

# MOTION PROJECT!

## Determine The Proper Shutter Speed

Every situation is unique. One speed doesn't suit all circumstances. To identify the right shutter speed, you'll need to ask yourself a few questions:

1. How fast is your subject moving?
2. How much distance exists between the camera and the subject?
3. How much motion do you want your photograph to convey to the viewer?

The faster the shutter speed, the sharper the focus on your subject.

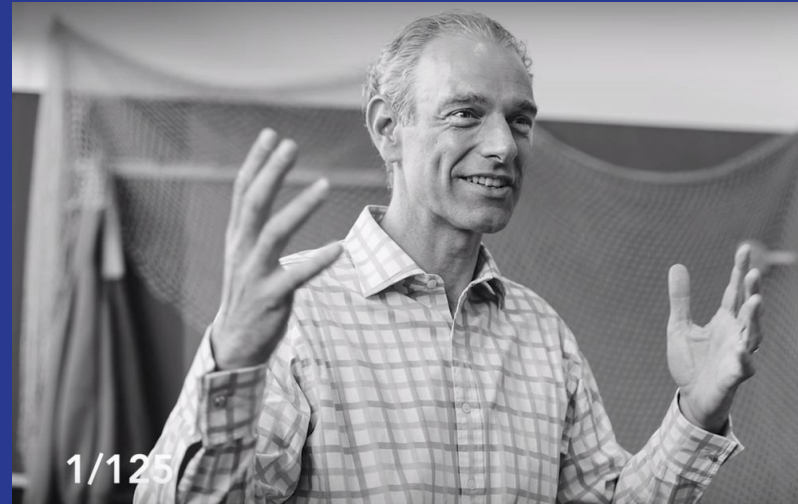
On the other hand, a slower shutter speed will blur a moving object.

# WHY PHOTOGRAPH MOTION?

- To convey that an object is moving
- Movement can communicate mood. ex) Trees rustling in the wind suggest serenity OR the shoes of people on a busy city block imply harried activity.
- To eliminate elements in a scene that may serve as distractions to the viewer.

