 32304	Anage result	LEON ORANOE OSCEOLA OSCEOLA MILLSBOROUG HILLSBOROUG DADE DADE 0 1 SEES ITY ISSEE VILLE	Address Address Intersecton Address Addres Addres Addres Addres Addres Addres Addres Addres Address Address Ad	11831 BAY SHORE NGY           11831 BAY SHORE NGY           11800 WANNEN NGY           PRISACOLA STREET           11905 WANNEN NGY           11975 SUKUR SPRU L           1090 S. VICTORY LAN           401 CHAINELSDE DE NOWER'S           1090 S. VICTORY LAN           101 CHAINELSDE DE NOWER'S           1020 EAST FOWLER.           101 SW 104TH ST           11380 NW 27TH AVE           11380 NW 27TH AVE           11101 SW 104TH ST           11011 SW 104TH ST           11101 SW 104TH ST           1111 SU NUSSA           1111 SU NUSSA	r & STADIUM HEFFAN WA ST ANE IE R. R. HER KING JF HER KING JF HER KING JF DF NORTH FL	Y R BLVD WAY	Tied:	72 (76%
201         M           201         T           201         T           201         T           201         T           201         M           201	100         A           563         A           0         A           92.5         A           100         A           102.5         A           100         A           65.06         A           92.5         A           100         A           65.06         A           92.5         A           100         A           93.5         A           100	1500 WAHN W PENSACI 505 W PEN V PENSACI 400 W CHUI 1875 SLV V 700 S VICT 401 CHAINN 4201 N DL I 4202 E FOV 401 201 N DL 11380 NW 2 11382 UNIV 11011 SW 1 11011 SW 1	INF WAY, TALLAHASSEE, FL, 3237 CLA ST& STADUM DE, TALLAHASS SACOLA ST, TALLAHASSE, FL, 3230 RNI ST, ORLANDO, FL, 33801 RS SPULKI, KSSMIEE, FL, 34747 ELSDE DR, TAHAP, FL, 33807 LESDE DR, TAHAP, FL, 35807 LESDE D	EE, FL, 32304	C TALLAHAS TAMPA JACKSON DELAND GAINESVIL	0 LEON ORANGE OSCEDLA HILLSBOROUG HILLSBOROUG 0 CADE 0 CADE 0 CADE 0 CADE 0 TSEtS ( TTY VILLE VILLE	Address htersection Address	1500 WANNEH WAY     PROSACOLA STREET     CONNECTOR RD & GA     SOS W PENSACOLA S     VENSACOLA S     VONTORY LAM     VONT	r & STADIUM HEFFAN WA ST ANE IE R. R. HER KING JF HER KING JF HER KING JF DF NORTH FL	Y R BLVD WAY	Tied:	72 (76%
No         M           0201         M           0101         M           0101         M           NAA         MAIN	553 A           0           0           25.5 A           100 A           715 A           00 A           00 A           010 A           100 A     <	W PENSACI SOS W PENS 400 W CHUI 1875 SLVE 700 S VICT 401 CHAINN 4202 E FOU 4002 E FOU 1103 2011 11352 UNIV 1103 2011 11352 UNIV 11011 SW 1 11011 SW 1 TY RIDA DRIDA FLORIDA	DLA ST & STADIM DR E, TALLAHASS           DLA ST & STADIM DR E, TALLAHASS           SACOLA ST, TALLAHASSEE, FL, 3230           RAFST, ORLAHON, PL, 3000           R SPUR LN, KISSMIEE, FL, 3474           DYY WAY, KISSMIEE, FL, 