<Coding Club>

BEAU HARRISON

Accelerator Division

Operations

ENCLOSURE STATUS

Linac	No Access	Xport US/DS	No Access	M05	No Access
MTA	No Access	Xport Mid	No Access	MT6-1	Open
Booster	No Access	Delivery	No Access	MT6-2	Open
MI8	No Access	Muon Ext	No Access	MC6	No Access
MI12A	No Access	Muon MC1	Open	MC7	Open
MI12B	No Access	T-Hall	No Access	MB7	No Access
MI10	No Access	Enc B	No Access	G2	No Access
MI20-MI62	No Access	Enc CDE	No Access	N01	No Access
MI65	No Access	F1	No Access	NM2	No Access
MINOS Alc	No Access	F2 F3	No Access	NM3	No Access
MINOS Abs	No Access	M01	No Access	NM4	No Access
F-Sector	No Access	M02	No Access	NML	Open
Pre-Target	No Access	M03	No Access		
Pre-Vault	No Access	M04	No Access	App Status:	09:36:54

SHIFT ROSTER

Ops Shift Roster

Shift Title

Day Shift Roster

Operators

Maxwell Monningh ● CC

Cassidy Mayorga ○ CC

Christopher Olsen ○ CC

Kelli Rubrecht ○ CC

○ CC

Submit

SINGLE BOARD COMPUTER ACNET SENSORS

ACNET (ACcelerator NETwork) is the hardware and software infrastructure for reading from and making changes to the accelerators.
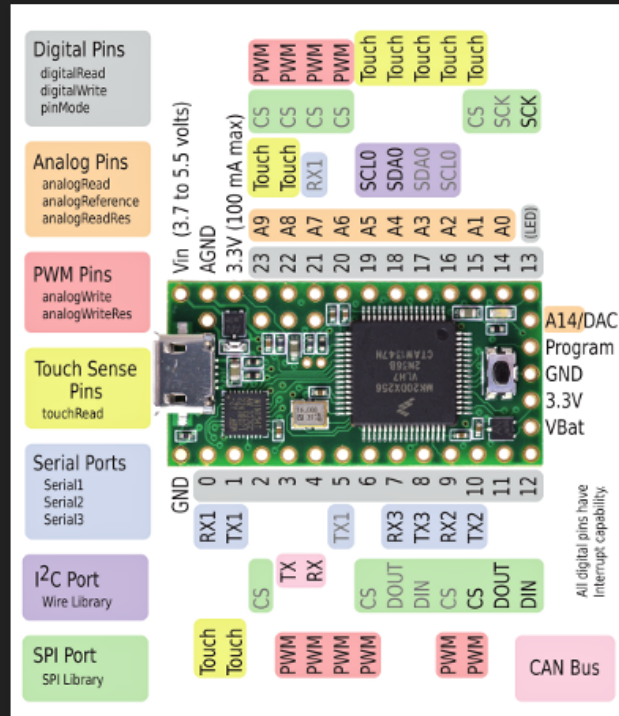
SINGLE BOARD COMPUTER

Raspberry Pi

Python running on Linux

ANALOG TO DIGITAL CONVERTER

Arduino

Arduino flavor of C

DATA VISUALIZATION

Liberal

Conservative

80%   60%   40%   20%   0%

Center-left

Center-right

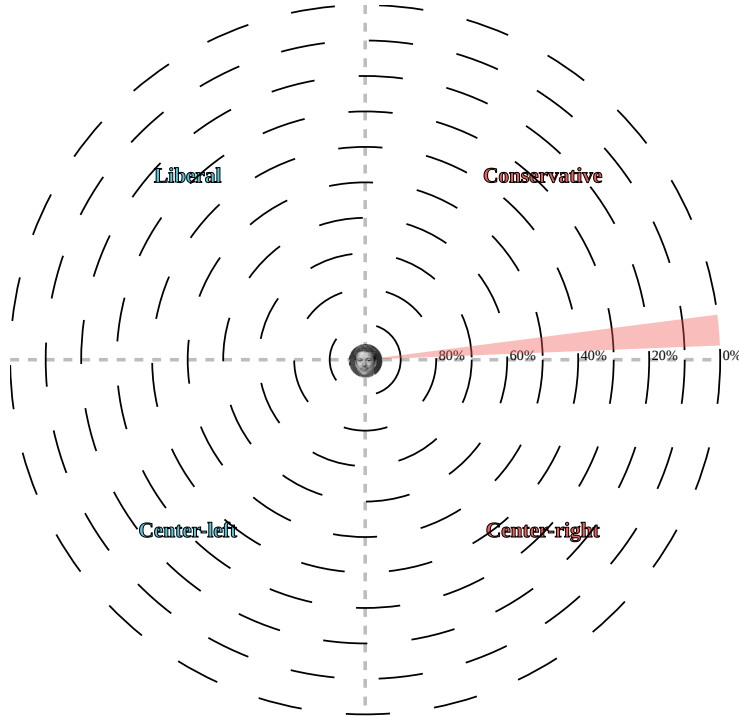**Voting Patterns of Senators**

The dark stroked circle at the center is the selected senator. The distance between the senator and other senators around him/her defines the voting similarity score. Closer to the center greater the similarity in voting pattern and vice versa. The arc position is the senator's ideology score. The ideology score is a scale from 1, being most liberal, to 0, being most conservative.

Click on any senator to view the Voting Similarity score.

● Rep ● Dem ● Ind

Paul (R-KY)
Ideology score: 0.76

This visual is a modified version of [Grameners Senate Similarities](#).

The ideology score is from [GovTrack](#).

CODING CLUB OBJECTIVE

- Share resources
- Learn new tools

MY EVERYDAY RESOURCES

- Google
- Stack Exchange
- YouTube
- Podcasts

GOOGLE

- Use simple language
- Quotes
  - "I need this exact phrase"
- Site search
  - site:fnal.gov cafeteria menu
- Exclude terms
  - Ford Mustang -red
- OR operator
  - puppies OR kittens OR dolphins
- Wildcard
  - how to find * on Google

STACK EXCHANGE

Self-moderating question-and-answer site

YOUTUBE

- freeCodeCamp - Web development
- GameDevLessons - Speed coding
- Layout Land - CSS design
- The Coding Train - Machine learning
- Derek Banas - C and C++, many others
- Ben Eater - Electronics, computer architecture, and networking
- Crash Course - Many topics
- Khan Academy - Economics, math, and science
- CS Dojo - Python
- DevTips - Web design

PODCASTS

- Syntax

QUESTIONS?

FUTURE PRESENTATIONS

- Android App
- Bash
- Functional programming
- Regular expressions
- ACNET
- Robot