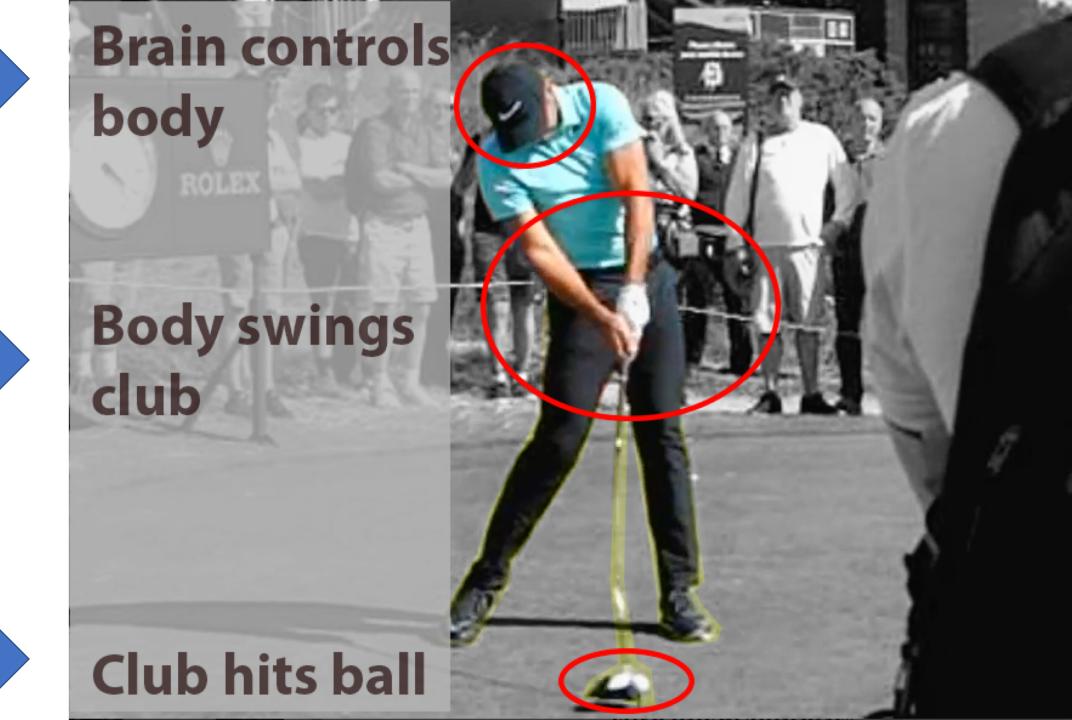
Topics

• 3D – Axial Velocity and Arc Width

John Dunigan Putting Book – HOLE IT!

