



# Cypher Philly

Data-driven Journalism Using OpenDataPhilly &  
Neo4j

**Wifi:** Indy Hall  
**Pass:** coworking

# Our Supporters & sponsors

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DATAPHILLY



**CODE**  
★ FOR ★  
**PHILLY**

# What is Cypher Philly?

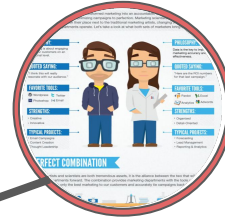
Investigative  
Journalism



Civic Activists



Data Scientists



**Cypher  
Philly**

Neo4j & the  
Cypher Query  
Language



Open Source City  
Data

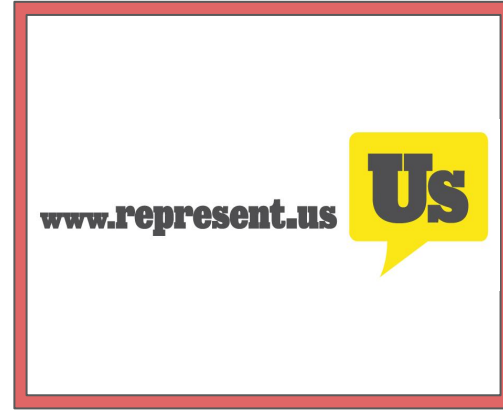
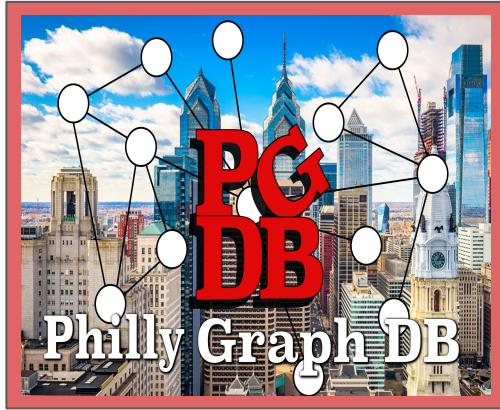


Coders & Creatives



# Who's involved ?

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The infographic is a circular graphic with a globe in the background. It features two stylized characters: a man with glasses and a blue hoodie on the left, and a woman with glasses and a white lab coat on the right. The content is organized into two columns, each with a header and several bullet points. The left column is for traditional marketing, and the right column is for digital marketing. The bottom of the infographic features a globe with various marketing-related icons like a megaphone, a laptop, and a bar chart.

## The Difference Between Traditional and Digital Marketing

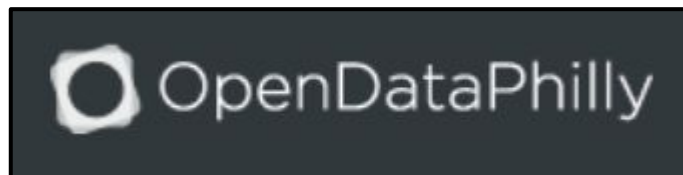
### TRADITIONAL MARKETING

- **Philosophy:** Data is the key to improving marketing accuracy and effectiveness.
- **Quoted Saying:** "Here are the ROI numbers for that last campaign."
- **Favorite Tools:** Pardot, Excel, Analytics, AdWords
- **Strengths:**
  - Organized
  - Detail-Oriented
- **Typical Projects:**
  - Forecasting
  - Lead Management
  - Reporting & Analytics

### DIGITAL MARKETING

- **Philosophy:** Data is the key to improving marketing accuracy and effectiveness.
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# Where can we start



Arts / Culture / History  
27 Datasets

Basemaps  
2 Datasets

Boundaries  
20 Datasets

Budget / Finance  
8 Datasets

Education  
17 Datasets

Elections / Politics  
29 Datasets

Environment  
56 Datasets

Economy  
28 Datasets

Health / Human Services  
41 Datasets

Parks / Recreation  
23 Datasets

Planning / Zoning  
47 Datasets

Food  
11 Datasets

Real Estate / Land Records  
58 Datasets

Transportation  
64 Datasets

Uncategorized  
2 Datasets

Public Safety  
27 Datasets

### / Datasets

Published  
Published (351)