3474           DYY WAY, KISSMIEE, FL, 3474           DYY WAY, KISSMIEE, FL, 3474           DERVY, TAMPA, FL, 33001           LERA VE, TAMPA, FL, 33001           LERA VE, TAMPA, FL, 33001           ZITH AVE, MIAMI, FL, 33167           DITH AVE, MIAMI, FL, 33176           CONNECTOR RD & CHEFFAN           3802 DR MARTIN LUTHER KM           SU N F DR           143 PENNSYLVANIA, AVE           UNIVERSITY AVENUE & NORT           UNIVERSITY AVENUE & NORT           UNIVERSITY AVENUE & NORT	1 ILLE, PL, 32224 WAY G JR BLVD TH SOUTH DRIVE	C TALLAHAS TAMPA JACKSON DELAND GAINESVIL	LEON ORANOE OSCEOLA OSCEOLA OSCEOLA HILLSBOROUG HILLSBOROUG DADE 0 DADE 0 0 Try Try SSEE	htersecton Address Add	PENAGOLA STREET CONNECTOR RD & CH 905 W PENSACOLA S 905 W PENSACOLA S 905 W PENSACOLA S 905 W CHURCH ST 1975 SUCKR SWALE 905 W CHANNELSDE DA 905 W CHANNELSDE 905 W	HEFFAN WA ST ANE IE R HER KING JF HER KING JF HER KING JF HER KING JF FNORTH FL	Y R BLVD WAY	Tied:	72 (76%
201 M 201 T 201 M 201 T 201 M 201 T 201 M 201 T 201 M 201 M 20	925 A 100 A 10	400 W CHUIN 1875 SLVC 700 S VICT 401 CHAINN 4201 H DL 4202 E FOV 4001 2CTH 11380 W/2 111852 UW/2 111852 UW/2 111852 UW/2 11001 SW 1	RCH ST, ORLANDO, FL, 32801 RCH ST, ORLANDO, FL, 32801 RSV RU, KOSSMUEL, FL, 34747 ELSEO BR, TAMPA, FL, 33607 LER AVE, TAMPA, FL, 33607 LER AVE, TAMPA, FL, 33607 LER AVE, TAMPA, FL, 3367 STH AVE, MARI, FL, 3367 STH AVE, MARI, FL, 3367 STH AVE, MARI, FL, 3367 STH AVE, TAMPA, FL, 3367 STH AVE, TAMPA, FL, 3367 STH AVE, TAMPA, FL, 3367 STH AVE, ST, MARI, FL, 3376 STH AVE, ST, MARI, FL, 3376 STH AVE, ST, MARI, FL, 3376 STH AVE, STH AVE, STH AVE, STH AVE, CONNECTOR RD & CHEFFAN 3802 DR MARTN LUTHER KN SU N F OR 143 PENNSYLVANIA AVE UNIVERSITY AVENUE & NOR? UNIVERSITY AVENUE & NOR?	LLE, FL, 32224	C TALLAHAS TAMPA JACKSON DELAND GAINESVIL	ORANGE OSCEOLA VILLSBOROUG HILLSBOROUG HILLSBOROUG DADE 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Adress Ad	505 W FUISACOL 35 400 W CHURCH \$T 1075 SLVCRF SPRU L 700 S. V/CT08 / LAM 401 CHANNELSDE DD 3052 DRI MARTHI LUT 4201 NORTH DALE M 4001 2011 STREET 300 L MW 27TH AVE 11380 INW 27TH AVE 11382 UNIVERSIT AVE 11101 SW 104TH ST 11101 SW 104TH ST	ST ANE IE R. HER KING JF LABRY HIGHY AVE	R BLVD WAY	Tied:	72 (76%
201 M 201 T 201 M 201 T 201 M 201 T 201 M 201 T 201 M 201 M 20	100         A           100         A           100         A           100         A           100         A           0         A           85.08         A           92.53         A           100	400 W CHUIN 1875 SLVC 700 S VICT 401 CHAINN 4201 H DL 4202 E FOV 4001 2CTH 11380 W/2 111852 UW/2 111852 UW/2 111852 UW/2 11001 SW 1	RCH ST, ORLANDO, FL, 32801 RCH ST, ORLANDO, FL, 32801 RSV RU, KOSSMUEL, FL, 34747 ELSEO BR, TAMPA, FL, 33607 LER AVE, TAMPA, FL, 33607 LER AVE, TAMPA, FL, 33607 LER AVE, TAMPA, FL, 3367 STH AVE, MARI, FL, 3367 STH AVE, MARI, FL, 3367 STH AVE, MARI, FL, 3367 STH AVE, TAMPA, FL, 3367 STH AVE, TAMPA, FL, 3367 STH AVE, TAMPA, FL, 3367 STH AVE, ST, MARI, FL, 3376 STH AVE, ST, MARI, FL, 3376 STH AVE, ST, MARI, FL, 3376 STH AVE, STH AVE, STH AVE, STH AVE, CONNECTOR RD & CHEFFAN 3802 DR MARTN LUTHER KN SU N F OR 143 PENNSYLVANIA AVE UNIVERSITY AVENUE & NOR? UNIVERSITY AVENUE & NOR?	