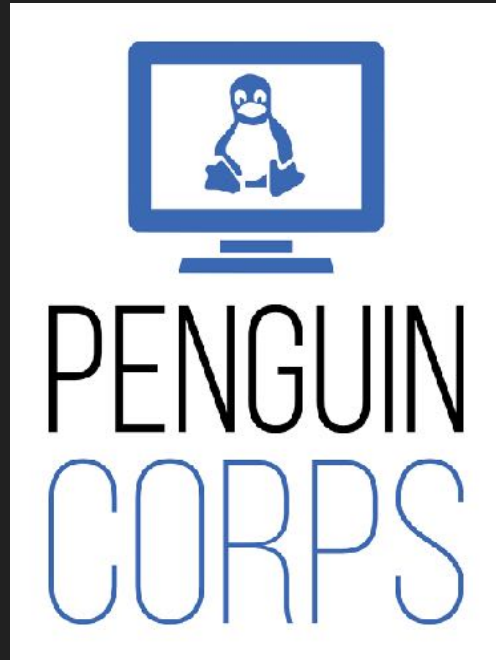


# Open Source Belongs in School. Let's Put it There!

DrupalCon  
Global  
2020

Stu Keroff  
and  
The Penguin Corps



[bit.ly/pcdcg20](https://bit.ly/pcdcg20)

# Penguin Corps Pledge

Leader: "What are we trying to do?"

People: "Change the world!"

Leader: "How do you change the world?"

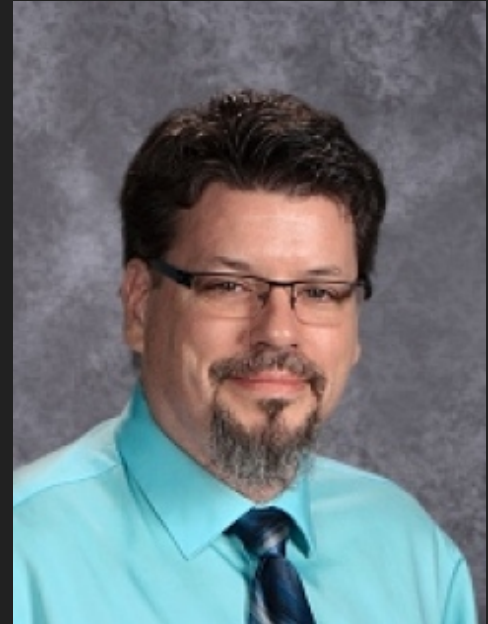
People: "Be crazy enough to think you can!"

# Penguin Corps Agenda

1. Leader (Joel) calls meeting to order
2. Stu Keroff - Introduction and history
3. Michael - Activities and impact
4. Sophie - Diversity and inclusion
5. Cam - Our Response to COVID-19
6. Chase - Why have an open source club?
7. Mohamed - How to do this
8. Q & A

# A Little Bit of History

Mr. Stu Keroff  
Social Studies & Tech Teacher  
Penguin Corps Director  
Aspen Academy -- Savage, MN





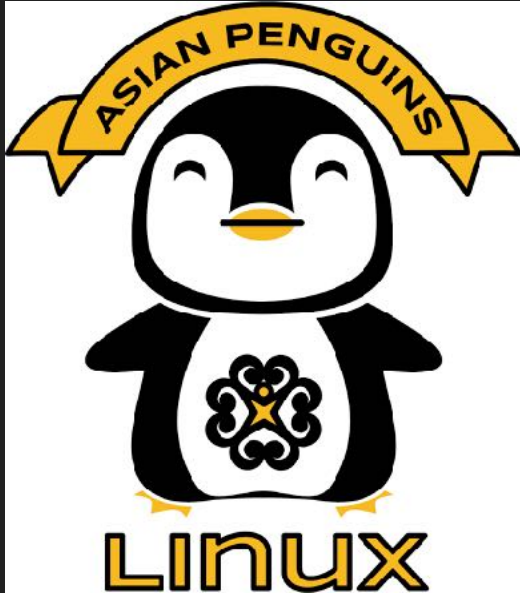
# Working on computers



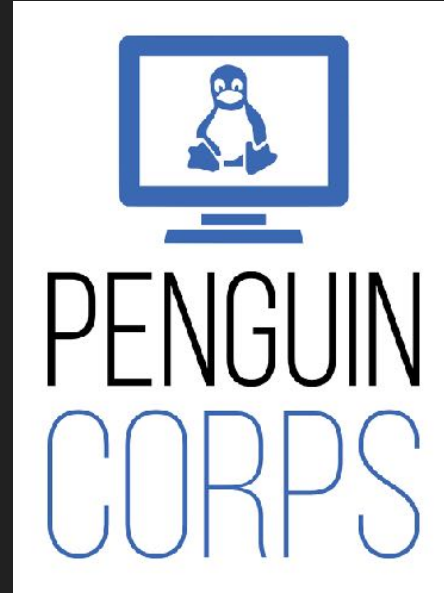
What if I told you...



