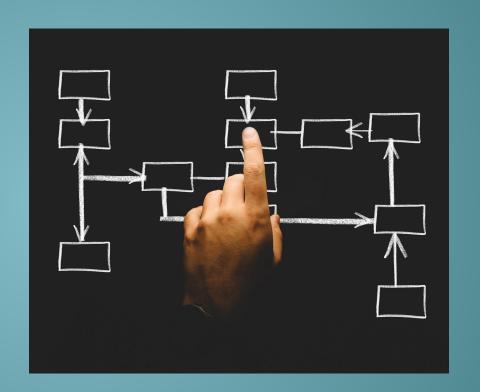
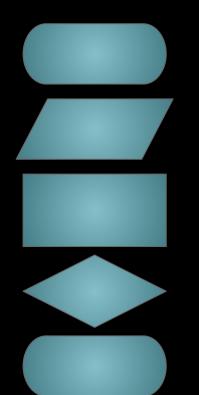
Responsive Workflow

For 3D print queue management







Where we Started

Demand

Workflow Adjustments

Lessons Learned

Where we're going



Mediated Access





4 FT staff, 2 IT

We later added 4 part time staff



3 Ultimaker printers

We immediately added a 4th



O restrictions

We added some of these pretty quickly too

Our 3D Printers

Ultimaker 2
Sir
Prints-A-Lot

Ultimaker 3 *Maryam's Favourite*



Ultimaker 2 Extended **Printcess Filamina**

Ultimaker 3
Fresh
Printz of
Bel-Air

Initial System Criteria

- Multiple technicians
- Track print process and conversations w/ users
- Easy for front desk staff to check status
- Customizable
- Reporting capability





We *quietly* went live with our 3D printing service today, recieved 6 print jobs in the first 20 minutes

6:35 PM - 10 Sep 2018

System Limits



1 print job at a time



1 object/print job



academic priority

Service Limits





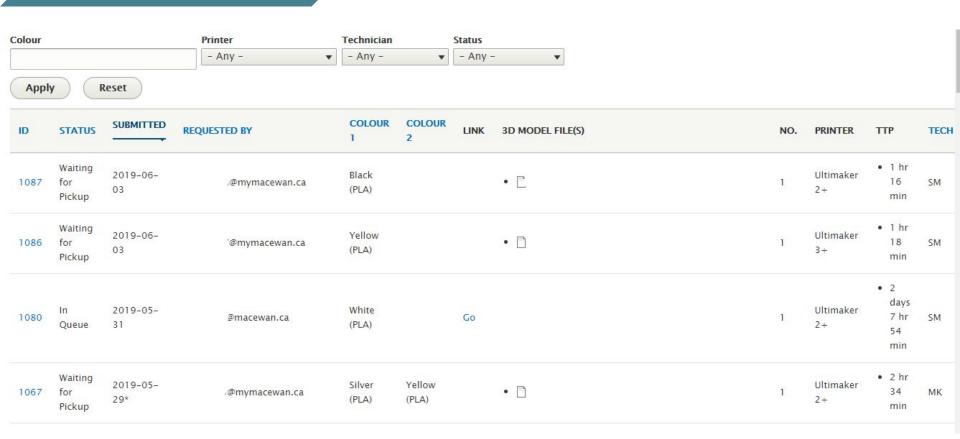


Form

Martina King kingm10@macewan.ca

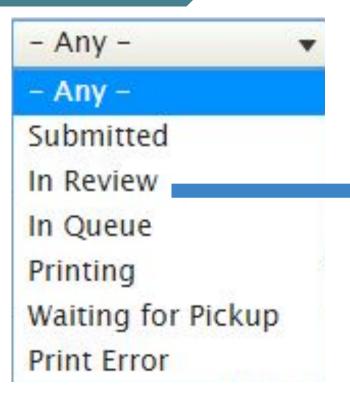
Course			
Course			
			<u> </u>
Please provide if this p	rint request is related to c	oursework.	
Colour * - Select -			
- Select -	•		
Second colour or m	aterial - Select -	*	
How to set up your obje	ect with two colours.		