LLE, FL, 32224	C TALLAHAS TAMPA JACKSON DELAND GAINESVIL	ORANGE OSCEOLA VILLSBOROUG HILLSBOROUG HILLSBOROUG DADE 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Adress Ad	400 W CHURCH ST 1075 SLIVER SPUR LI 700 S. VICTOR'L LAM 401 CHANNELSDE DF 3002 DR MARTHL LUH 4202 EAST FOWLER 4202 EAST FOWLER 50 UI FOR 1100 I SW 1047H AVE 1100 I SW 1047H ST 1101 S	ANE IE R. THER KING JF HABRY HIGHY AVE	WAY	Tied:	72 (76%
201         M           201         T           201	100 A           77.35 A           70.6 A           0 A           85.06 A           92.5 A           100	1075 SLVE 700 S VECT 401 CHAINN 4202 F FOU 4001 26TH 11380 WV 111852 UW 111852 UW 111852 UW 111852 UW 11011 SW 1 11852 UW 11011 SW 1 11011 SW 1	R 50/U RU, KGSMMEE, FL, 3474 077 WAY, KGSMLE, FL, 3474 ELSDE DR, TAIMPA, FL, 3360 MABRY, TAMPA, FL, 3360 MABRY, TAMPA, FL, 3360 271 HAYE, MIAMI, FL, 33167 EGBTY OF NORTH LOR, JACKSONV 04TH ST, MIAMI, FL, 33176 MADRESS CONNECTOR RD & CHEFFAN 3802 DR MARTIN LUTHER KN SU N F DR 143 PENNSYLVANIA, AVE UNIVERSITY AVENUE & NORT	WAY G JR BLVD TH SOUTH DRIVE	C TALLAHAS TAMPA JACKSON DELAND GAINESVIL	OSCEDLA HILSBOROUG HILSBOROUG DADE 0 0 t sets TTY TTY VILLE	Address Address Address Address Address Address Address Address Address Address Address ZiPCODE 32306 33807 32224 32723	1075 SLVCR SPRU L 700 S. V/CTORY LAM 401 CHANNELSDE DP 3050 20 M NATTH LUT 4201 NORTH DALE M 4201 2015 STREET 2020 EAST FOWLER. 4001 2011 STREET 2011 SU H FOR 11380 NW 27TH AVE 11382 UN-REATH 11382 UN-	IE R. HABRY HIGHY AVE DF NORTH FL	WAY	Tied:	72 (769
201 M U 201 T 201 T 201 T 201 T 201 M U 201 M U 201 M U 201 M 201 T 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	100         A           0         A           0.8         0.9           92.5         A           100	401 CHAINN 4201 N DL I 4202 E FOV 4001 28TH 11380 NW 2 11852 UNIV 11011 SW 1 11011 SW 1 11011 SW 1 11011 SW 1 1001 DL 1001 DL	ELSDE DR. TAMPA, FL. 33602 ALBRY, TAMPA, FL. 33602 ILARAY, TAMPA, FL. 33807 ILERAYET, TAMPA, FL. 33807 27TH AVE, UIAMI, FL. 33807 27TH AVE, UIAMI, FL. 33176 20TH AVE, UIAMI, AVE, UIAMI	WAY G JR BLVD TH SOUTH DRIVE	C TALLAHAS TAMPA JACKSON DELAND GAINESVIL	HLLSBORDUG HLLSBORDUG 0 DADE 0 0 1 HLSBORDUG 0 0 0 1 HILSBORDUG 0 0 0 1 HLSBORDUG 0 0 1 HLSBORDUG 0 0 0 1 HLSBORDUG 0 1 HLSBORDUG 1 HLSBOR	Address Address Address Address Address Address Address Address ZiPCODE 32306 33807 32224 32723	401 CHANNELSDE DP 3802 DR NARTH LUT 4201 NORTH DALE M 4202 EAST FOWLER. 4001 2011 STREET 501 H 57R 11380 INW 2011 AVE 11382 UNVERSIT AVE 111011 SW 104TH ST 11011 SW 104TH ST	R. THER KING JF LABRY HIGHY AVE P NORTH FL tically	WAY	Tied:	72 (769
