**C229 Single Camera Production – Week 15**

**Agenda:**

* Wrap up semester &review for Final Exam
* Short in-class Canvas attendance exercise
* Fill out the OCQ evaluations this week**. If I get 95% participation, I’ll give everyone an extra credit point!**

### **The FINAL EXAM is Wednesday, May 1 from 3-5 pm.** (Administered via Canvas. It should literally take no more than 30 minutes. You should have plenty of time to do it- **Just Don’t forget to take the final!**

Please send me any good Final Projects!

**Some last advice:**

* Pay attention and be communicative. Never drop the ball. Answer emails quickly and if you don’t know the answer to something, be honest and say you don’t know.
* For people wanting to get into the film/tv business as a creative- start building your portfolio.
* A splash/demo reel is a good thing to have and doesn’t need to be longer than 3 minutes. Always have descriptions of what you did (Director, Sound Design, Editor, etc.) and never include work that you don’t legally own. (It’s good to avoid clip art, stock footage, etc.)
* It’s good to have your own website. You can build it yourself with Wordpress, WIX, SquareSpace, Adobe, etc. or have someone build it for you.
* Ideally, it’s good to have yourname.com.
* It’s also good to not just have pretty pictures and videos on a website- but also articles, Podcasts, etc.
* Many professionals include short articles about the projects they worked on which provide useful context.
* It’s possible to build skills on your own, but much quicker when you work with people who know more than you do.

**C229 Review**

**Review readings & watchlist that were assigned over the semester:**

* [Lens Basics (Sony)](https://www.sony.com/ug/electronics/focal-length-angle-of-view-perspective)
* [Understanding Exposure (B&H Explora)](https://www.bhphotovideo.com/explora/photography/tips-and-solutions/understanding-exposure-part-1-exposure-triangle)
* [Camera Shot Types (B&H Explora)](https://www.bhphotovideo.com/explora/video/tips-and-solutions/filmmaking-101-camera-shot-types)

**Review Topics:**

**Single camera verses multi-camera** production (advantages/disadvantages)

**Single system vs Dual system** production

* Workflow differences (audio, slating, editing, etc.)

**Frame Rates/Picture Size:** Most TV stations are broadcasting in HD (High Definition), but there are other picture sizes in use. Some include:

* Standard definition (E.g., 720 x 480)
* High definition (E.g., 1920 x 1080)
* 4K and UHD (Ultra High Definition E.g., 3840 x 2160)

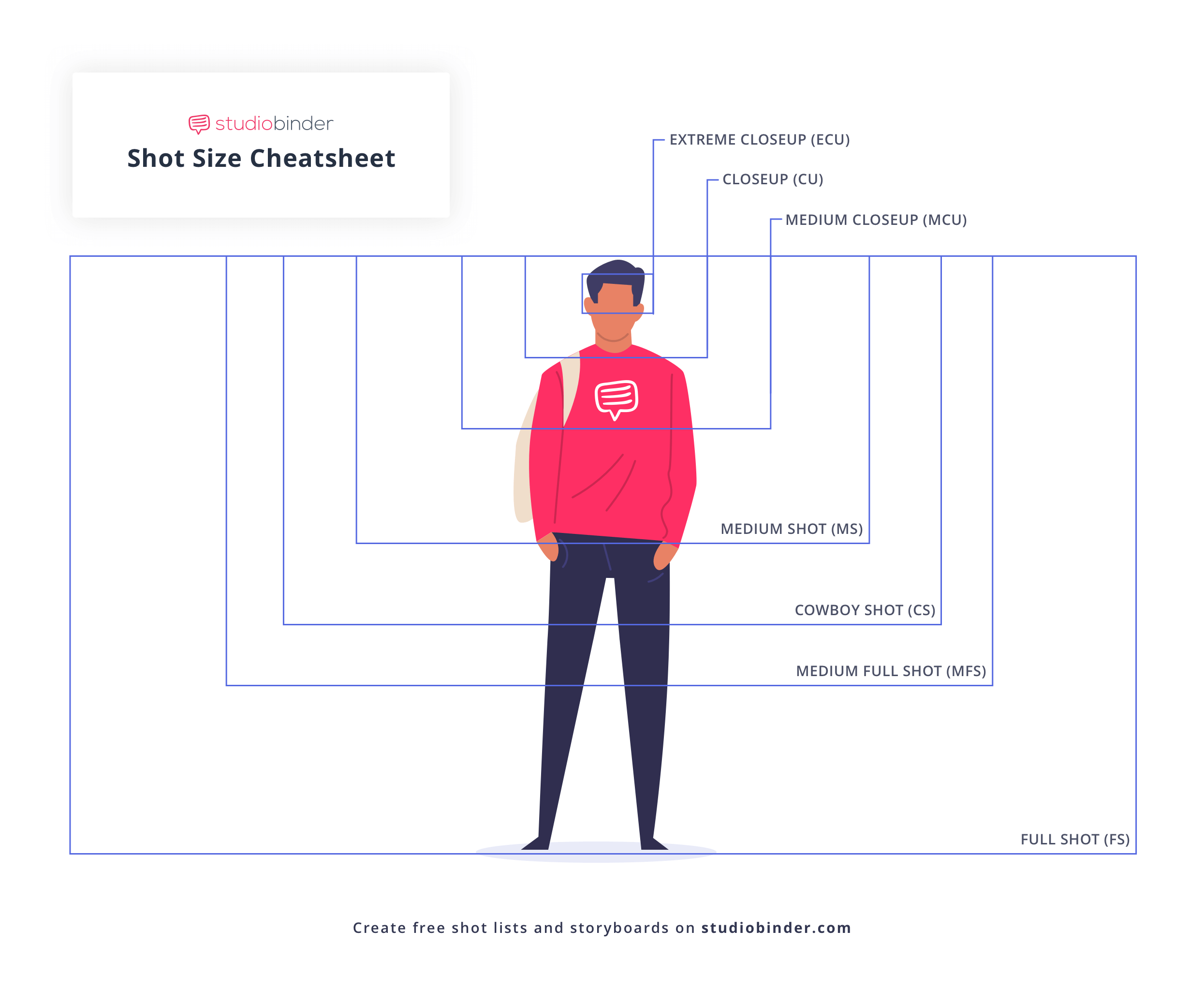
**Frame Rate:** There are two important frame rates to know:

* 24 fps (Actually 23.98 fps)
* 30 fps (Actually 29.97 fps)

**Interlaced vs Progressive** (60i vs 24p or 30p)

Aperture / f-stop/ iris / Depth of Field

**What impacts Depth of Field** (Aperture!)



A picture containing timeline

Description automatically generated

**Camera Gain/ISO**

**Setting Proper Exposure** (Tools include Zebra stripes, Waveform Monitor, etc.)

**Exposure Triangle** (Aperture, ISO/Gain, & Shutter speed)

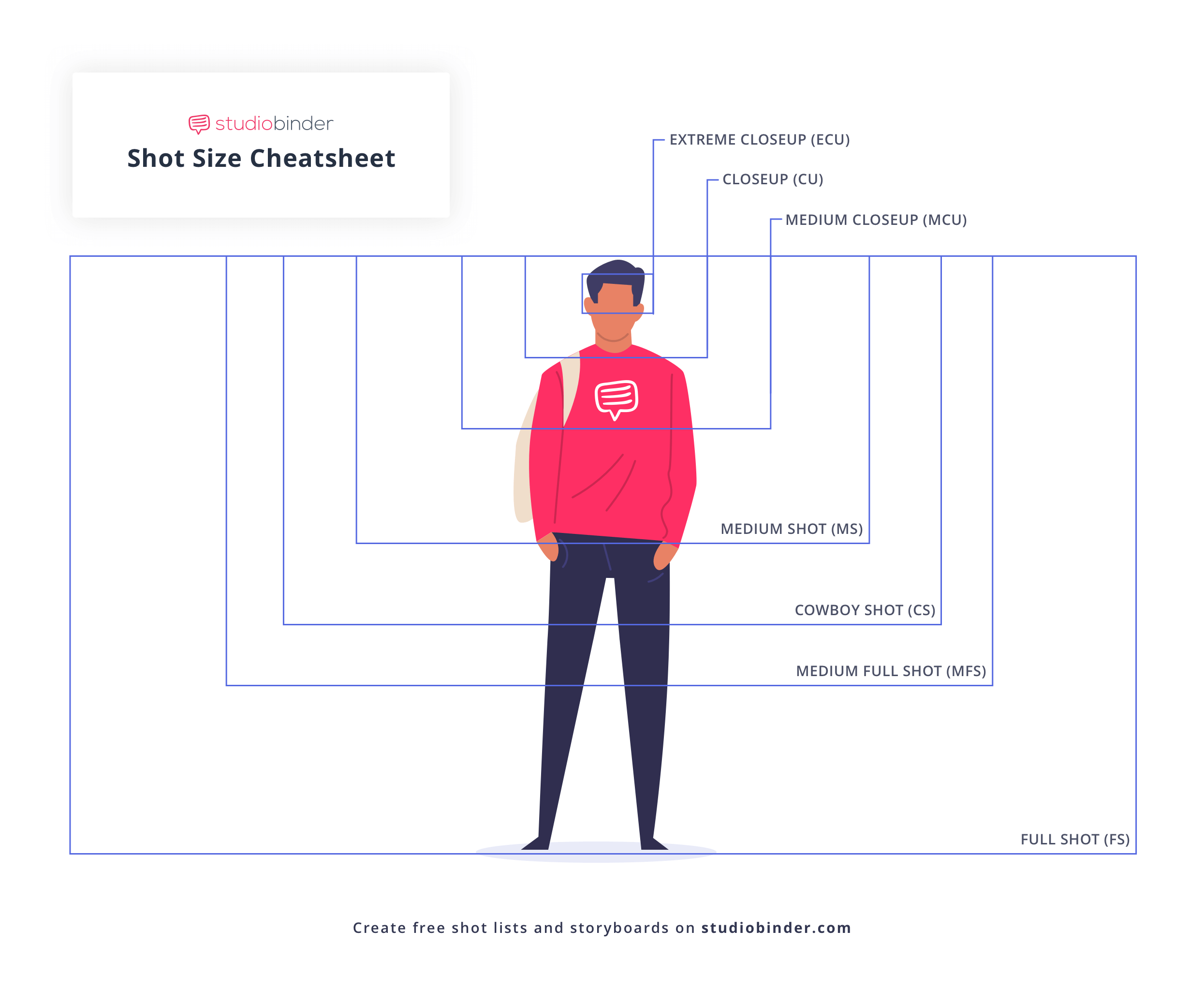
**How to Set Focus** (Tools include: Peaking, Magnify, etc.)

