

# Operating Systems used by HU Students

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## Introduction

College students need a way to conveniently do their work due to recent events these past couple of years with covid-19. According to Statcounter, as of March 2022, We expect to collect data through google forms or polls in social media, will be sent to Harrisburg University

## Hypothesis

We hypothesize that about 80% of Harrisburg University students use Windows as their main operating system.

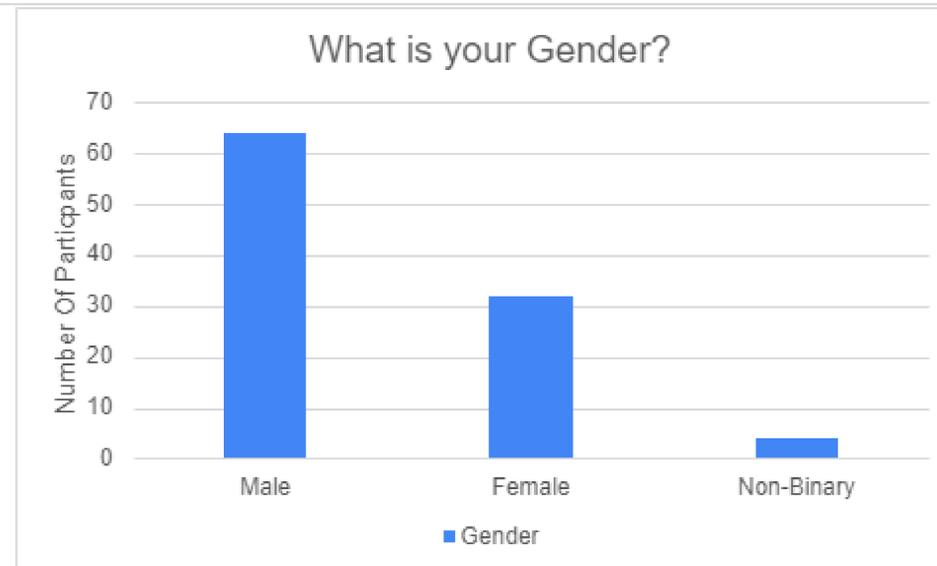
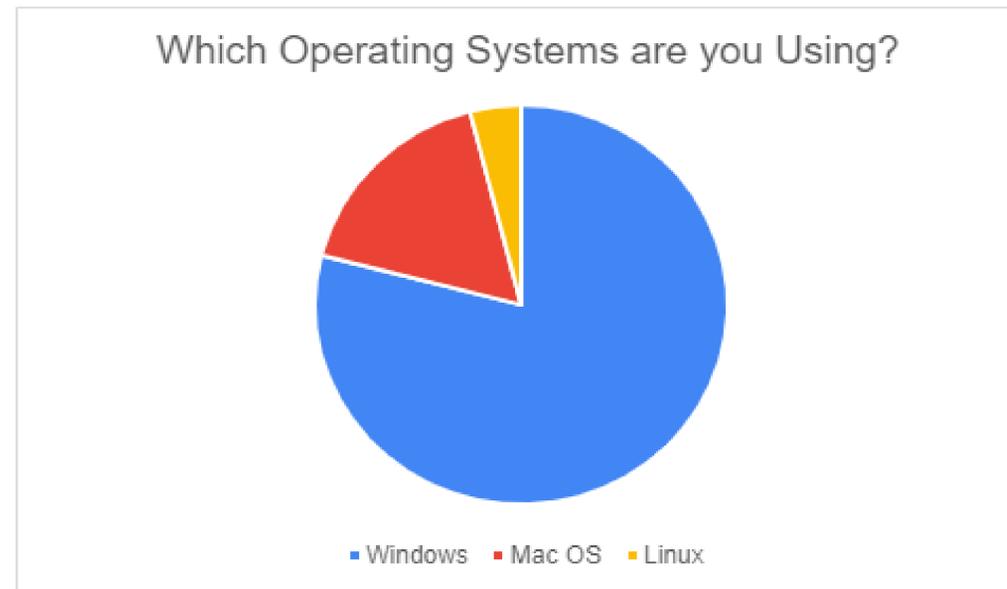
We have found that college students use one of three operating systems Windows, Linux, MacOS, with Windows and MacOS being the most prevalent.

## Methods

The questions that we asked consisted of the questions "What is your age?," "What is your gender?" "What is your intended major?," and "What Operating System using?" (as well as the distribution of the OS if applicable). The sample size of the survey and the data that we collected was 100 applicants surveyed.

## Results

Most of the participants were male at 64%, then 32% female, and 4% non-binary. Age ranges from 17 to 23 with a majority of people being 19 at 34%. A majority of participants were also freshman with a 46%. 27% of the 100 people asked were computer sciences majors, which is the most comparatively. When it comes to actual operating system used, 79% uses windows, 17% use MacOS, and 4% percent uses Linux, all of the Linux being a different distribution.



## Statistical Analysis

Null hypothesis	P = 0.80
Alternative hypothesis	P < 0.80
Confidence level	95, z=1.96
Significance level	5%, 0.05
Test statistic	-0.25
P-value	0.413
Margin of error	8%
Confidence Interval	0.71 < p < 0.87

## Conclusion

We reject our original hypothesis in favor of our alternative hypothesis, because the user percentage of students at HU was below 80 percent proving to be true.

## References

StatCounter. (2022, March). *Desktop Operating System Market Share Worldwide* | Statcounter Global Stats. StatCounter Global Stats. <https://gs.statcounter.com/os-market-share/desktop/worldwide>