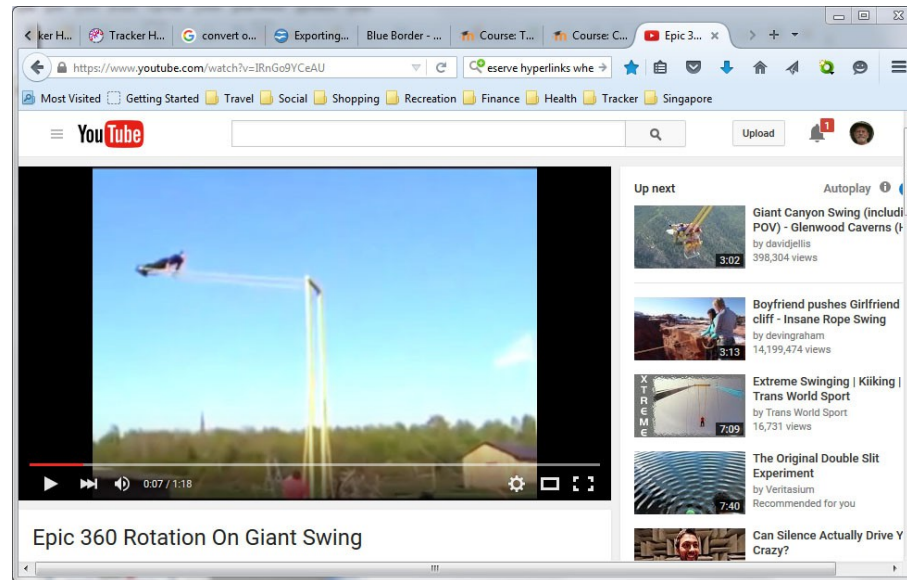




Preparing Videos for Analysis

Download videos from web sites



Useful resources:

YouTube

Clip Converter online video downloader

Freemake desktop video downloader



Preparing Videos for Analysis

Recommended file formats

- *FLV, WMV, MP4, MOV*
- *GIF (may be animated), JPG, PNG*
- *Use a video converter to convert videos to one of these formats*
- *Trim/cut long videos for smaller files, faster loading*

Useful resources:

[Freemake desktop video converter](#)



Preparing Videos for Analysis

Record your own video: cameras

- *Look for high frame rate and time lapse capabilities, manual shutter*

Useful resources:

Suitable cameras: [Vernier](#), [Dot Physics](#)

Avoid rolling shutters: [LivePhoto](#)



Preparing Videos for Analysis

Record your own video: best practices

- *bright, uniform lighting*
- *uniform background, contrasting object*
- *fast shutter speed*
- *motion perpendicular to view*
- *narrow field of view*
- *steady camera (tripod if possible)*
- *calibration object at same distance*

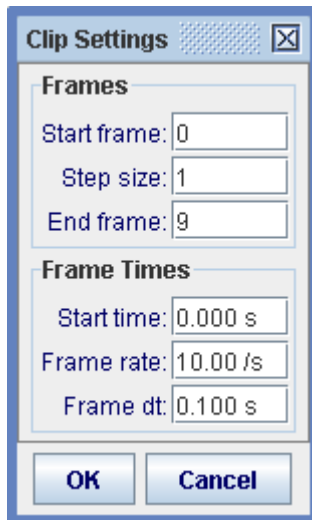
Useful resources:

[Vernier discussion](#)



Preparing Videos for Analysis

Video clip settings



- *Inspector or video player controls*
- *Start, end frames*
- *Step size*
- *Frame rate, frame dt*
- *Start time*

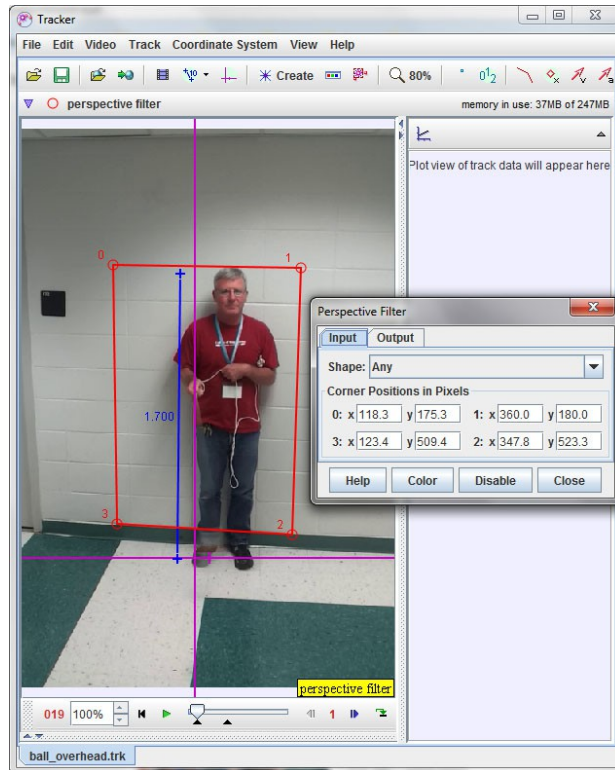
Useful resources:

[Tracker Help: videos](#)



Preparing Videos for Analysis

Video filters



- *Brightness, negative, grayscale*
- *Deinterlace*
- *Rotate, resize*
- *Distortion: perspective, fisheye*
- *Ghost filters: motion diagrams*
- *Baseline, sum*

Useful resources:
[Tracker Help: video filters](#)

DL browser: [ROLL583.mov](#), [BallToss.mov](#), [ballOnString.wmv](#)