**How to Set / When to White Balance**

**Focal length & Angle of View** (Telephoto vs Wide Angle)

**Prime lenses vs Zoom lens**

**Shot Types:**



**Camera settings checklist:**

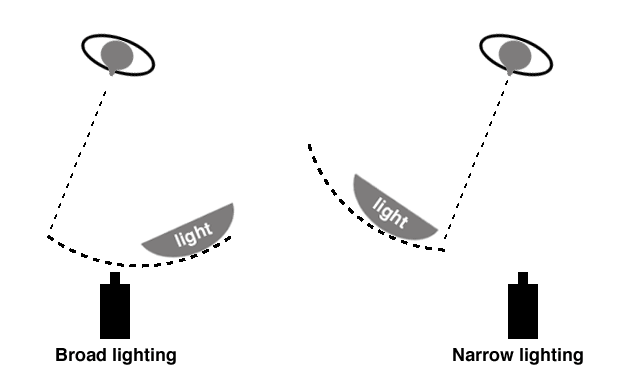
* Initialize SD card before you start filming
* Set your frame rate (either 23.98 for film or 29.97 for TV)
* Set your shutter speed (always double your frame rate 1/48 for film or 1/60 for TV)
* Set your CODEC (mp4, XF-AFC, etc.)
* Set your resolution and bit rate (1920x1080 35mbps or 17mbps)
* White Balance (check/set for proper color temp)
* Check ND filters & Gain/ISO
* Turn on any focus and exposure assists you want to use such as Peaking or Zebra Stripes

**Premiere Post Shoot Workflow** – After finishing a shoot:

* Copy entire contents of SD/CF card (root/top level) to an appropriately named folder on your dedicated media drive (E.g., “Week 2 Field shoot August 22”).
* Eject the SD/CF card.
* Launch Premiere and save the project to your media drive (E.g., “C229 Project 1”).
  + TIP: It’s good to make sure your Scratch Disks are set to “Same as Project”. You can find this under File/Project Settings.
* Use the Media Browser to link to the footage.
* Import media and edit
  + TIP: Backup your entire media drive to multiple locations (E.g., another SSD).

**Lighting**

* What is the Lighting Triangle made up of?
* What is the additional, 4th light, we typically add?
* Soft verses Hard lighting
* What are the standard color temperatures for inside and outside?
* Broad verses Narrow lighting





Know different types of lights (Spotlights, softboxes, LED, etc.)

**Grips & Gaffers** (What’s the difference? Which one works with electricity?)

* How to use C-Stands
* How to carry C-stands
* **What to call out when you’re moving gear**

Editing – Premiere Basics – NOT going to be on the final!

**Directing/Producing**

* [Continuity Editing in Film (Studio Binder)](https://www.studiobinder.com/blog/what-is-continuity-editing-in-film/)
  + [The 180-degree Rule](https://youtu.be/iW0bKUfvH2c)
  + [What’s the 30-degree rule?](https://youtu.be/1K8EUc98VoQ)
  + [Match Cuts](https://youtu.be/ptXlYulVAsM)
  + [Eye Trace](https://youtu.be/xUK64UkTmW0)

**Sound**

* Range of Human Hearing (20 Hz to 20 kHz)
* Phantom Power
* Types of microphones
* Microphone Polar patterns
* Microphone electrical characteristics (Dynamic, Condenser, etc.)