CFS Digital Scoreboard
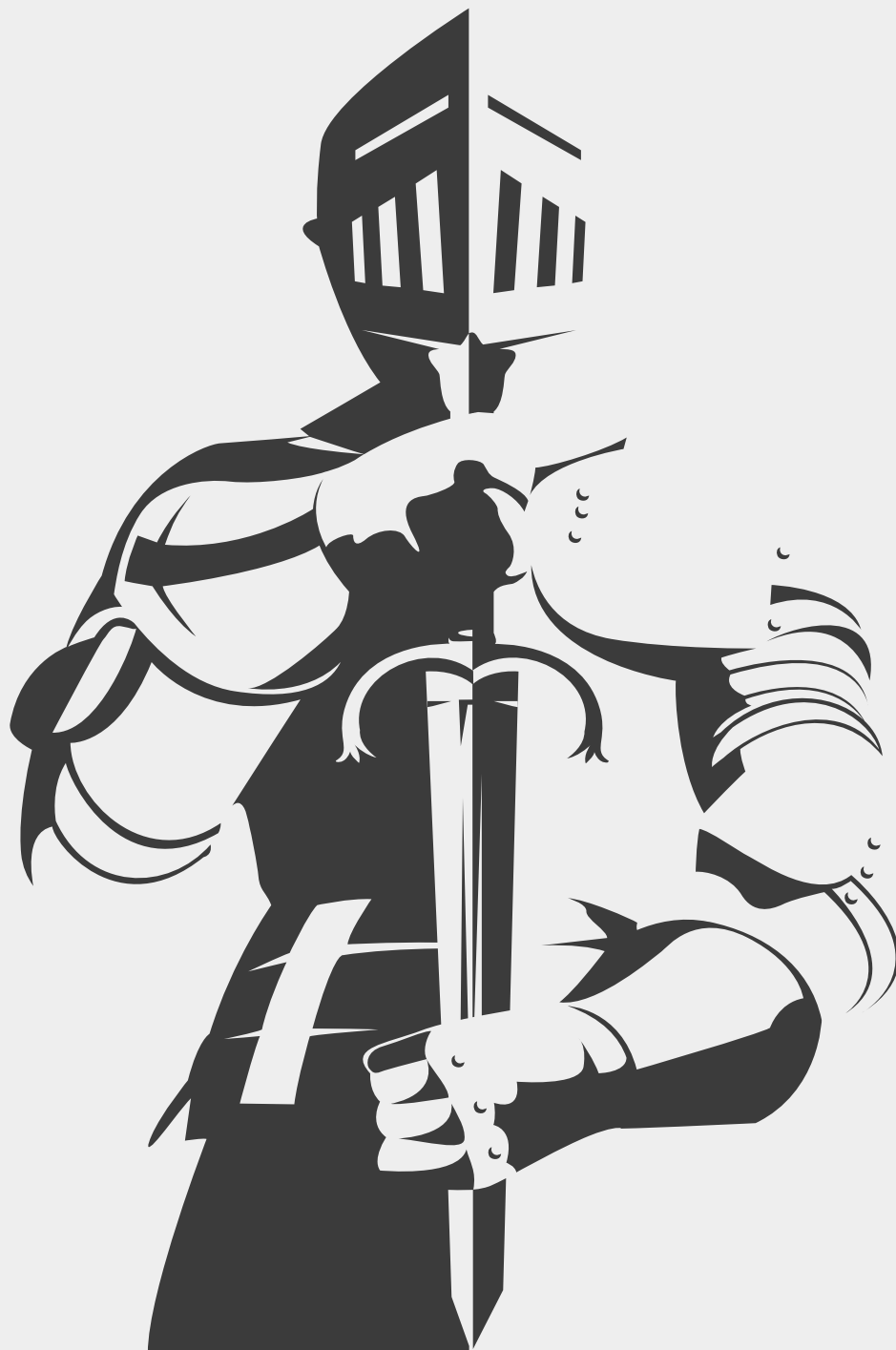
Operation manual

2024 edition

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Getting started

1.1 Downloading OBS

1. Navigate to the website for OBS in the streaming computer's web browser: https://obsproject.com/. The resulting web page should look similar to figure 1.1.1 below.
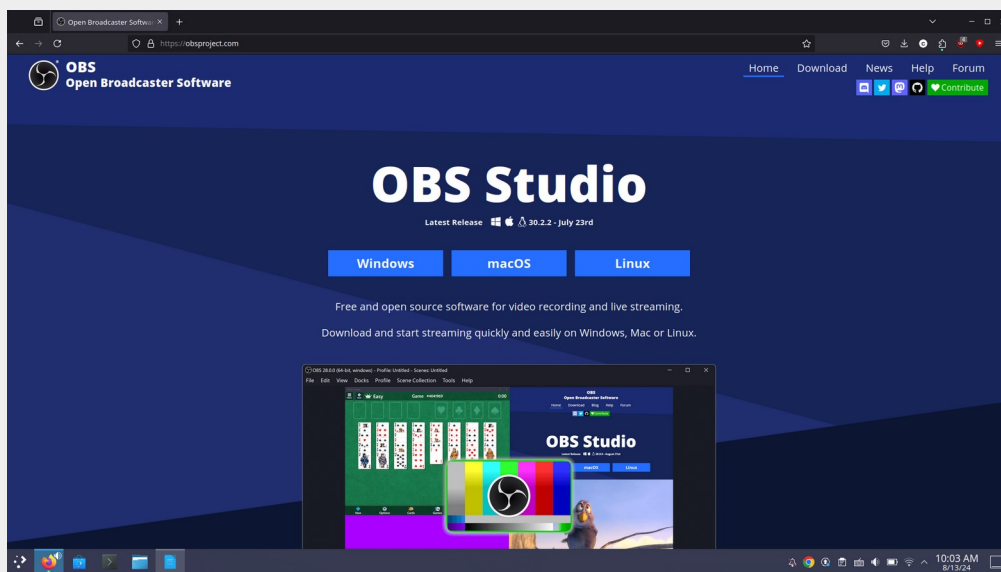
(figure 1.1.1)