# Linux clubs in Minnesota



Community School of Excellence  
Saint Paul



Aspen Academy  
Savage

# Community School of Excellence



# The Beginning 2011-2012

CSE starts 1:1



# The First Group of Penguins





# Linux Powered Stuff



# Technology Partners





# Digital Divide



# Operation Upgrade



# The Asian Penguins – June 2017





# Aspen Academy -- Savage, MN



# Introducing the Penguin Corps -- 2019



# The formula

- Get computers
- Have kids recycle computers
- Give computers away

# Activities & Impact of the Penguin Corps

Michael Martyn  
Grade 5

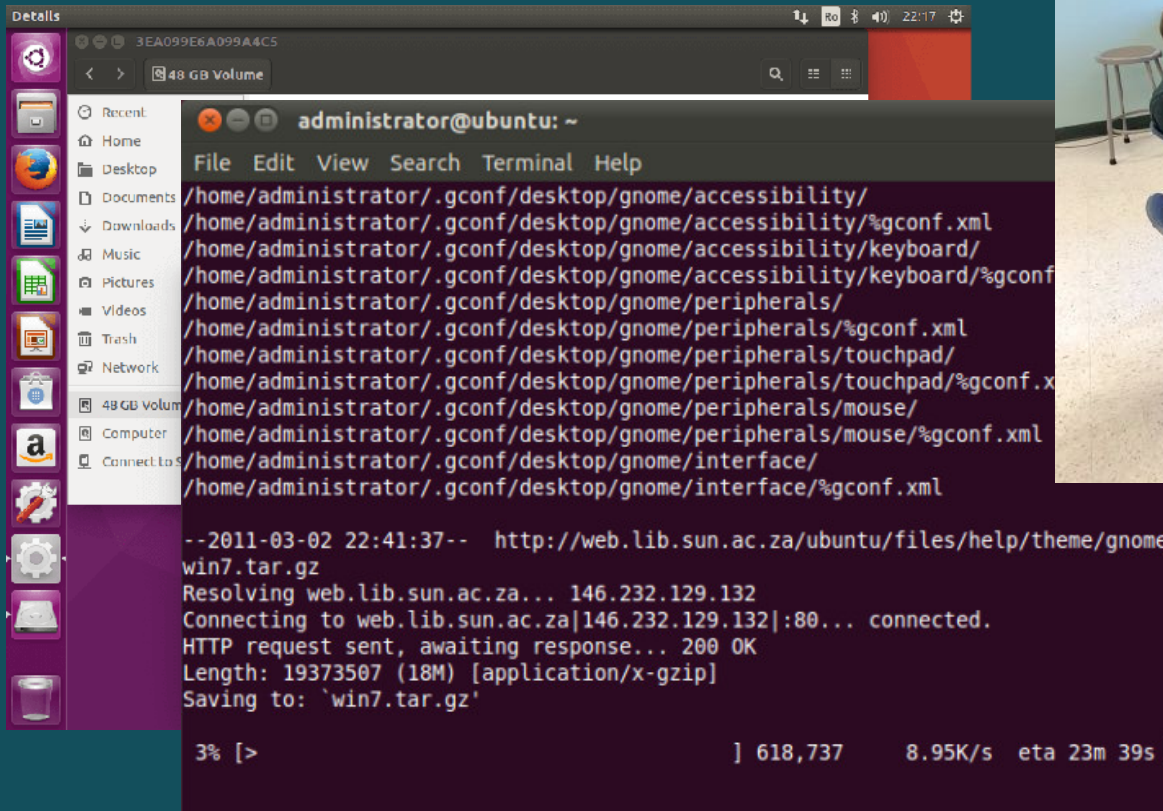


# Club Meetings





# Software Lessons

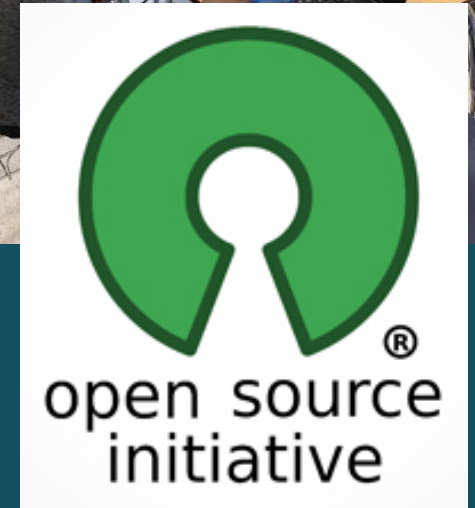


```
Details
3EA099E6A099A4C5
48 GB Volume

administrator@ubuntu: ~
File Edit View Search Terminal Help
/home/administrator/.gconf/desktop/gnome/accessibility/
/home/administrator/.gconf/desktop/gnome/accessibility/%gconf.xml
/home/administrator/.gconf/desktop/gnome/accessibility/keyboard/
/home/administrator/.gconf/desktop/gnome/accessibility/keyboard/%gconf.xml
/home/administrator/.gconf/desktop/gnome/peripherals/
/home/administrator/.gconf/desktop/gnome/peripherals/%gconf.xml
/home/administrator/.gconf/desktop/gnome/peripherals/touchpad/
/home/administrator/.gconf/desktop/gnome/peripherals/touchpad/%gconf.xml
/home/administrator/.gconf/desktop/gnome/peripherals/mouse/
/home/administrator/.gconf/desktop/gnome/peripherals/mouse/%gconf.xml
/home/administrator/.gconf/desktop/gnome/interface/
/home/administrator/.gconf/desktop/gnome/interface/%gconf.xml

--2011-03-02 22:41:37-- http://web.lib.sun.ac.za/ubuntu/files/help/theme/gnome
win7.tar.gz
Resolving web.lib.sun.ac.za... 146.232.129.132
Connecting to web.lib.sun.ac.za[146.232.129.132]:80... connected.
HTTP request sent, awaiting response... 200 OK
Length: 19373507 (18M) [application/x-gzip]
Saving to: `win7.tar.gz'

3% [>] 618,737 8.95K/s eta 23m 39s
```



FLOSS Desktops for Kids

