

Analyzing Data Consultations: What Liaisons can Learn about Users' Data Needs and Use of Tools

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Introduction

- ❑ Increased demand for data services
- ❑ Specialized skills and expertise needed
- ❑ Gap between liaisons & functional specialists



Methodology



Data
Collection

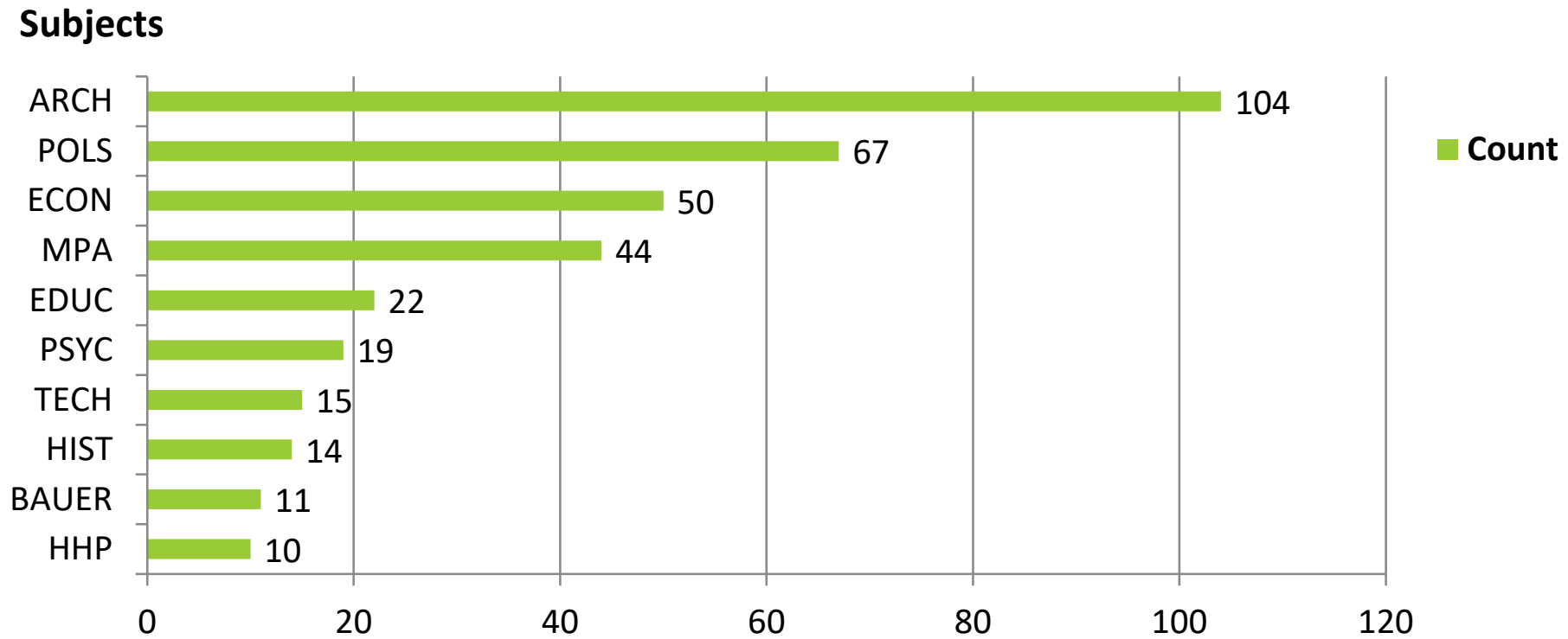
Data
Processing