2. Click on the button that corresponds to the current OS of the computer. The web page will redirect you to a "Thank you" page and automatically start the download onto the computer. (Figure 1.1.2)
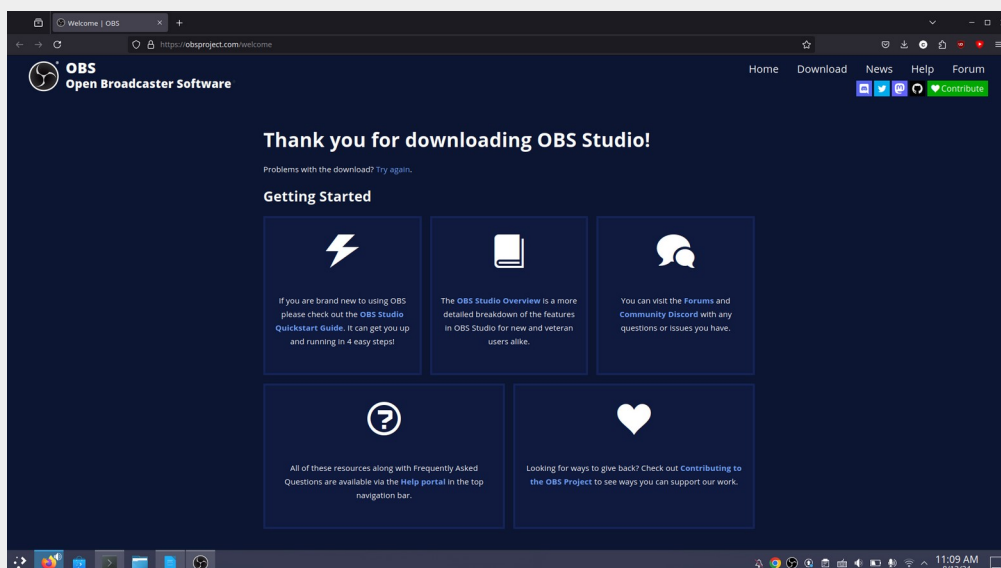
(Figure 1.1.2)

3. Once the file has downloaded, Open file explorer and and navigate to the download location. Once the file is located, double click the icon to open the file and execute the program.