Organizations  
City of Philadelphia (227)  
Delaware Valley Reg... (18)  
SEPTA (13)  
PA Bureau of Health... (5)  
Azavea (5)  
School District of... (4)  
Preservation Allian... (4)  
PhiladelphiaDANCE.org (4)  
PA Department of Ed... (4)  
U-Penn Cartographic... (4)  
Show More Organizations

Topics

351 datasets found

Order by: Relevance

Community Health Assessment, Philadelphia Department of Public Health  
The Community Health Assessment (CHA) is a systematic assessment of population health in Philadelphia, highlighting key public health challenges and assets and informing local...  
[HTML](#) [CSV](#)

People Released to Philadelphia from Prison & Jail  
This dataset includes people released to Philadelphia from the Philadelphia Department of Prisons (PDP) and the Pennsylvania Department of Correction (PA DOC). Individual-level...  
[visualization](#) [CSV](#) [shp](#) [geopoint](#) [api](#) [HTML](#)

Philadelphia Police Complaint Archive  
Late last year, the City of Philadelphia began posting online certain data about civilian complaints against the Philadelphia Police Department. The City will only make these...  
[CSV](#)

### OpenDataPhilly

Datasets Organizations Topics About Resources

/ Organizations / City of Philadelphia / Complaints Against Police

Complaints Against Police  
Followers  
2

Organization  
City of Philadelphia  
Explore open data from the City of Philadelphia and learn more about the City's effort to make more available. Open data is becoming a key part of the way governments conduct... read more

Social  
Google+ Twitter Facebook  
License  
Other (City of Philadelphia)

### Complaints Against Police

As part of the Philadelphia Police Department's (PPD) accountability processes, PPD has released two datasets: The Complaints Against Police (CAP) dataset documents the civilian complaints alleging police misconduct and the CAP Findings dataset provides demographic details of the police officer involved, the allegations, and the status of the PPD's Internal Affairs Division's investigation of and findings (if available) about the allegation. Includes data from 2013 to the present year. Updated monthly.

PPD Accountability Webpage

Data and Resources  
Complaints Against Police (CAP)  
Data from 2013 to the present year. Updated monthly. [Explore](#)  
CAP Findings (CSV)  
Data from 2013 to the present year. Updated monthly. [Explore](#)  
CAP Findings (API)  
Data from 2013 to the present year. Updated monthly. [Explore](#)  
CAP Complaints (CSV)  
Data from 2013 to the present year. Updated monthly. [Explore](#)  
PPD Complaints (API)  
Data from 2013 to the present year. Updated monthly. [Explore](#)

Additional Info  
Field Value  
0 Comments OpenDataPhilly  
[Recommend](#) [Share](#) [Login](#) [Sort by Best](#)

Chose a Topic

Search the Datasets

Get the Data



# Other datasets and how to get them

 OpenDataPhilly

kaggle

 DATA.GOV



data.world



City of  
Philadelphia



pennsylvania  
OFFICE OF OPEN RECORDS

## STANDARD RIGHT-TO-KNOW REQUEST FORM

DATE REQUESTED: \_\_\_\_\_

REQUEST SUBMITTED BY: ☐ E-MAIL ☐ U.S. MAIL ☐ FAX ☐ IN-PERSON

REQUEST SUBMITTED TO (Agency name & Address): \_\_\_\_\_

NAME OF REQUESTER: \_\_\_\_\_

STREET ADDRESS: \_\_\_\_\_

CITY/STATE/COUNTY (Required): \_\_\_\_\_

TELEPHONE (Optional): \_\_\_\_\_ EMAIL (Optional): \_\_\_\_\_

RECORDS REQUESTED: *\*Provide as much specific detail as possible so the agency can identify the information. Please use additional sheets if necessary.*