# Digital Citizenship



# Refurbishing Computers





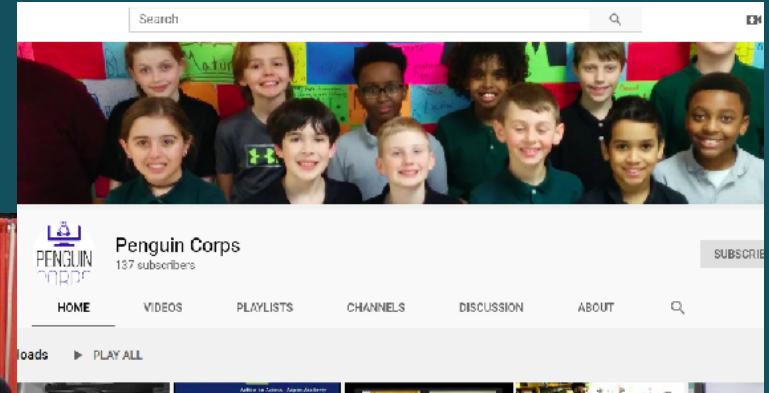
# Conferences and YouTube



Sourcewell Impact Education  
Conference 2019



Minnesota School Board  
Association 2020



Penguin Corps  
YouTube Channel

# Party Time



# Impact



# Diversity and Inclusion

Sophie Svela  
Grade 5





# Tech History





# Women in Tech History



Admiral Grace Hopper -- Computer Pioneer

# Hidden Figures



Katherine Johnson



Dorothy Vaughan



Mary Jackson

# Today?

95%

of people in open source  
are men.

16%

of people in open source  
are members of minority  
groups.

# The Asian Penguins



# The Penguin Corps



Diversity:  
African-American  
Biracial  
Indian  
Kenyan  
Somali  
White

**20% Girls!**



# Going forward



# Our Response to COVID-19

Cam Citrowske  
Grade 5



# Schools closed for Distance Learning

**MPRnews**

Sections ▾

Members ▾

More ▾



**ON AIR** 0:00

The World with Marco Werman

COVID-19

## Walz announces temporary closure of Minnesota K-12 public schools

MPR News Staff March 15, 2020 3:36 a.m.





# Learning from home



# Survey to find needs

## Aspen Academy eLearning (online) Survey

\* Required

Parent Name (First and Last) \*

Your answer

Email Address \*

Your answer

Does your child have access to a computer at home to receive lessons and complete eLearning assignments? \*

# Getting computers ready



# Campaign to get more computers



**Stu Does Linux** 🌱  
@studoeslinux

[#DistanceLearning](#) in MN for the rest of the school year. Need for tech continues, too. If you're an individual or business with gently used laptops, msg me on Twitter or email [studoeslinux@gmail.com](mailto:studoeslinux@gmail.com). You can make a difference. The time is NOW!  
[#edtech](#) [#digitalequity](#) [#Linux](#)



4:04 PM · Apr 23, 2020 · [Twitter Web App](#)



# More come in





# Result



- 60 computers given away
- Total cost: \$900.00
- Average cost: \$12.33

Digital Divide -- CLOSED!