4. The install process will launch and guide the install along from then on. No special options or modifications will need to be made during the install process.

5. Once install completes, you will be greeted by a setup screen. Click through the setup and make any modifications necessary until you reach the Base (Canvas) Resolution settings. For best results, configure the Base (Canvas) Resolution to be 1920x1080. You will also want to connect the streaming platform you plan on using at this point. For information on finding info and connecting your platform to OBS, please consult section 1.4 of this manual.

1.2 Downloading the Scoreboard software

1. In a web browser on the same PC that OBS is installed on, navigate to https://github.com/oskcobb/CFS_Scoreboard/releases

2. At the top of the page should be the most recent version of the software. Click on the release ending on ".exe" if you are on a windows system. The software should start to download directly after clicking on the file.

3. Once the program finishes downloading, navigate to the file in file explorer and double click on the file. It should open two windows automatically, one with the GUI, and another in a command shell, which will have text scrolling near constantly. Make sure not to close either window, as they are both required to make the scoreboard function.

## 1.3 Installing the Scoreboard element into OBS

1. Open both OBS and the scoreboard software, make sure you do not close the black window with text in it. Doing this will prevent the software

from functioning properly and will require closing the remaining windows and reopening the software to fix.

2. Click on add element, then select browser source. When prompted, select "Create new" and give it a name that will help you recognize it as the scoreboard, and then click OK. The configuration settings for the element are as follows:

• URL: 127.0.0.1:5000
• Width: 2000
• Height: 150
(Settings reflected in figure 1.3.1 below)
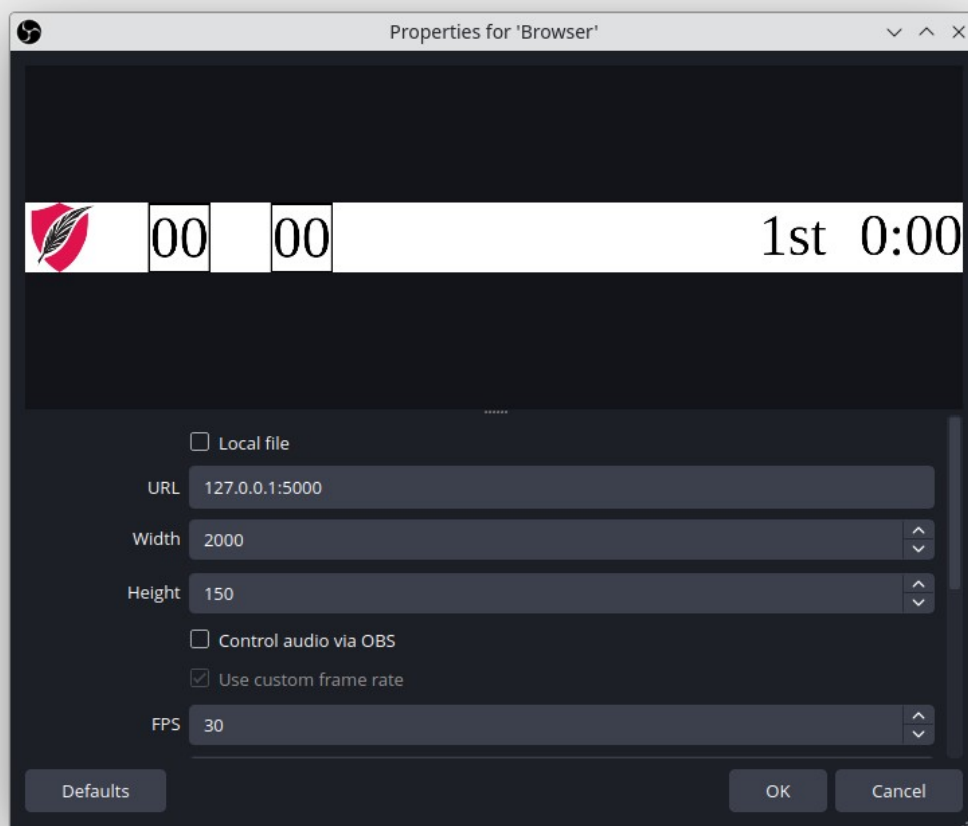
(figure 1.3.1)

