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## **When and How to Introduce Students to Free and Open-Source Software**

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# 1 Introduction

## 1.1 Follow Along

- See the link to presentation handout on Tech Summit Website! <[www4.gvsu.edu/gvtech-summit](http://www4.gvsu.edu/gvtech-summit)>

## 1.2 Disclosures and Disclaimers

- I have no disclosures or conflicts-of-interests related to this presentation
- I am not a software engineer, computer scientist, or other technology-oriented professional by training - but am an enthusiast and hobbyist

## 1.3 Learning Objectives

- Appreciate *why* we should pay attention to how software is published and priced (Sections: [Motivation](#) and [Purpose](#))
- Understand the vocabulary used to describe pricing models and source code availability in software (Section: [Vocabulary of Software Availability and Pricing](#))
- Appreciate both the advantages and disadvantages of adopting open-source alternatives into instruction (Section: [Advantages and Challenges](#))
- Consider the ways in which exposure to different tools and methods produces more technology-literate students (Section: [\[\]](#))
- Learn about some methods to bring more diverse software to students (Section: [Examples of Integration](#))

## 1.4 Motivation

- The four “Evil” Es of software
    - Software is everywhere - it's always all around us
    - Software is essential - it's a common requirement of navigating the world
    - Software is elaborate - but it doesn't look it!
    - Software is expensive - and keeps getting more so!
  - I want my students able to navigate these “Evil Es” during and after college, and not feel lost
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## 1.5 Purpose

- Following the liberal arts mission of creating well-(tech)-rounded students
  - Exposing students to more alternative tools
  - Seeing the similarities, differences, and quirks of each tool
  - When they encounter new software they can adapt easier
- Supporting projects and software that are free in a time of increasing prices
  - Push back against reliance upon subscription-based tools
  - Show students how to build their portfolio and skill set without incurring additional financial burden
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## 2 Vocabulary of Software Availability and Pricing

### ! Important

There's a lot of different ways to describe software price models, be discerning when looking at options!

## 3 Examples of Integration

### ! Important

There are several routes to integration of open-source tools, but all focus on flexibility and agency!

## 4 Advantages and Challenges

### ! Important

Introducing open-source tools brings benefits and drawbacks, but the good outweighs the bad!

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## 4.1 References

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