U U U U U U U U U U U U U U		4201 N DL 1 4202 E FOV 4001 2CTH : 11380 NW 2 11010 SW 1 1182 UMV 11011 SW 1 11011 SW 1 11011 SW 1 11011 SW 1 1011 S	ABRY, TANPA, FL 33607 LER AVE, TAMPA, FL 33607 LER AVE, TAMPA, FL 33612 ST, VERD BEACH, FL 3260 277H AVE, MAM, FL 33167 ERSITY OF HORTH FL DR, JACKSONV IG4TH ST, MIAMI, FL 33176 CONNECTOR RD & CHEFFAN 3802 DR MARTIN LUTHER KN 3802 DR MARTIN LUTHER KN 3802 DR MARTIN LUTHER KN 3802 DR MARTIN LUTHER KN 3802 DR MARTIN LUTHER KN 143 PENISYL VANIA AVE UNIVERSITY AVENUE & NOR	WAY G JR BLVD TH SOUTH DRIVE	C TALLAHAS TAMPA JACKSON DELAND GAINESVIL	HILLSBOROUG HILLSBOROUG D DADE 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1	Adress Address	3802 DR NAETH LUT 4201 NORTH DALE M 4202 EAST FOWLER 4001 28TH STREET 5 U H F DR 11380 INVZTH AVE 11380 INVZTH AVE 113800 INV	HER KING JA JABRY HIGHY AVE	WAY	Tied:	72 (769
201 T 201 M U 201 M 201 M	925 A 100 A 10	4202 E FOW 4001 26TH : 11380 NW 2 111852 UNV 11011 SW 1 11011 SW 1	LER AVE, TAMPA, FL, 3912 ST, VERD BEACH, FL, 3260 27TH AVE, MAM, FL, 33167 ERSITY OF NORTH FL DR, JACKSONV IG4TH ST, MIAM, FL, 33176 CONNECTOR RD & CHEFFAN 3802 DR MARTIN LUTHER KIN 3802 NV FUNDE & NOR	WAY G JR BLVD TH SOUTH DRIVE	C TALLAHAS TAMPA JACKSON DELAND GAINESVIL	HILISOROUG DADE DADE 0 0 1 t sets ITY SSEE VILLE	Address Address Address Address Address Address ZiPCODE 32306 33607 32224 32723	4202 EAST FOWLER. 4001 2811 STREAT 5 U IF DR 11380 INVZTH AVE 11382 UNIVERSITY OF 11011 SW 104TH ST 11011 SW 104TH ST 11011 SW 104TH ST LEON HILLSBORDUGH DUVAL VOLUSIA	AVE F NORTH FL		Tied:	72 (769
201 M U 201 M 201	100         A           0         A           100         A           100         A           100         A           100         A           190         A           100         A           100 <t< td=""><td>4001 26TH 1 11380 NW 2 11852 UNIV 11011 SW 1 11011 SW 1 11011 SW 1 1011 SW 1</td><td>ST, VERO BEACH, FL, 3260 27TH AVE, MMAIL FL, 33167 ERSTV OF INGITH E.OR. JACKSONV 104TH ST, MIAMIL FL, 33176 ADDRESS CONNECTOR RD &amp; CHEFFAN 3802 DR MARTIN LUTHER KN 3802 VERVISE VAVINUE &amp; NOR</td><td>WAY G JR BLVD TH SOUTH DRIVE</td><td>C TALLAHAS TAMPA JACKSON DELAND GAINESVIL</td><td>0 DADE 0 0 1 t sets SSEE</td><td>Address Address Address Address Address Refresh ZIPCODE 32306 33607 32224 32224</td><td>400120Th STREET SU IF DR 11380 NW 27TH AVE 11380 NW 27TH AVE 11382 UNIVERSIT 11011 SW 104TH ST 11011 SW 104TH ST 11011 SW 104TH ST 11011 SW 104TH ST 11011 SW 104TH ST 11012 S</td><td>F NORTH FL</td><td></td><td>Tied:</td><td>72 (769</td></t<>	4001 26TH 1 11380 NW 2 11852 UNIV 11011 SW 1 