3. After clicking OK, the source will be added to the current scene. Scale the source to fit within the window horizontally, then drag to the bottom, which it should automatically snap to.

1.4 Finding stream information

Please refer to platform-specific documentation for the service being used to stream below. If your specified platform is not listed below, please refer to google.

- Facebook: facebook.com/business/help/497386444253763
- YouTube: restream.io/learn/obs-studio/how-to-stream-on-youtube-with-obs/
- Twitch: restream.io/learn/obs-studio/how-to-stream-on-twitch-with-obs/

Navigating the Scoreboard

2.1 Setting Teams

While the CFS Scoreboard is primarily meant to be using during CFS games, it is configured to be able to be used during tournaments as well.

When a team name is input to the textbox, the scoreboard checks a list of labels for CFS teams, and if it matches, "CFS" will be added above the team label (Figure 2.1.1). If it does not match, however, it no modifications will be added, and what is put in to the text box will be exactly what is shown on the scoreboard (figure 2.1.2).
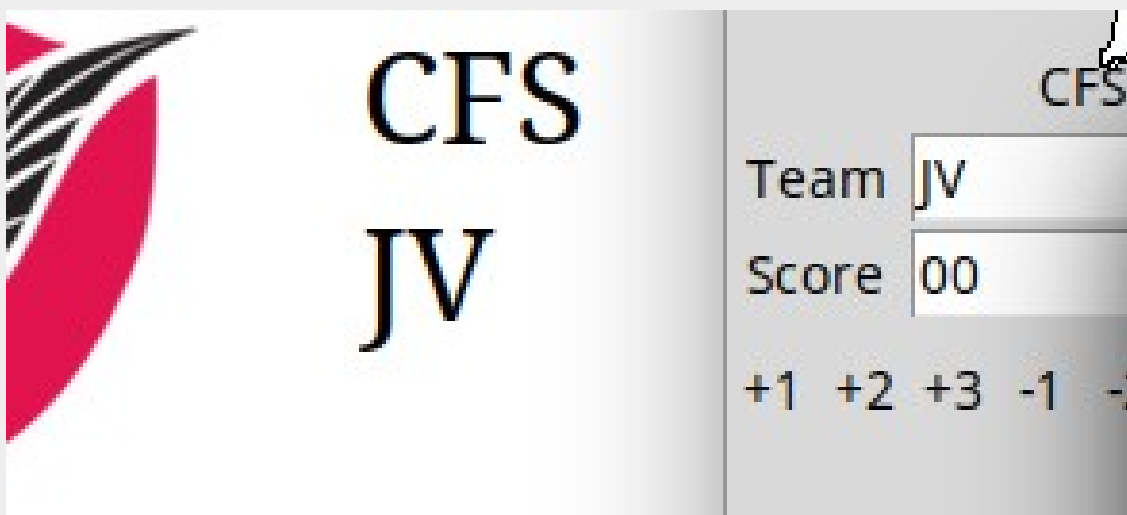
(Figure 2.1.1)
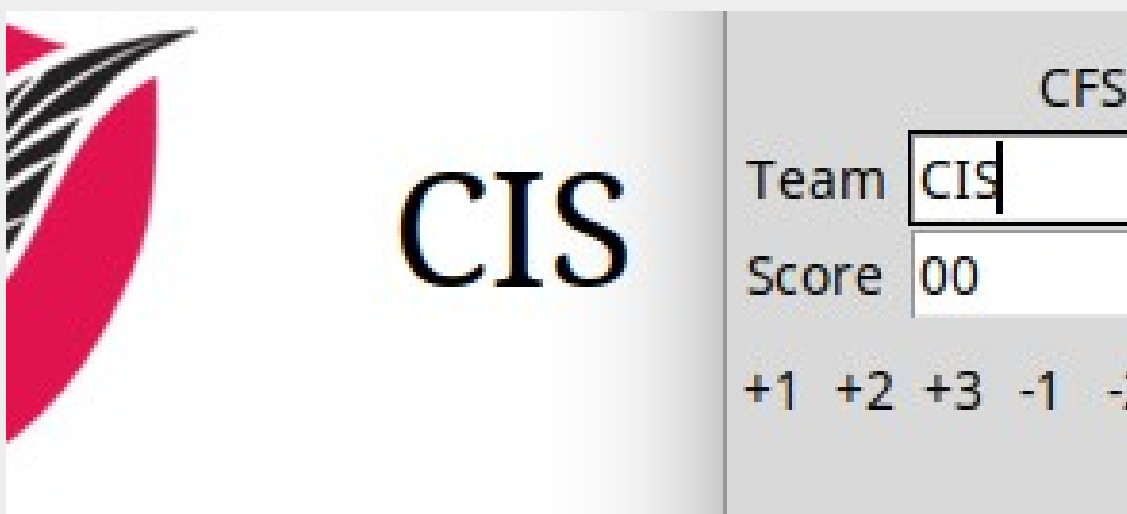
(Figure 2.1.2)