Coding

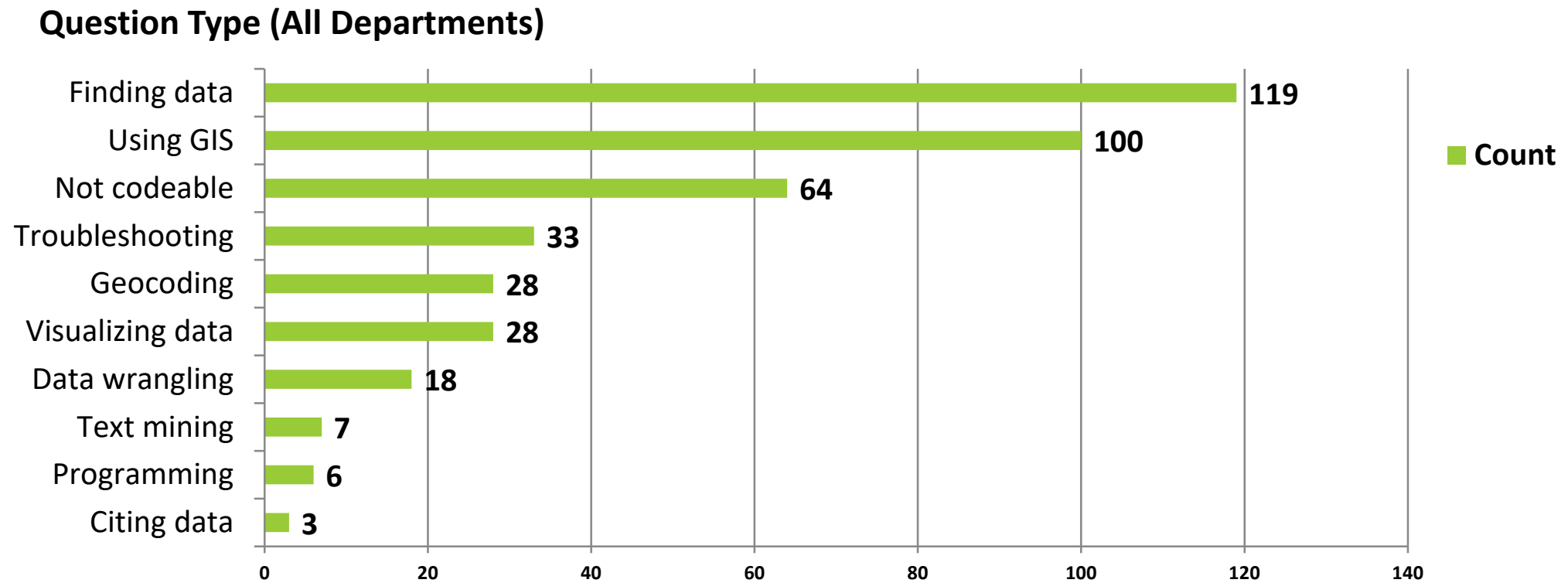
Word
Frequencies

Collocation

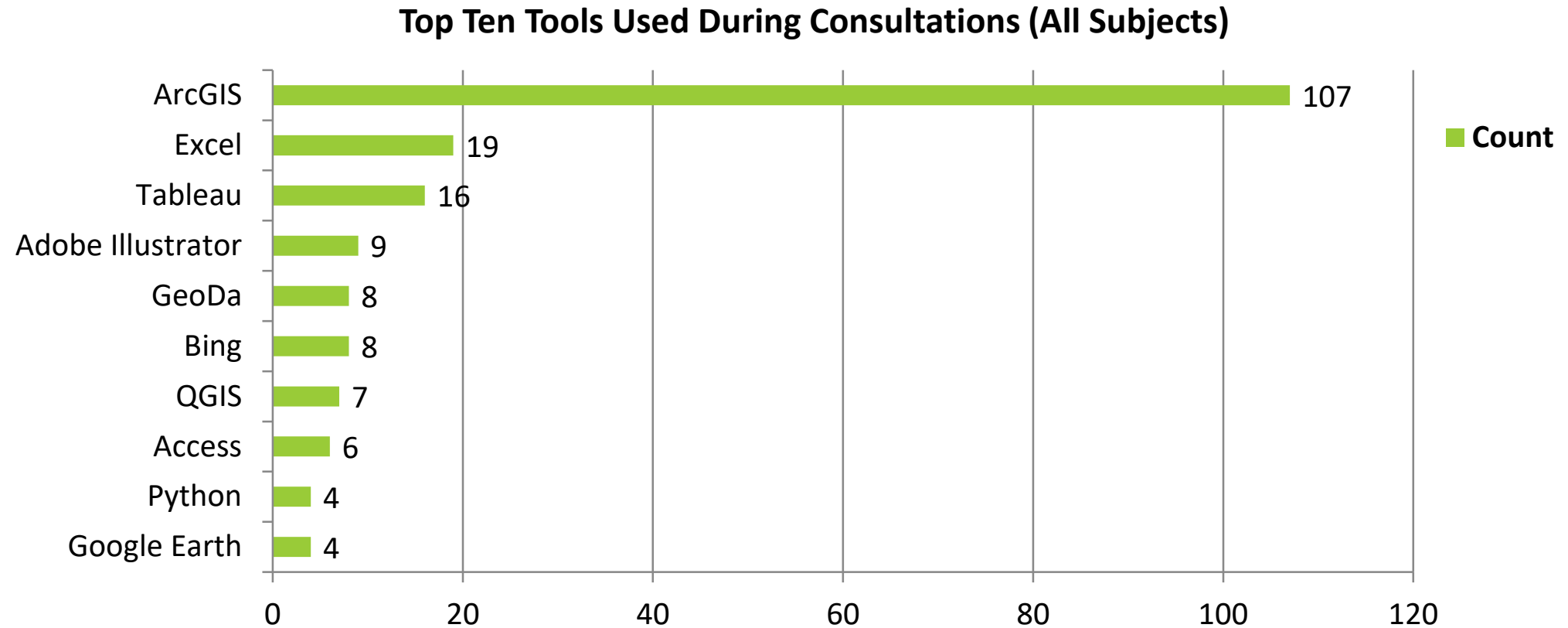
Subjects with Highest Demands



Most Frequently Asked Question Types:

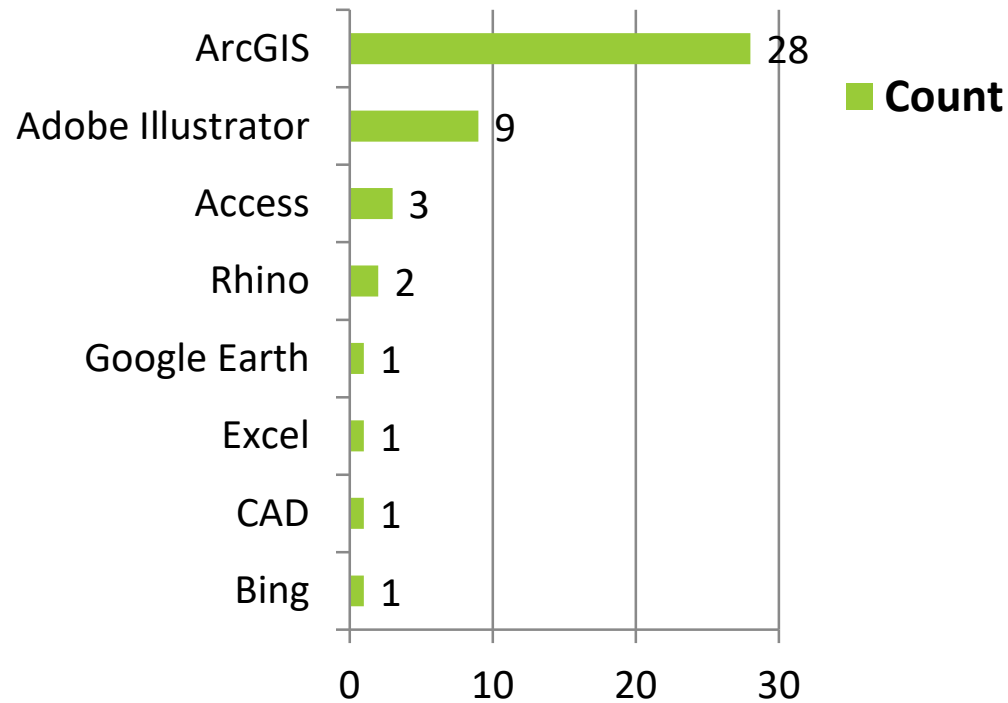


Most Frequently Used Tools

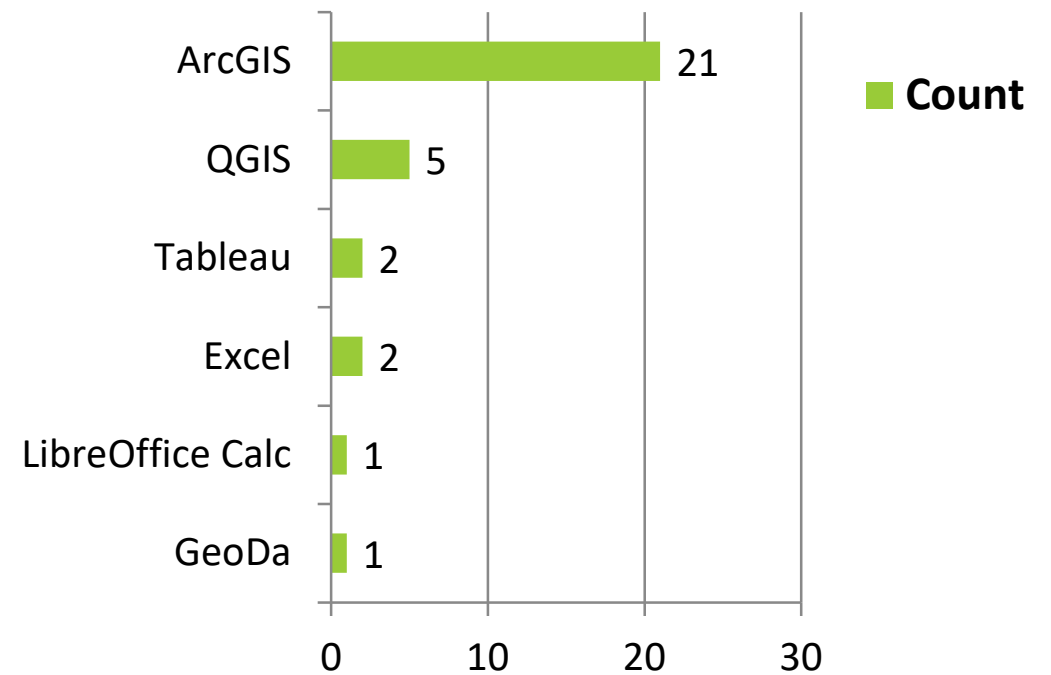


Most Frequently Used Tools, by Subject

Tools Used During Consultation:
Architecture (N=46)



Tools Used During Consultation: **Political Science (N=32)**



Top Ten Sources Consulted

Data Sources Used during Consultation (All Department)	
Data Sources	Count
Social Explorer	26
Harris County Appraisal District	19
Census: TIGER	18
Census Data	12
National Historical Geographic Information System	12
Houston-Galveston Area Council	11
SimplyMap	10
Open Street Map	9
Data Planet	7

Top Sources Consulted, by Subject

Data sources used more than 3 times (Architecture)