Views



Status & Details

Status:



Date Submitted: Friday, May 10, 2019

Due Date: 2019-05-24

Date Completed: Tuesday, May 21, 2019

Print Status: Waiting for Pickup

Program/Faculty/School/Department

ITS

Number of Copies: 1 Colour: Black (PLA) Thingiverse Link

https://www.thingiverse.com/thing:1031950

Notes

It says the hook is 19mm which I assume is the be fine for me, if that works for the printing.

Copyright: Yes

Reuse: No

Permission: Yes

Printer: Ultimaker 3+

Printing Time

7 hr

Gcode File(s)

UM3_Headphone_Hook_19mm (1).gcode

Technician: Martina King

2018/19 # 424 print jobs

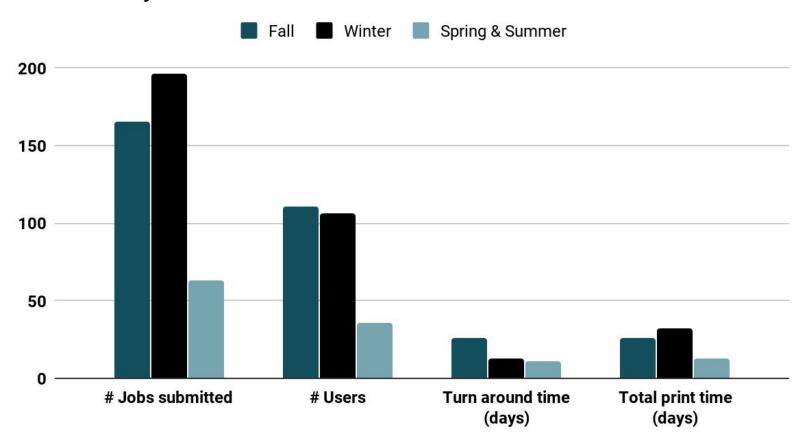