2.2 Managing team score

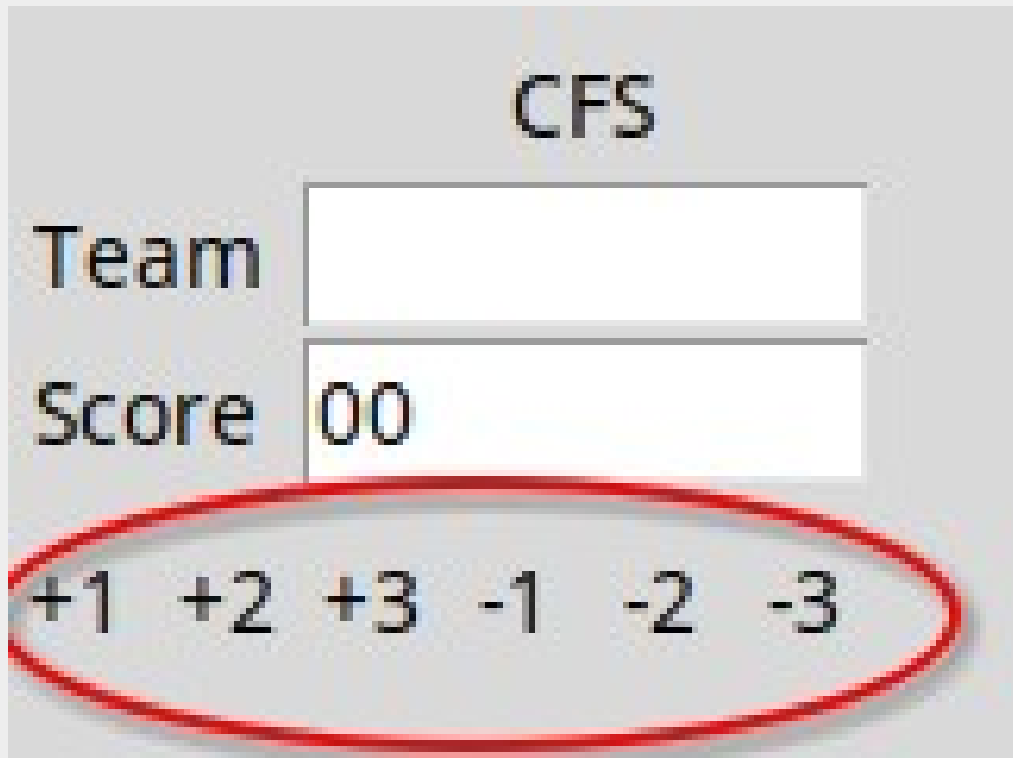There are two different methods that may be used to set or change the score for each team on the score board. The primary method is using the buttons below the "team" and "score" textboxes (figure 2.2.1). +1, +2, and +3 each add their respective number of points to the total score displayed on the scoreboard, while -1, -2, and -3 each subtract points from the team's total score.