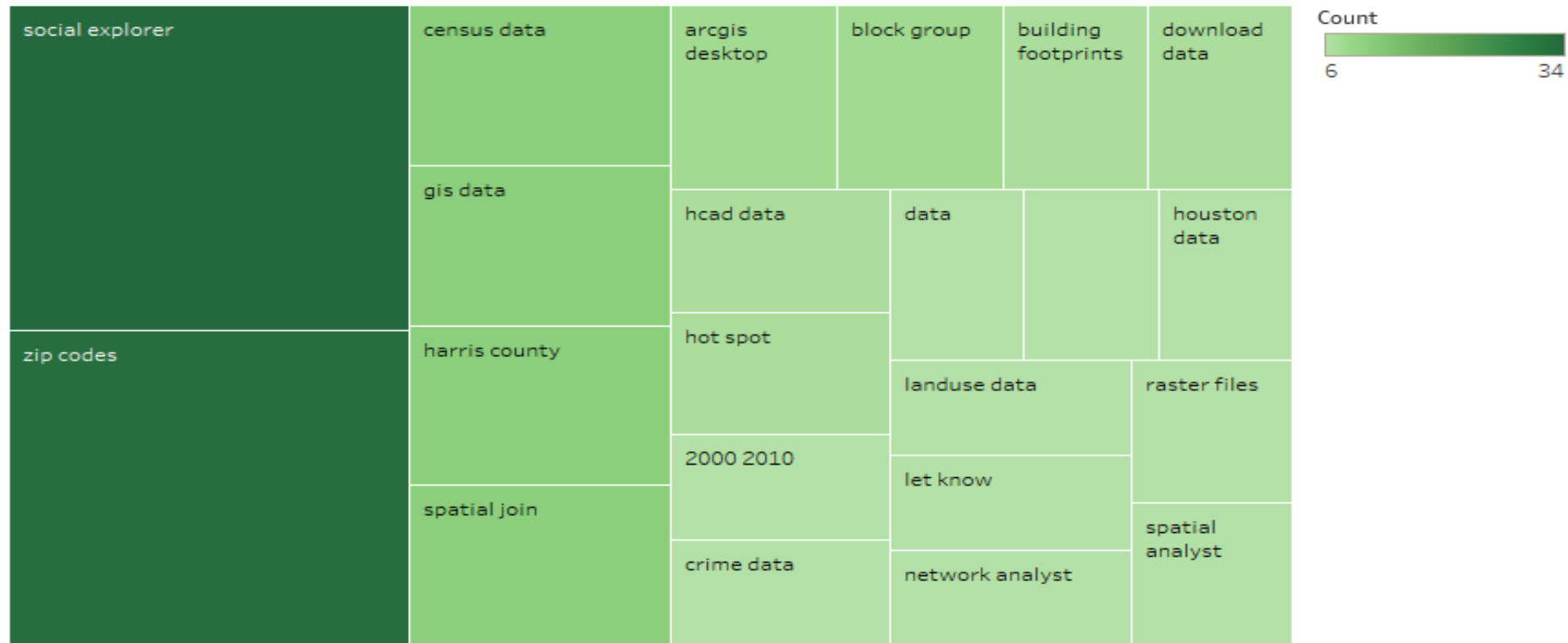
Data Sources	Count
Harris County Appraisal District	11
Social Explorer	10
Census: TIGER	8
Houston-Galveston Area Council	7
National Historical Geographic Information System	5
City of Houston GIS Data	3
Open Street Map	3

Data sources used more than 2 times (Political Science)

Data Sources	Count
Open Street Map	6
Data Planet	3
Census Data	2
Census: TIGER	2
Instituto Nacional de Estadística y Geografía (INEGI)	2
ReferenceUSA	2
Social Explorer	2

Text Analysis: Word Frequency

Word Frequency



Text Analysis: Collocation of Words

Words	Collocation
Houston	Survey, GIS, Health, Galveston, Building, Neighborhood, Downtown
ArcGIS	Desktop, Administrator, Online, Install, Licenses, Topo, Network
Social Explorer	Tiger, Tables, NHGIS, Texas
Census	Decennial, Geocoding, Tract, Block, Tables

Limitations

- ❑ Data collected focused on GIS
- ❑ Data collected by one person
- ❑ Timeframe of data collected

Conclusions

- ❑ Easy analysis vs. in depth coding
- ❑ Value of recording reference consultations
- ❑ Training implications

Questions?

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