# Reaching out beyond our school



# Victory



# Why Have an Open Source Club?

Chase Walgrave  
Grade 5  
Club Secretary





# Linux is Free

- Free to get
- Free to use for any purpose
- Free to change
- Free to give away





# Great on Old Computers



# Kids Learn



# Open Source Jobs Report:

- 83% of hiring managers say open source talent is important
- 87% said hard to find qualified help



Source: 2018 Open Source Jobs Report  
from the Linux Foundation

# Affordable Program for Schools

- Used computers are cheap.
- People will donate computers.
- People will also donate money.

Computers donated by Caribou Coffee



# Helping



Computers for families



Computers for school



# Fun!



```
stukeroffhome@stukeroffhome-ThinkCentre-M90z ~  
File Edit View Search Terminal Help  
stukeroffhome@stukeroffhome-ThinkCentre-M90z:~$ cowsay howyadoin?  
  
< howyadoin? >  
-----  
  \   ^__^  
   (oo)\_____  
      (  )  /)\_____  
         ||----w |  
         ||     ||  
  
stukeroffhome@stukeroffhome-ThinkCentre-M90z:~$
```



# Where to from here?



# How to Get Started

Mohamed Jamal  
Grade 6  
Club Vice President



# Supervisor

No Experience  
necessary



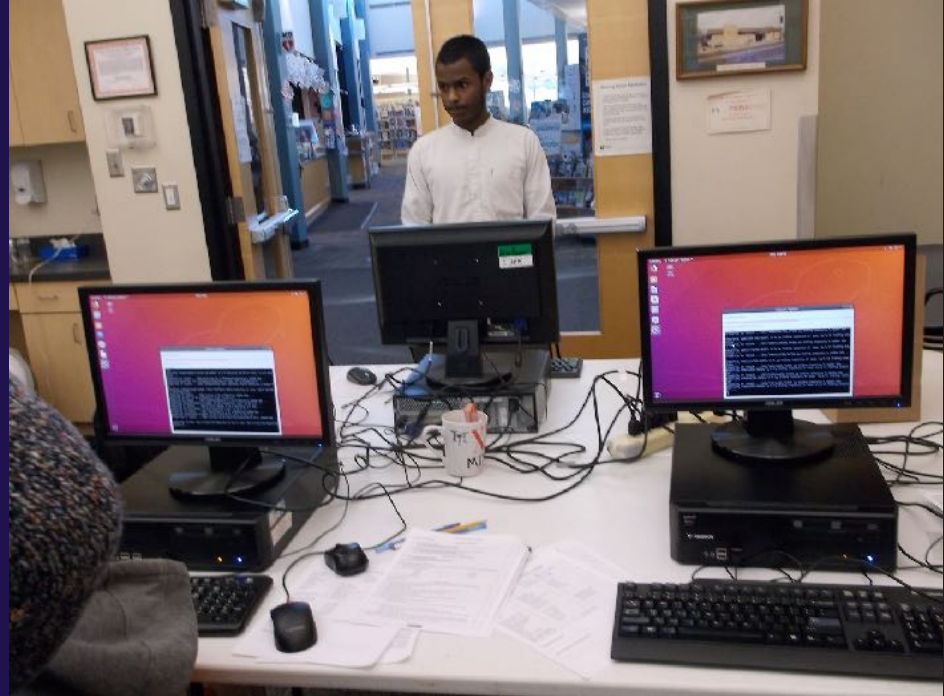
# Getting the “Go Ahead”





# Computers

Do not have to be new



# Software



# Kids



# Space and Time



# Start Small

Try Linux yourself.

Get computer to try it on.

[www.ubuntu.com/download](http://www.ubuntu.com/download)

<https://xubuntu.org/download/>


[www.distrowatch.com](http://www.distrowatch.com)






# The Linux Club Guide

☰ The Linux Club Guide 🔍



## The Linux Club Guide

How to engage your students, help your community, and transform your school with Linux.



[www.linuxclubguide.com](http://www.linuxclubguide.com)

# Recruit Kids



# Get Computers



# Hardware and Software Lessons





# Closing Your Digital Divide



## The Formula:

- Get computers
- Have kids recycle computers
- Give computers away



Do you want to  
change the world?

# Q & A Time

Does anyone have a question?

Please put a “Q” in front of your question in the chat box.

# Contact Information

Email: [studieslinux@gmail.com](mailto:studieslinux@gmail.com)

Twitter: [@studieslinux](https://twitter.com/studieslinux)

Linux Club Guide: [www.linuxclubguide.com](http://www.linuxclubguide.com)

Penguin Corps YouTube: <https://>

[www.youtube.com/c/PenguinCorps](http://www.youtube.com/c/PenguinCorps)