11011 SW 1 11011 SW 1 1011 SW 1	ST, VERO BEACH, FL, 3260 27TH AVE, MMAIL FL, 33167 ERSTV OF INGITH E.OR. JACKSONV 104TH ST, MIAMIL FL, 33176 ADDRESS CONNECTOR RD & CHEFFAN 3802 DR MARTIN LUTHER KN 3802 VERVISE VAVINUE & NOR	WAY G JR BLVD TH SOUTH DRIVE	C TALLAHAS TAMPA JACKSON DELAND GAINESVIL	0 DADE 0 0 1 t sets SSEE	Address Address Address Address Address Refresh ZIPCODE 32306 33607 32224 32224	400120Th STREET SU IF DR 11380 NW 27TH AVE 11380 NW 27TH AVE 11382 UNIVERSIT 11011 SW 104TH ST 11011 SW 104TH ST 11011 SW 104TH ST 11011 SW 104TH ST 11011 SW 104TH ST 11012 S	F NORTH FL		Tied:	72 (769
U U		11380 NW 2 11852 UNIV 11852 UNIV 11011 SW 1 11011 SW 1	2711 AVE, MANI, FL, 33167 ERSITY OF MORTH FL DR, JACKSONV 1947H ST, MIAW, FL, 33176 ADDRESS CONNECTOR RD & CHEFFAN 3802 DR MARTIN LUTHER KIN 3802 NO KONTONIO STATUS UNIVERSITY AVENUE & NOR	WAY G JR BLVD TH SOUTH DRIVE	C TALLAHAS TAMPA JACKSON DELAND GAINESVIL	DADE DADE 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1	Adress Address Address Address <b>Refresh</b> <b>ZIPCODE</b> 32306 33607 322723	SUIFDR 11380 NV2TH AVE 11382 UNIVERSITY OF 11011 SW 104TH ST 11011 SW 104TH ST LEON HILLSBOROUGH DUVAL VOLUSIA			Tied:	72 (769
A Constant of the second of th	100 A 100 A 195 Selected) Result S STO FRED STY OF NORTH FLO WREASTLY UNIVERSITY OF FLC THE UNIVERSITY OF FLC	11852 UNIV 11011 SW 1 11011 SW 1	ADDRESS CONNECTOR RD & CHEFFAN 380 NF ART LINE AUTHER M 380 NF ART LUTHER M 143 PENHSYL VANIA AVE UNIVERSITY AVENUE & NOR UNIVERSITY AVENUE & NOR	WAY G JR BLVD TH SOUTH DRIVE	C TALLAHAS TAMPA JACKSON DELAND GAINESVIL	0 0 0 1 sets ITY SSEE VILLE VILLE	Address Address Refresh ZIPCODE 32306 33607 32224 32723	11852 UNIVERSITY OF 11011 SW 104TH ST I1011 SW 104TH ST LEON HLLSBOROUGH DUVAL DUVAL			Tied:	72 (769
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802 W DR MA		RBIVD	Navteq_Sts 100 F	3802 W DF	MARTIN LUT	HER KING JR I	BLVD, TAMPA,	FL,	W	Ε	PreDir	W
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			Navteq_Sts 68.34 F	8 4014 W DF	MARTIN LUT	HER KING JR I	BLVD, TAMPA,	FL,	W			FI
			Navteq_Sts 68.28 L	4100 W DF	MARTIN LUT	HER KING JR I	BLVD, TAMPA,	FL,	W			
			Navteq_Sts 68.21 L	4200 W DF	MARTIN LUT	HER KING JR I	BLVD, TAMPA,	FL,	W			336
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				C THUU VV DH								
4	MPA	MPA		02 W DR MARTIN LUTHER KING 3R BLVD         Navteq_Sts         100         6           MPA         Navteq_Sts         68.43         F           Mate_Sts         68.43         F         Navteq_Sts         68.43         F           Mate_Sts         68.43         F         Navteq_Sts         68.42         L           Navteq_Sts         68.43         F         Navteq_Sts         68.42         L           Navteq_Sts         68.35         L         Navteq_Sts         68.35         L           