DO YOU WANT COPIES? YES or NO

DO YOU WANT TO INSPECT THE RECORDS? YES or NO

DO YOU WANT CERTIFIED COPIES OF RECORDS? YES or NO

**\*\* PLEASE NOTE: RETAIN A COPY OF THIS REQUEST FOR YOUR FILES \*\***

**\*\* IT IS A REQUIRED DOCUMENT IF YOU WOULD NEED TO FILE AN APPEAL \*\***

*FOR AGENCY USE ONLY*

RIGHT TO KNOW OFFICER:

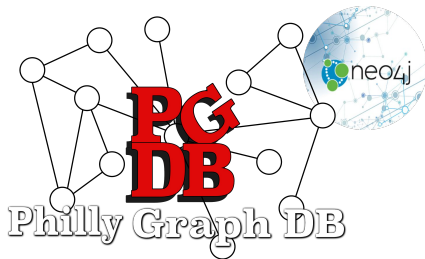
DATE RECEIVED BY THE AGENCY:

AGENCY FIVE (5) BUSINESS DAY RESPONSE DUE:

**\*\*Public bodies may fill anonymous verbal or written requests. If the requestor wishes to pursue the relief and remedies provided for in this Act, the request must be in writing. (Section 702.) Written requests need not include an explanation why information is sought or the intended use of the information unless otherwise required by law. (Section 703.)**

<http://www.openrecords.pa.gov/RTKL/Forms.cfm>

# What can we do with the Data?



CypherPhillyGet InvolvedSetup

Cypher Philly

### The Idea

Philly Graph DB and Code for Philly are starting a new initiative called Cypher Philly. The initiative is intended to inspire and equip citizen journalists, data enthusiasts and social activists with the tools and data to do good for the city and citizens of Philadelphia. There are a number of reasons why Philadelphia needs your help from public safety issues to beautifying shared public spaces, transportation updates or even unheard police complaints. Our goal is to harness the untapped potential of OpenDataPhilly.org which has hundreds of datasets that could help inform effective solutions to these problems. Topics range from Arts/Culture/History, Education, Elections/Politics, Transportation, Public Safety, Environment & much more. With a shared enthusiasm for making an actionable difference we believe you can help us make this initiative possible.

### The Code

Cypher Philly's first priority is to build web application tools which contributors can use collaboratively. These tools will help us to query the data were working with and allow us to share the results we've discovered. The Cypher Philly web application tool can be found on our GitHub page and is completely open source, so anyone can contribute to the code. Each new project that is spawned from this initiative will get its own web page.

### The Data

Additionally we need data experts to help in many aspects. Once a problem is identified by the journalist and a topic chosen to explore, we'll need data experts to start the data preparation phase. Wherein the data will need to be cleaned and modeled to fit the search parameters set by the journalists to tell a story. Afterwards the prepared datasets will be imported into the Cypher Philly project main databases. Your next task will be to set up query parameters for using Cypher Philly Neo4j Graph Database web application and the Cypher Query language to query the data. After the datasets are queried for each project, results will be displayed on the Cypher Philly website either in a visual, categorical, quantitative or any combination that helps tell the story of the data. The data findings from each project will then be summarized in conjunction with the journalist in order to draw conclusions from the results and build recommendations for actionable steps moving forward.

### Journalism

Most importantly we need Philadelphia journalists and citizens to help us identify problems that are most relevant to the data we have from Open Data Philly. Once we've identified the problems and datasets we'll be working with, we'll work with data scientists to determine what parts of the data are most relevant to telling the story. When the data scientists have concluded their analysis and published their findings, we'll need journalists to tell the stories we find in the data and how we can use the information to make actionable change.

