

Multimedia

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## Purpose

The purpose of the media is to provide instruction on the topic of Git Version Control software. The video(s) provided on the course page will be broken up into small sections that can be introduced into a classroom environment for an instructor to pass on to students.

## Target Audience

The target audience is 10 years and older. The videos are targeted to students and instructors.

Instructors can use the video micro-courses to introduce STEAM into their curriculum without having to learn the content on their own free time without pay.

## Video URLs

All videos can be accessed from the micro-course page. I've also provided the direct YouTube link.

Page hosting the video

<http://edudevteam.com/courses/git-version-control/course.html>

Not secure | http://edudevteam.com/courses/git-version-control/course.html

Official Texas Driver... Chocolatey Gallery... Bitdefender Antir... Logic Puzzles Office 365 Login... Payroll Employee P... Education Masters

EDT

home about

What is version control

Version Control

Copy link

Ver. 1 Ver. 2 Ver. 15

Watch on YouTube

1, What is Version Control

2, What is Git

3, Downloading Git for Windows

4, Installing Git for Windows

OVERVIEW CLASSROOM ANNOUNCEMENTS

**About this course**

Learn how to track, review, and rollback to almost any change made to a file or folder. Git Version Control is free software and comes preconfigured with tools like Microsoft Office and Google Docs.

**Additional Resources**

GIT SOURCE TREE OFFICE 365 GOOGLE DOCS

**Categories**

free, version control, git

YouTube Link

What is version control: <https://youtu.be/4Ucrt8r-urQ>

## Video Editing Process

To produce the videos, I first drafted the a generalize document breaking up the topic of Git version control into smaller sections that were short enough to keep the attention of an average viewer.

Next, a draft of content is written up as a guide for myself when I am creating the recorded video screen capture.

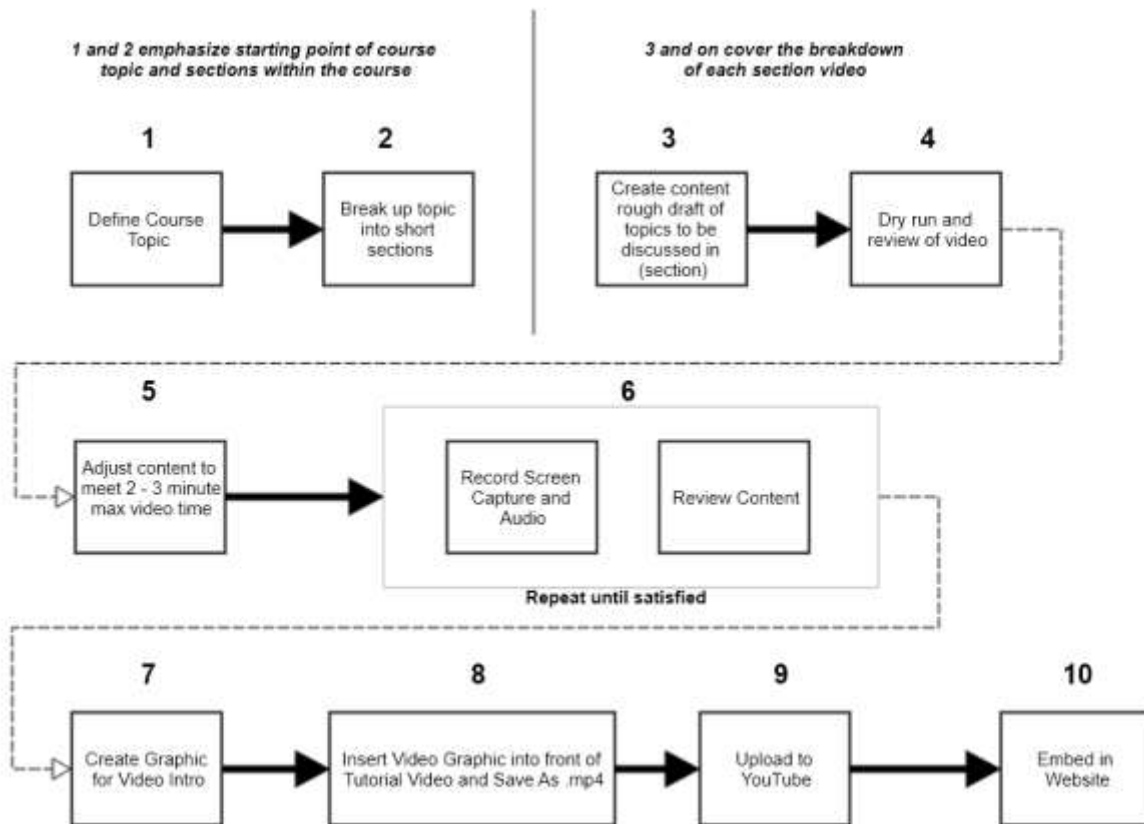
1. Once the draft is to a point that is clear and concise the next step for the production of the micro course is to spin up a virtual environment using Virtual Box. Virtual box is tool that allows a user to create virtual operating system in a window use it like you would any other operating system. For the downloading and installation videos I created fresh copies of Windows, Mac, and Linux to guide beginners in the videos.
2. After the Virtual Environment is running, I then open my video screen capture software Snagit by Techsmith. Using Snagit an exact capture of the virtual operating system is framed within the Virtual Box software only showing the operating system.
3. It's time to begin recording. I click the on the record button to capture the tutorial. Once done, I click the stop button. The video loads into the Snagit preview editor allowing me to review any issues and allows me to make minor edits. The video is then saved.
4. Next, an intro graphic is created using the Affinity Designer by Serif. The graphic color and layout are defined for the entire micro-course giving each video a simple relationship to that micro-course. The graphic is then exported to a PNG.
5. Now the video and graphic are opened with the Shot Cut video editing software. The image is placed in front and at the end of the video. The video is then re-exported to a compressed MPG format.
6. Next the video is uploaded to YouTube and placed within its micro-course group.
7. After uploading is complete, it is linked in the EduDevTeam.com website course page.