Top 5 users submit 7-16 print jobs/semester

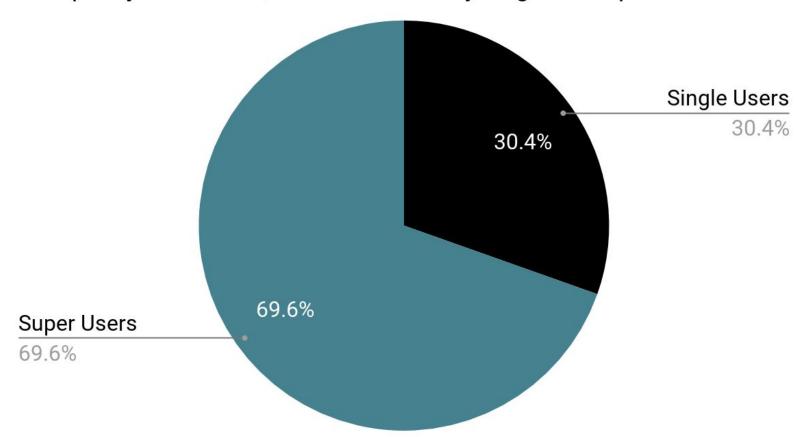


Approx. 74 days of printing time 4h 46 min avg/job

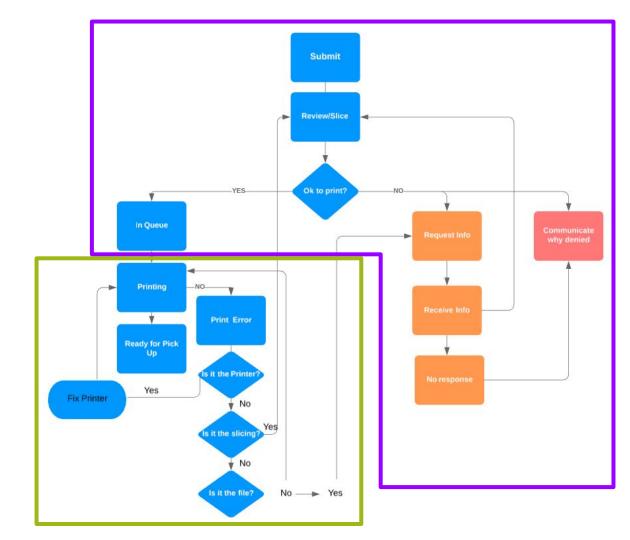
2018/19 By Semester



% of print jobs in 2018/2019 submitted by single vs. super users



Specialization In Workflow

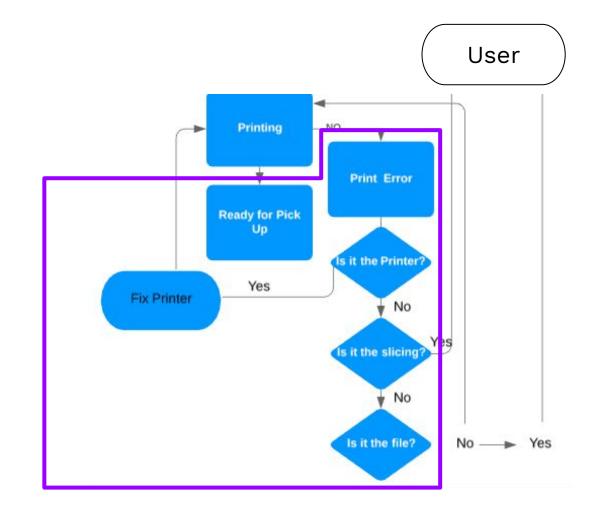




Direct Access



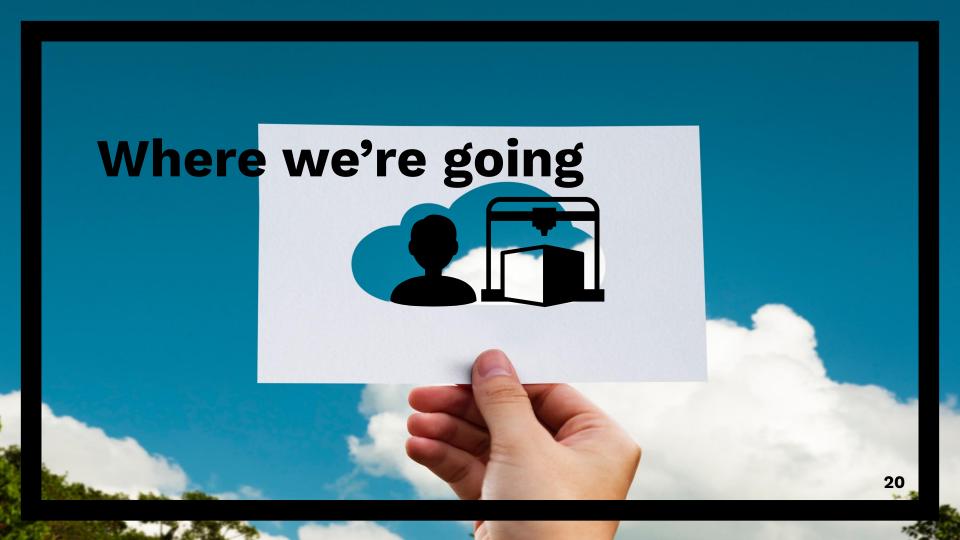
Self Serve Pilot



Lessons Learned



IF WE HAD TO DO IT AGAIN...





Resources

https://github.com/macewanulib/emerging_technology

Thanks!

Any questions?

You can find us at

- Martina King, kingm10@macewan.ca
- Dave Pearson, pearsond@macewan.ca