Code for PhillyGet InvolvedCommunity/ContributeAbout

Search

CypherPhilly

### Cypher Philly

cypherphilly on github

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This repositoryAdditiveSci / cypherphilly

Unwatch4Star6Fork0

Decipher all things Phillyhttp://cypherphilly.org/

62 commits2 branches2 releases12 contributors

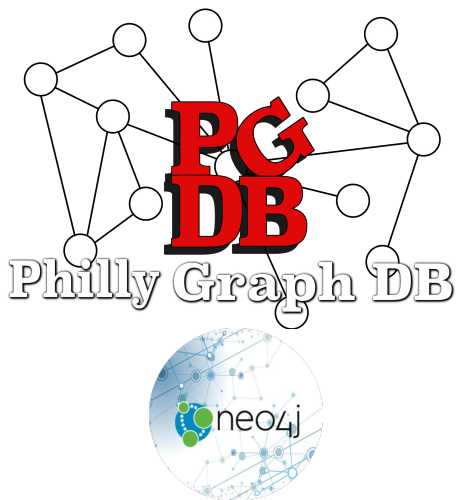
Branch: develop	New pull request	Create new file	Upload files	Find file	Clone or download
additive-mongo	Updating server to run as daemon				23 days ago
content	More content				18 days ago
cde	Installed Angular				2 months ago
scripts	Script updates database				a month ago
src	Disable prototype data tab				18 days ago
test/Features	Some test data				18 days ago
angular-cli.json	Updating to use SCSS				2 months ago
autoconfig	Installed Angular				2 months ago
gitignore	Setup the basic data server				a month ago
README.md	Update README.md				18 days ago
config-example.js	Setup the basic data server				a month ago
karma.conf.js	Installed Angular				2 months ago
package-lock.json	Version bump				18 days ago
package.json	Version bump				18 days ago
protractor.conf.js	Installed Angular				2 months ago
server.js	Updating server to run as daemon				23 days ago
tsconfig.json	Installed Angular				2 months ago
tslint.json	Installed Angular				2 months ago
README.md					

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This repository Search Pull requests Issues Marketplace Explore

AddictiveSci / cypherphilly

Code Pull requests Projects Wiki Insights Settings

Decipher all things Philly <http://cypherphilly.ly/>

62 commits 2 branches 2 releases 2 contributors

Branch: develop	New pull request	Create new file	Upload files	Find file	Clone or download
jsscoco Merge tag '0.1.1' into develop					Latest commit d8775b 18 days ago
configs					Updating server to run as daemon 23 days ago
content					More content 18 days ago
e2e					Installed Angular 2 months ago
scripts					Script updates database a month ago
src					Disable prototype data tab 18 days ago
test/fixtures					Some test data 18 days ago
.angular-cli.json					Updating to use SCSS 2 months ago
editorconfig					Installed Angular 2 months ago
.gitignore					Setup the basic data server a month ago
README.md					Update README.md 18 days ago
config-example.js					Setup the basic data server a month ago
karma.conf.js					Installed Angular 2 months ago
package-lock.json					Version bump 18 days ago
package.json					Version bump 18 days ago
protractor.conf.js					Installed Angular 2 months ago
server.js					Updating server to run as daemon 23 days ago
tsconfig.json					Installed Angular 2 months ago
tslint.json					Installed Angular 2 months ago

README.md

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This repository Search Pull requests Issues Marketplace Explore

AddictiveSci / cypherphilly

Code Pull requests Projects Wiki Insights Settings

Branch: develop cypherphilly / scripts / police\_complaints / create\_or\_update\_neo.js Find file Copy path

jsscoco Script updates database d6427b4 on Mar 7

1 contributor

Executable File 89 Lines (76 sloc) 2.25 KB Raw Blame History

```
1 #!/usr/bin/env node
2
3 var config = require('./../config');
4 var readline = require('readline');
5 var neo4j = require('neo4j-driver').v1;
6
7 var driver = neo4j.driver(config.connect, neo4j.auth.basic(config.neoUser, config.neoPW));
8 var session = driver.session();
9
10 var rl = readline.createInterface({
11   input: process.stdin,
12   output: process.stdout,
13   terminal: false
14 });
15
16 var stillHeading = true;
17 var processingCount = 0;
18
19 rl.on('line', processLine);
20
21 rl.on('close', function() {
22   stillHeading = false;
23 });
24
25 function processLine(line) {
26   processingCount++;
27   var data = JSON.parse(line);
28   session.run(
29     `MATCH (p: PoliceComplaint:PoliceComplaintData {cartodb_id: {id}}) RETURN p,
30     {id: data.cartodb_id}
31   );
32   .then(result => {
33     if (!result.records.length) {
34       console.log('Creating id:', data.cartodb_id);
35       console.log("Data:", data);
36     }
37     return session.run(
38       `CREATE (p: PoliceComplaint:PoliceComplaintData {
39         'cartodb_id': {cartodb_id},
40         'the_geom': {the_geom},
41         'the_geom_webmercator': {the_geom_webmercator},
42         'cap_number': {cap_number},
43         'date_received': {date_received},
44         'dist_occurrence': {dist_occurrence},
45         'general_cap_classification': {general_cap_classification},
46         'summary': {summary}}
47       );
48     }) RETURN p,
49     data
```