# What is shutter speed????

Resource 4:28 : <https://www.youtube.com/watch?v=NccAtXGQx6w>

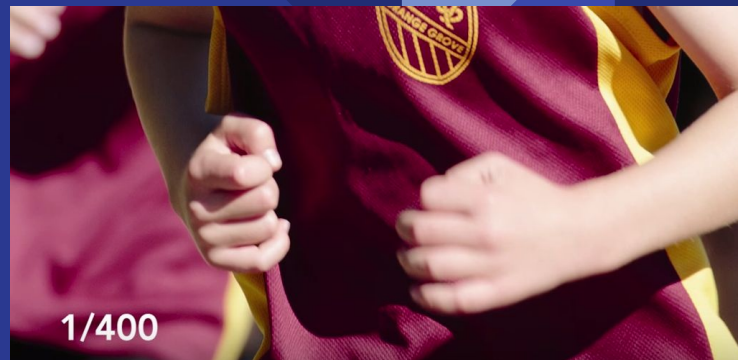








1/400



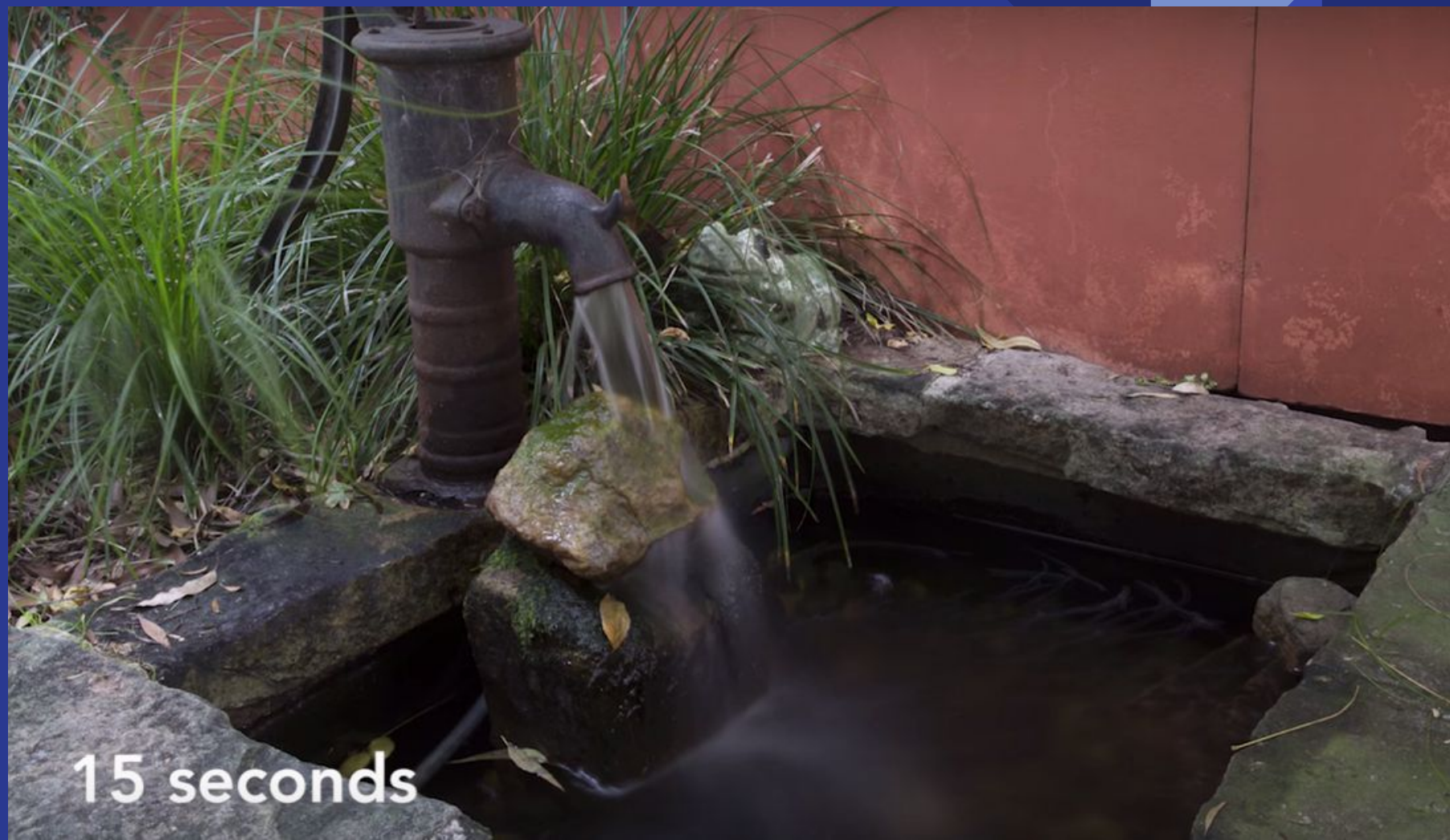
1/400



1/400



1/500



15 seconds



A person wearing a bright yellow-green high-visibility vest and a black t-shirt stands with their back to the camera on a city street at night. The street is filled with light trails from passing vehicles, with prominent red and white streaks in the foreground. Tall buildings line both sides of the street, some with lit windows and others with signs. A green traffic light is visible on the right side of the street. The overall scene is a long-exposure photograph of a busy urban environment.

4 seconds

# STOP ACTION PHOTOGRAPHY!

GOAL: TO FREEZE MOTION

CAMERA SETTING TIPS: RECOMMENDED SHUTTER SPEED 1/400, you will have to experiment!

ACTIVITY: **Let's photograph each other jumping in the air!**

HOW TO VIDEO 11:23 wine glass example:

<https://www.youtube.com/watch?v=WwcFbRUfHkk>

Start at 4 min : <https://www.youtube.com/watch?v=0QNdCruF8g0>





# EXAMPLES:



The higher the shutter speed  
the MORE light you will need!



# What was that called?

What do I need to remember!!!???????

The higher the shutter speed the MORE light you will need!

**USE A TRIPOD!**

Activity: ACTION PHOTOGRAPHY

**Step 1: Plan your shot**

**Step 2: Camera settings.**

**HIGH shutter**

**Double the number for the ISO**

**Set your depth of field**

**Subject: Person Jumping in the air!**

# BLUR MOTION PHOTOGRAPHY!

GOAL: TO CAPTURE MOTION

CAMERA SETTING TIPS:

ACTIVITY:

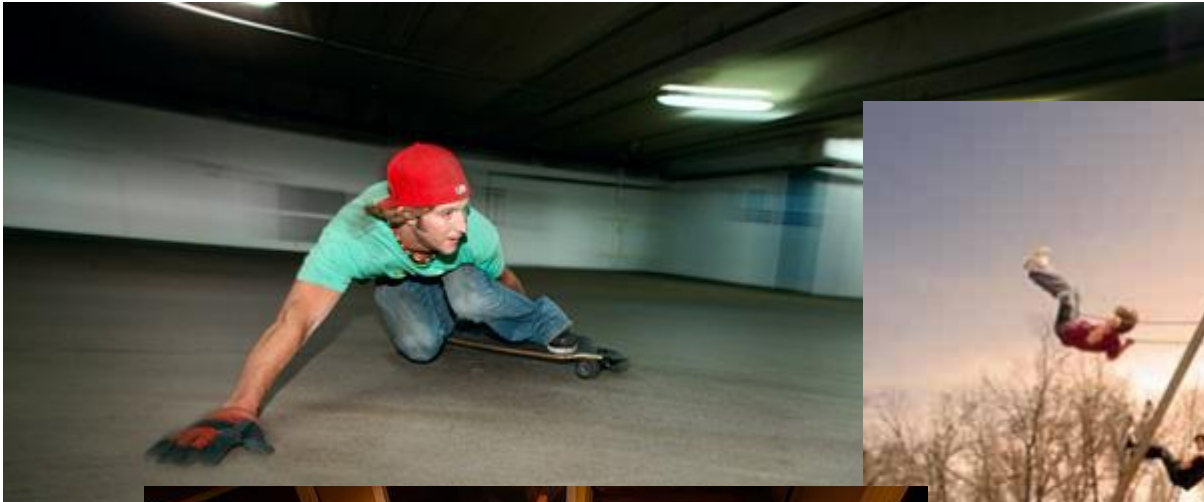
HOW TO VIDEO:





## EXAMPLES:





# What was that called?

What do I need to remember!!!??????

Middle shutter speed,  
you will have to  
experiment

**USE A TRIPOD!**

Activity: BLUR MOTION PHOTOGRAPHY

**Step 1: Plan your shot**

**Step 2: Camera settings.**

**Mid level shutter**

**Double the number for the  
ISO**

**Set your depth of field**

**Subject: Person doing  
jumping jacks or a  
cartwheel**

# PANNING: Blurred Background With Subject In Focus

GOAL: TO CAPTURE MOTION AROUND THE OBJECT

Details: Panning effectively can be difficult. You can practice and perfect your technique by photographing athletes who move quickly (for example, basketball players). Try to capture their facial expressions while blurring everything in the background. It will take some time to get it right, but once you do, the technique can be a valuable addition to your repertoire.

CAMERA SETTING TIPS: You need to use a slow shutter speed. **However, instead of using a tripod, you'll be panning,** in other words you will be moving your camera along the directional path of your subject.

ACTIVITY: Photograph a Runner!

HOW TO VIDEO:





# EXAMPLES:



# EXAMPLES:



# What was that called?

What do I need to remember!!!??????

HIGH shutter speed,  
you will have to  
experiment  
YOU'LL NEED TO  
MOVE WITH YOUR  
SUBJECT!

HOW TO:

<https://www.youtube.com/watch?v=GZdLudjkJSY>

Activity: PANNING PHOTOGRAPHY

**Step 1: Plan your shot**

**Step 2: Camera settings.  
HIGH level shutter**

**Double the number for the  
ISO**

**Set your depth of field**

**Subject: Person doing  
jumping jacks or a  
cartwheel**

# BONUS PROJECT: EXTENDED EXPOSURE



HOW TO: <https://www.youtube.com/watch?v=g6DlaFnnCil>







Use a  
flashlight or  
glow stick in a  
dark room!!



# WARNINGS:

## Potential Issue: Excess Light

First, check the aperture on your camera. The larger it is, the more likely excess light will enter. Try adjusting the settings to reduce its size.

Second, review the setting of your ISO. When it is set high, the image sensor in your camera may be overly-sensitive to light. This can create unwanted noise in your image.

Need ideas?

<https://digital-photography-school.com/13-places-to-practice-taking-beautiful-motion-blur-images/>

## YOUR PROJECT:

Over the next three days we will practice each type of motion photography.

After each activity you will create a contact sheet, upload it to your weebly projects page with a summary of the type of motion and how to photograph it.

For your final project you can choose one of your photos from the activities OR take new photos in order to get a better shot for your final.

Edit it, Share it with me to print and upload it to your Gallery.