Navteq_Sts         68.21         L         Navteq_Sts         68.17         L           Navteq_Sts         68.17         L         Navteq_Sts         68.17         L	02 W DR MARTIN LUTHER KING JR BLVD         Nøvteq_Sts         100         R         3802 W DE           MPA         Nøvteq_Sts         68.42         L         3900 W DR           Nøvteq_Sts         68.42         L         3902 W DE           Nøvteq_Sts         68.42         L         3902 W DR           Nøvteq_Sts         68.5         L         4000 W DR           Nøvteq_Sts         68.15         L         4010 W DR           Nøvteq_Sts         68.21         L         4200 W DR           Nøvteq_Sts         68.17         L         4200 W DR           Nøvteq_Sts         68.17         L         4250 W DR	02 W DR MARTIN LUTHER KING JR. BLVD         Navteg_Sts         100         R         3602 W DR MARTIN LUT           NAPA         Navteg_Sts         68.43         R         3603 W DR MARTIN LUT           Navteg_Sts         68.43         R         3600 W DR MARTIN LUT           Navteg_Sts         68.42         L         3902 W DR MARTIN LUT           Navteg_Sts         68.35         L         4000 W DR MARTIN LUT           Navteg_Sts         68.21         L         4014 W DR MARTIN LUT           Navteg_Sts         68.21         L         4000 W DR MARTIN LUT           Navteg_Sts         68.21         L         4200 W DR MARTIN LUT           Navteg_Sts         68.12         L         4200 W DR MARTIN LUT           Navteg_Sts         68.12         L         4200 W DR MARTIN LUT	Navteg_Sts         100         R         3802 W DR. MARTIN LUTHER KING JR.           Navteg_Sts         79         L         3803 W DR. MARTIN LUTHER KING JR.           Navteg_Sts         79         L         3803 W DR. MARTIN LUTHER KING JR.           Navteg_Sts         68.42         L         3902 W DR. MARTIN LUTHER KING JR.           Navteg_Sts         68.42         L         3902 W DR. MARTIN LUTHER KING JR.           Navteg_Sts         68.42         L         3902 W DR. MARTIN LUTHER KING JR.           Navteg_Sts         68.42         L         3902 W DR. MARTIN LUTHER KING JR.           Navteg_Sts         68.42         L         3902 W DR. MARTIN LUTHER KING JR.           Navteg_Sts         68.42         L         3904 W DR. MARTIN LUTHER KING JR.           Navteg_Sts         68.24         L         4004 W DR. MARTIN LUTHER KING JR.           Navteg_Sts         68.21         L         4004 W DR. MARTIN LUTHER KING JR.           Navteg_Sts         68.22         R         4200 W DR MARTIN LUTHER KING JR.           Navteg_Sts         68.17         L         4200 W DR MARTIN LUTHER KING JR.           Navteg_Sts         68.13         R         4310 W DR MARTIN LUTHER KING JR.	