(figure 2.2.1)

The secondary method is using the "Score" textbox (figure 2.2.2). This textbox will always contain the team's total score at any given time. To change it manually, simply click into it and type.
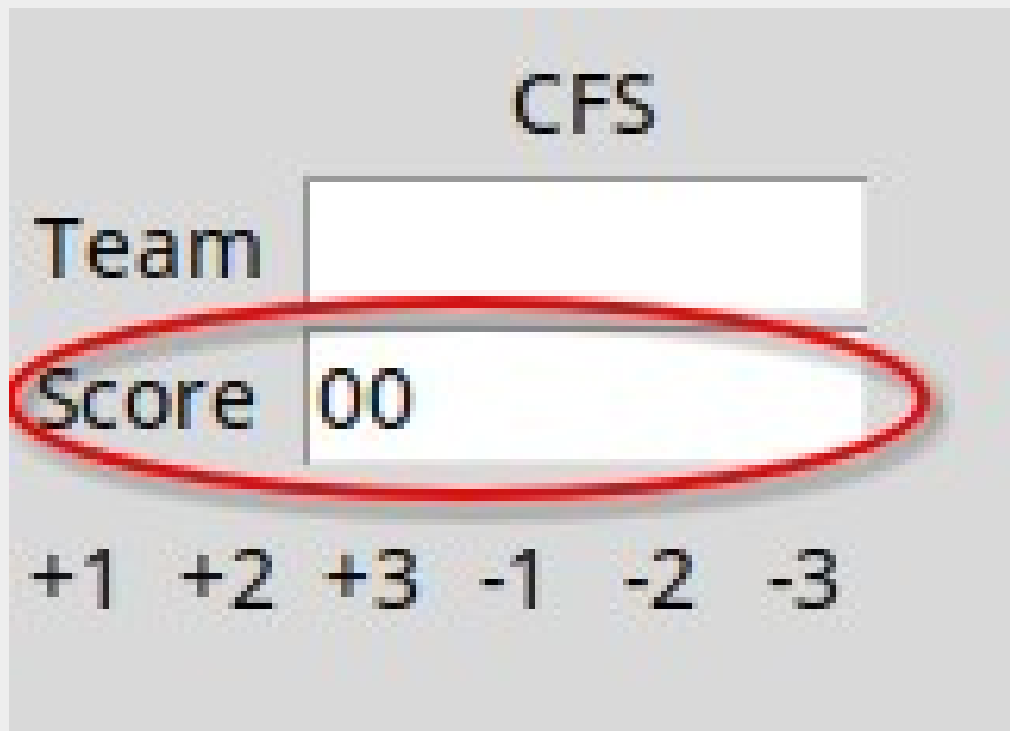
(figure 2.2.2)

2.3 Setting quarter/game

The current quarter or game, depending on the sport, can be selected using the small buttons lining the bottom (figure 2.3.1).
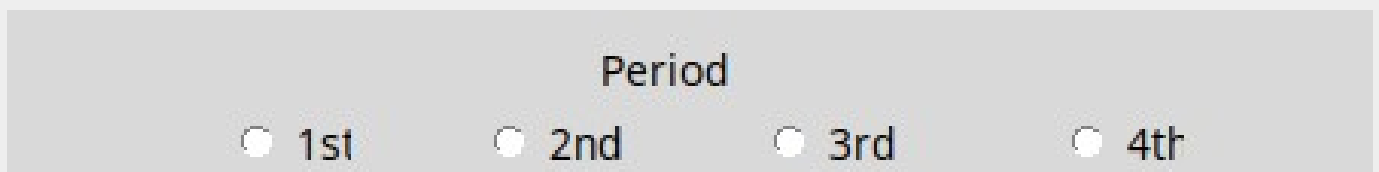