The following tools are used to create the development environment and videos.

- Snagit was used to record the screen capture
- Power Point was used to define the videos with slides
- VirtualBox was used to create fresh virtual copies of Windows, Mac, and Linux so I could effectively guide the learner as if I was on a machine that had never installed any development tools.
- YouTube is where the videos are hosted
- Affinity Design to create the video intro screens
- Shot Cut Video Editing software to add in intro screens at the start and end of each video.
- Videos are then loaded back into the EduDevTeam.com website using JavaScript.

# Conceptual Framework

## Process of Development



## Benefits of the design and structure

The flowchart above effectively describes the process of producing a video for the micro-course. The key points to focus on are stages 1 and 2 which cover importance of breaking up the tutorial into smaller sections. This a key factor used to keep the learner's attention and allow them to pace themselves. This thought is further supported in stages 5 and 6. Stage 5 emphasizes the max time limit. Two minutes is ideal, but three minutes is still acceptable. There will be times when the max time limit cannot be matched, and this will be pointed out within the instruction. Stage 6 is the content review. In this stage I

may either clip out sections of content or I may re-record the entire video multiple times until it meets my standards of understanding.

To effectively tie all the sections within a micro-course together an intro cover template is created. Once designed, each video will retain the colors and look of the template. The only change will be the text.

After the cover is exported as an image, the tutorial and cover image are imported in the Shot Cut video editing software. The cover placed in front of the tutorial video on the video timeline and exported as a .mp4 file ready for YouTube.

The video is then uploaded to my YouTube channel and placed within a playlist to match the micro-course title.

Finally, the video is referenced within website and made available on the websites micro-course page dynamically.

## References

Meltytech, LLC. (2021). *Shotcut - Home*. Retrieved from Shotcut: <https://shotcut.org/>

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