[www.github.com/AddictiveSci/cypherphilly](http://www.github.com/AddictiveSci/cypherphilly)



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# CypherPhilly

EditDelete

## Cypher Philly

[cypherphilly on github](#)

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[Code for Philly](#) [Get Involved](#) [Community/Connect](#) [About](#)  [Join](#)

## How to get involved

### With The Code

[CypherPhilly Github](#)

### With The Data

[OpenDataPhilly](#)

### With Journalism

### Journalistic Organizations Involved

[Journalistic Outlets in Philly Go Here](#)

### Project Collaboration:

### Community Project Boards

[Cypher Philly \[Trello Board\]](#)  
[Code for Philly\(Cypher Philly Project Page\)](#)

### Meetups

[Philly Graph DB Meetup Group](#)  
[Code For Philly Meetup Group](#)

### Tools and Technologies:

#### Neo4j

Neo4j is a graph database management system developed by Neo4j, Inc. Described by its developers as an ACID-compliant transactional database with native graph storage and processing, Neo4j is the most popular graph database according to DB-Engines ranking.

Neo4j is available in a GPL3-licensed open-source "community edition", with online backup and high availability extensions licensed under the terms of the Affero General Public License. Neo also licenses Neo4j with these extensions under closed-source commercial terms.

Neo4j is implemented in Java and accessible from software written in other languages using the Cypher Query Language through a transactional HTTP endpoint, or through the binary "bolt"

[www.codeforphilly.org/pages/cypherphilly](http://www.codeforphilly.org/pages/cypherphilly)

# Code for Philly Civic Engagement Launchpad 2018

Meetup event:

## **Civic Engagement Launchpad 2018: Work Day**

Discount Code:



**RocKeT2018**



Us



*Represent US*

# PENNSYLVANIA

**FIGHT CORRUPTION**

[www.representpennsylvania.us](http://www.representpennsylvania.us)



## Pennsylvania

GRADE: **F**(58)

RANK: **45<sup>TH</sup>**

Assessing the systems in place to deter corruption in state government

Click on each category for more detail

[OUR METHODOLOGY](#)

### Public Access to Information

GRADE: **D+**(68)

RANK: **4<sup>th</sup>**

### Political Financing

GRADE: **F**(41)

RANK: **43<sup>rd</sup>**

### Electoral Oversight

GRADE: **F**(41)

RANK: **48<sup>th</sup>**

### Executive Accountability

GRADE: **D**(64)

RANK: **19<sup>th</sup>**

### Legislative Accountability

GRADE: **F**(57)

RANK: **42<sup>nd</sup>**

### Judicial Accountability

GRADE: **F**(43)

RANK: **47<sup>th</sup>**

### State Budget Processes

GRADE: **C-**(73)

RANK: **30<sup>th</sup>**

### State Civil Service Management

GRADE: **F**(54)

RANK: **44<sup>th</sup>**

### Procurement

GRADE: **D**(64)

RANK: **38<sup>th</sup>**

### Internal Auditing

GRADE: **B-**(80)

RANK: **27<sup>th</sup>**

### Lobbying Disclosure

GRADE: **D-**(63)

RANK: **25<sup>th</sup>**

### Ethics Enforcement Agencies

GRADE: **F**(56)

RANK: **29<sup>th</sup>**

### State Pension Fund Management

GRADE: **F**(51)

RANK: **40<sup>th</sup>**

[www.publicintegrity.org](http://www.publicintegrity.org)

# How do we engage citizens?

- Highlight severity of problem
  - <http://letsfreecongress.org/>
- Increase “cues-to-action”
  - Create website for org
- Decrease barriers/Increase self-efficacy
  - Provide all information needed to take action immediately
  - Where can they find all meetings/elected officials/governing bodies in one place?