2.4 Using the clock

The clock can be used for many different functions aside from simply counting down. With the four input fields, the clock is able to not only count down, but also count upwards. The clock is also able to count up or down to a time and then pause at the time selected. The top two are to indicate the start time, while the bottom two are to indicate the end time. If you do not intend to end at a specific time, the end time fields may be left blank to count down to zero. If you wish to update the time, please do not

change it in the fields and then immediately press the play symbol. Please first press the pause symbol, change the time, and then press the play symbol, to ensure the time is properly set

2.5 Setting bonus and double bonus

A bonus or double bonus can be set for each team individually with the buttons on the lower sides of the scoreboard. The side the options are on match with the team they are used to indicate.

Off indicates no bonus
Bonus indicates bonus
Dbl bonus indicates double bonus

The bonus will appear directly below the team name on the scoreboard.

Navigating the Scoreboard

3.1 Controlling the software with hotkeys

In addition to the regular on screen controls, the scoreboard also supports additional keyboard controls via hotkeys for easier control. Below is the full list of hotkeys available:

```
Alt + N   ->  Start clock
Alt + M   ->  Pause clock
Ctrl + 1  ->  Plus one to home score
Ctrl + 2  ->  Plus two to home score
Ctrl + 3  ->  Plus three to home score
Alt + 1   ->  Minus one to home score
Alt + 2   ->  Minus two to home score
Alt + 3   ->  Minus three to home score
Ctrl + 4  ->  Plus one to away score
Ctrl + 5  ->  Plus two to away score
Ctrl + 6  ->  Plus three to away score
Alt + 4   ->  Minus one to away score
Alt + 5   ->  Minus two to away score
Alt + 6   ->  Minus three to away score
Alt + 8   ->  Clear time
Alt + 9   ->  Clear score
Alt + 0   ->  Clear all
```

These hotkeys can aid in accurately controlling the scoreboard in a more efficient manner than a mouse

3.2 Changing the theme and emergency theme editing

With the addition of scoreboard version 3.0, new theme editing and switching has become a feature. To change the theme, simply click on Themes → Choose new theme, and then select the proper theme from the list. In the case of an emergency, a temporary theme may be edited on the fly if something happens to the current theme, or if an unaccounted for

scenario occurs. To access this, just click through Themes → Emergency theme editor, then from there you are free to make any changes necessary. After you finish editing, press save to update the scoreboard with the temp code.

3.3 Finding OBS element setup info

In order to source information pertaining to the scoreboard element in OBS, please check either Help → OBS Setup in the Scoreboard software, or section 1.3 of this manual.

3.4 Viewing software version information and updating the software

The scoreboard software should automatically alert the user on startup when a new software update is available, however, if this fails you still have two options to update the software. Option one is manually downloading the software from github.com/oskcobb/CFS_Scoreboard/releases, and the other option is to go to Help → About → Check for updates in the scoreboard software. Current version info is located in in Help → About.

3.5 Submitting a bug report

please submit any bug reports to cobboskar9@gmail.com, make an issue on GitHub: github.com/oskcobb/CFS_Scoreboard/issues, or go to Help → About → Submit a bug.

CFS-Specific setup usage

4.1 Configuring and using instant replay in OBS

To use instant replay in OBS you must first ensure that the replay buffer is properly running. If the replay buffer button is blue, it is running currently. To save an clip for instant replay, press the button next to the instant replay button that looks similar to a download symbol. This will save the last 15 seconds of the stream. From there you can click to the instant replay scene in OBS once the narrating host is ready and the replay will automatically start.

4.2 Making sure the speakers stay active

The current speakers that exist as the main sound system have a tendency to go into sleep mode after a certain amount of time. At the time of writing this manual, the exact amount of time is unknown. Each time before playing music, you must ensure the speakers are powered on, via the lights on bottom or the small display facing the buttons and that the volume is set to an appropriate level.