

Open Data Literacy: Public Records Requests

Week 6 – Identifying Topics from LDA

Abstract: This document is a design thinking/clustering session related to finding higher-level topic names from a combination of keywords. The keywords were collected through latent Dirichlet analysis (LDA) computational methods.

Outcomes: We removed a number of different categories that did not have any relevance to the broader collection of terms—topics that only related to requesting information, rather than information related to a particular theme. The final visualizations in the iPython notebook uses these categorical names to show the popularity of trends over time.

Entire model

- 1 insurance case re: ^{accidents} ~~collisions~~
- 2 ~~underground~~ storage tanks in Seattle
- 3 Police incident + arrest record
- 4 general info request
- 5 general record request
- 6 Parking violations/parking info
- 7 Fine - Code violations/env. assessments
- 8 Construction/permitting
- 9 Police ~~video~~ audio recordings
- 10 email communication re: public ~~xxx~~

Revised full model

1. Insurance Cases re: accidents
2. ~~underground~~ Decommissioned underground storage
3. Arrest records/Police Incidents
4. ~~General~~ Info request
5. ~~General~~ record request
6. Parking infractions
7. Code violations/environmental assessments
8. Construction permits
9. Police ^{officer} recordings (audio/video)
10. Emails

JEA

- 1 Police complaint
- 2 info
- 3 Environmental assessment
- 4 info/record
- 5 Police ~~audio video~~ incident/arrest
- 6 Police audio video
- 7 info/record
- 8 ~~Permit/ Violation~~ ~~Building Permit~~ ~~Violations~~ UOT's
- 9 Building Permit/Violation
- 10 Nonresponse

SEA

1. Police complaint
2. info
3. Fire incident/Environmental assessment
4. info
5. Police incident/Arrest record
6. Police officers video/audio
7. info
8. DUSTs
9. Building Permit/Code Violation
10. ~~crime record~~ Nonresponse

POIR

- 1 Police?
- 2 Cell phone records?
- 3 Project Permits
- 4 Police record?
- 5 Building Permits/Plans
- 6 Car theft (device equipped)
- 7 Environmental Dev.
- 8 Purchase record for xxx
- 9 Maintenance/Repair plans for streets
- 10 info

POIR

- ~~1. info~~
- ~~2. Cell phone records?~~
- ~~3. Project Permits~~
- ~~4. info~~
- ~~5. Building Permits~~
- ~~6. Stolen vehicles~~
- ~~7. Environmental Dev of Prop. Records~~
- ~~8. info~~
- ~~9. Street Maintenance~~
- ~~10. info~~

OLY

- 1 Police arrest records/video
- 2 Building Permits
- 3 Fire code violations
- 4 ~~Court case records~~ Auto collection
- 5 Court docket number
- 6 info
- 7 Project Plan?
- 8 Insurance record
- 9 Police incident
- 10 Police incident

OLY

- 1 Police officer video
- 2 Building Permits
- 3 Fire Code Violations
- 4 ^{Car} Accident Records
- 5 ~~Court case records~~
- 6 info
- 7 ~~Project Plans?~~
- 8 Insurance record
- 9 Police
- 10 Police