Technology!

# Put a Map on it!

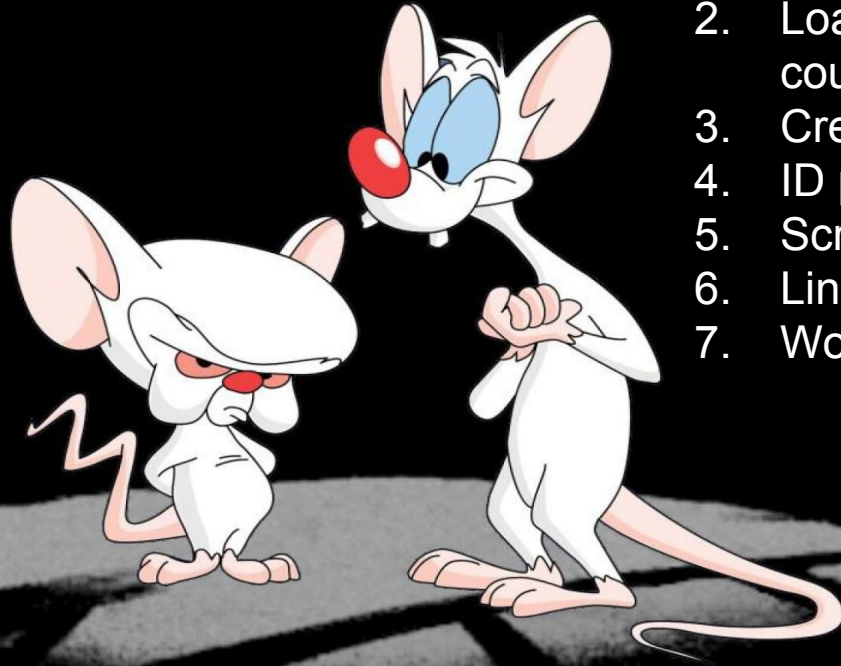
User can enter address into map search, returning all governing bodies they live within (districts, city, county, and state) to see:

- Date & time of public meetings
- Elected representatives for each governing body
- Links to associated websites

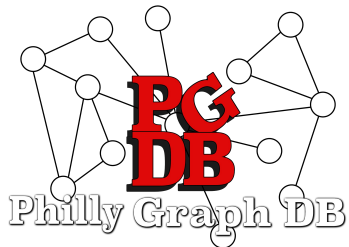
This data doesn't exist anywhere...except the web.



# So now what?



1. Build map
2. Load shapefiles for districts, cities, counties, state
3. Create search function
4. ID points in shapes magic
5. Scrape gvt sites for public meetings data
6. Linky link
7. World domination



**[www.CypherPhil.ly](http://www.CypherPhil.ly)**

[@PhillyGraphDB](https://twitter.com/PhillyGraphDB)

[www.meetup.com/Philly-GraphDB](http://www.meetup.com/Philly-GraphDB)



**#cypher\_philly**

[@CodeForPhilly](https://twitter.com/CodeForPhilly)

[www.codeforphilly.org](http://www.codeforphilly.org)

[www.represent.us](http://www.represent.us)



**[www.representpennsylvania.us/](http://www.representpennsylvania.us/)**

[@Ruvain51](https://twitter.com/Ruvain51) (Pennsylvania)

[@representdotus](https://twitter.com/representdotus) (National)

**[DATAPHILLY](http://www.opendataphilly.org)**



**[www.opendataphilly.org](http://www.opendataphilly.org)**

[@DataPhilly](https://twitter.com/DataPhilly)

[www.meetup.com/DataPhilly/](http://www.meetup.com/DataPhilly/)

**Let's Cypher Philly Together**