Navteg_Sts         100         R         3802 W DR MARTIN LUTHER KING 3R BLVD, TAMPA, Navteg_Sts           MPA         Navteg_Sts         100         R         3803 W DR MARTIN LUTHER KING 3R BLVD, TAMPA, Navteg_Sts           I614         Navteg_Sts         68.43         R         3900 W DR MARTIN LUTHER KING 3R BLVD, TAMPA, Navteg_Sts           Navteg_Sts         68.42         L         3902 W DR MARTIN LUTHER KING 3R BLVD, TAMPA, Navteg_Sts         68.42         L         3902 W DR MARTIN LUTHER KING 3R BLVD, TAMPA, Navteg_Sts         68.42         L         3902 W DR MARTIN LUTHER KING 3R BLVD, TAMPA, Navteg_Sts         68.42         L         3914 W DR MARTIN LUTHER KING 3R BLVD, TAMPA, Navteg_Sts         68.42         L         3914 W DR MARTIN LUTHER KING 3R BLVD, TAMPA, Navteg_Sts         68.21         L         4100 W DR MARTIN LUTHER KING 3R BLVD, TAMPA, Navteg_Sts         68.21         L         4100 W DR MARTIN LUTHER KING 3R BLVD, TAMPA, Navteg_Sts         68.21         L   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    68.21         L         4000 W DR MARTIN LUTHER KING 3R BLVD, TAMPA, FL,         W           Narte_Sts         68.21         L         4200 W DR MARTIN LUTHER KING 3R BLVD, TAMPA, FL,         W           Narte_Sts         68.17	Navies_Stat.         100         R         3802 W DR MARTIN LUTHER KING JR BLVD, TAMPA, FL,         W         PreDir           Navies_Stat.         79         L         3803 W DR MARTIN LUTHER KING JR BLVD, TAMPA, FL,         W         PreDir           Navies_Stat.         79         L         3803 W DR MARTIN LUTHER KING JR BLVD, TAMPA, FL,         W         PreDir           Navies_Stat.         63.4         R         3900 W DR MARTIN LUTHER KING JR BLVD, TAMPA, FL,         W           Navies_Stat.         68.42         L         3902 W DR MARTIN LUTHER KING JR BLVD, TAMPA, FL,         W           Navies_Stat.         68.42         L         3902 W DR MARTIN LUTHER KING JR BLVD, TAMPA, FL,         W           Navies_Stat.         63.42         L         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### **Resources & Sources**

- \* TIGER API Access, batch geocode (web interface):
  - \* https://geocoding.geo.census.gov/geocoder/locations/addressbatch?form
- \* Texas A&M Geocoding Services
  - \* http://geoservices.tamu.edu/Services/Geocode/
- \* ArcGIS Python API: batch\_geocode() method
  - \* https://developers.arcgis.com/python/guide/Batch-Geocoding/
- Improving batch geocoding performance
  - \* https://blogs.esri.com/esri/arcgis/2011/02/09/tuning-a-locator-for-improved-performance/
- Zeiler, M., & Murphy, J. (2010). Modeling Our World, 2nd Edition: The ESRI Guide to Geodatabase Concepts (pp. 164-181). Redlands, CA: ESRI Press.
- \* Cardinal and Ordinal Numbers Chart
  - \* http://www.mathsisfun.com/numbers/cardinal-ordinal-chart.html