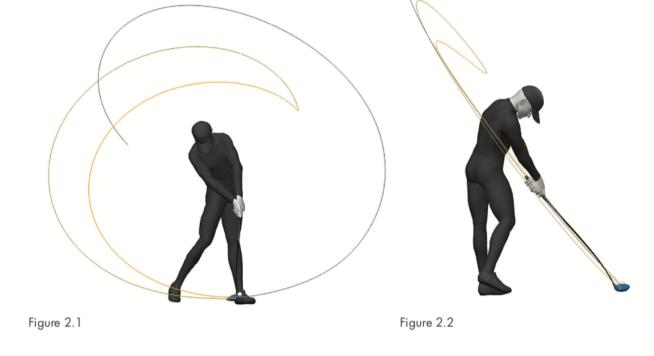
Anatomy of "feel" – coaching awareness

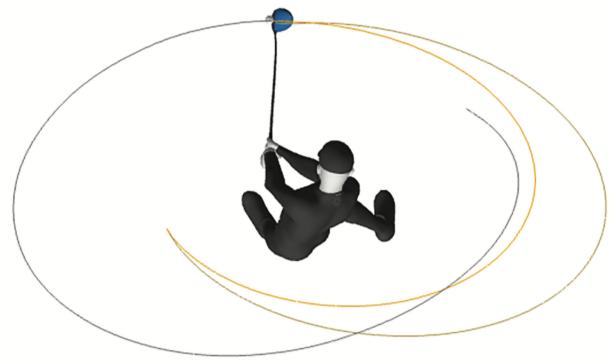
Coaches Questions/Swing Discussions

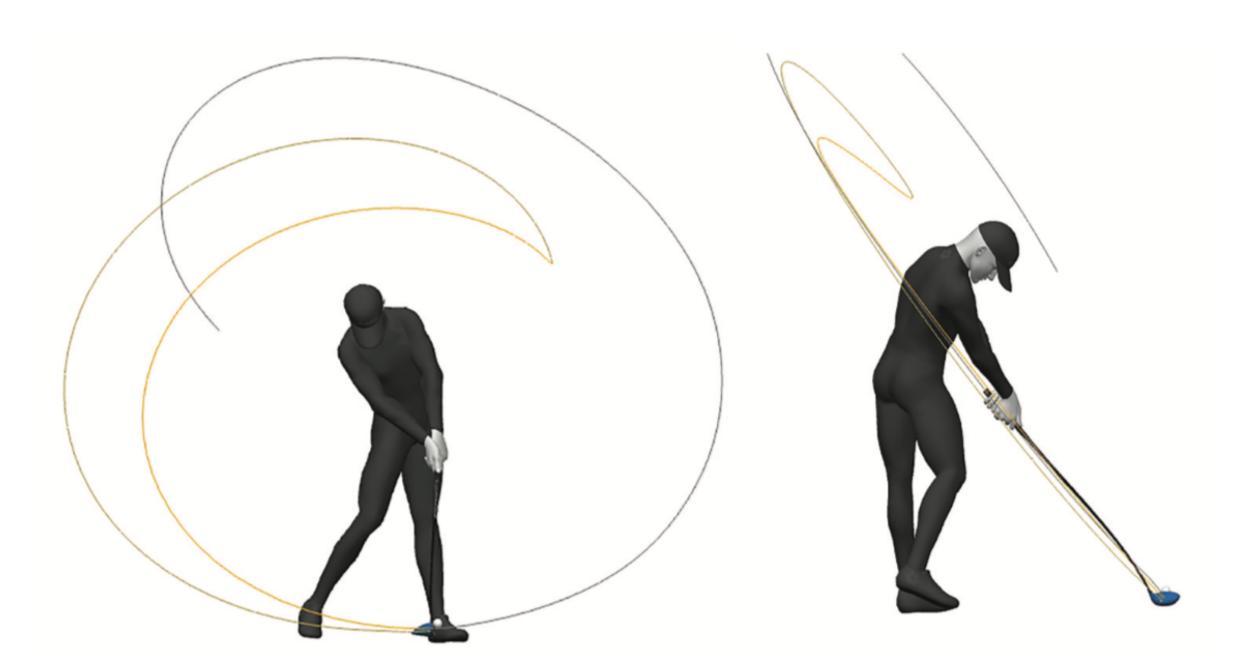


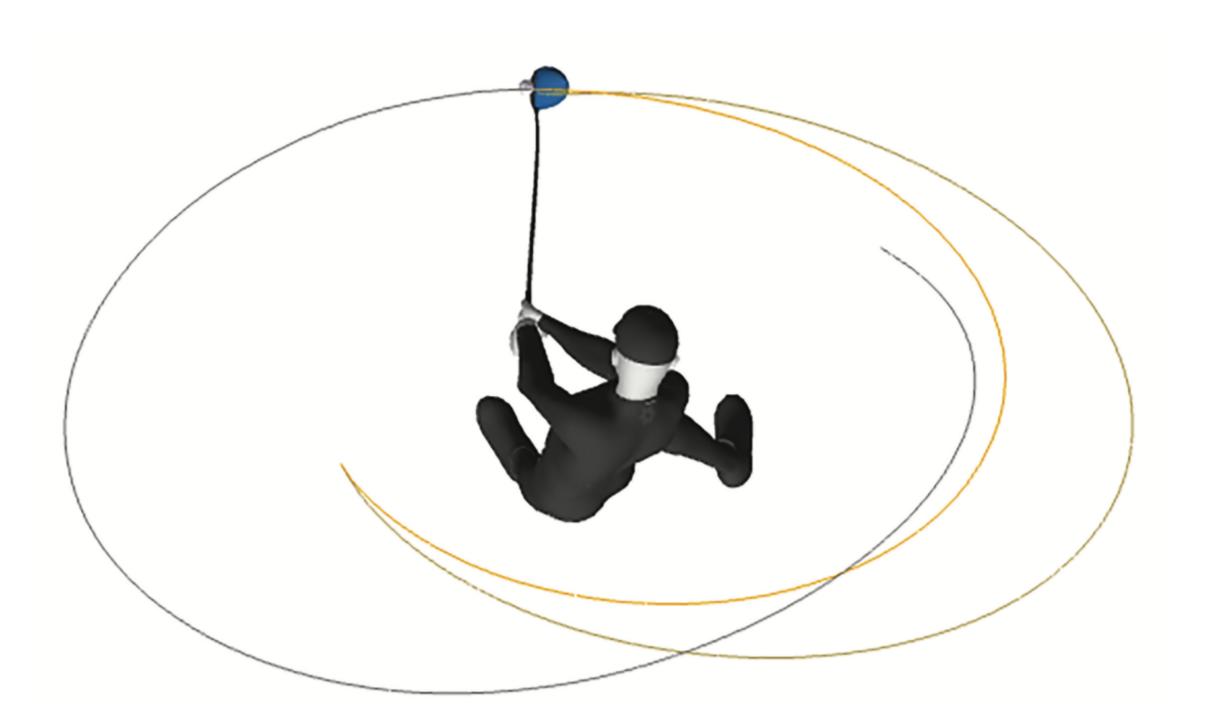
Start with Big Picture

Break down to details as needed

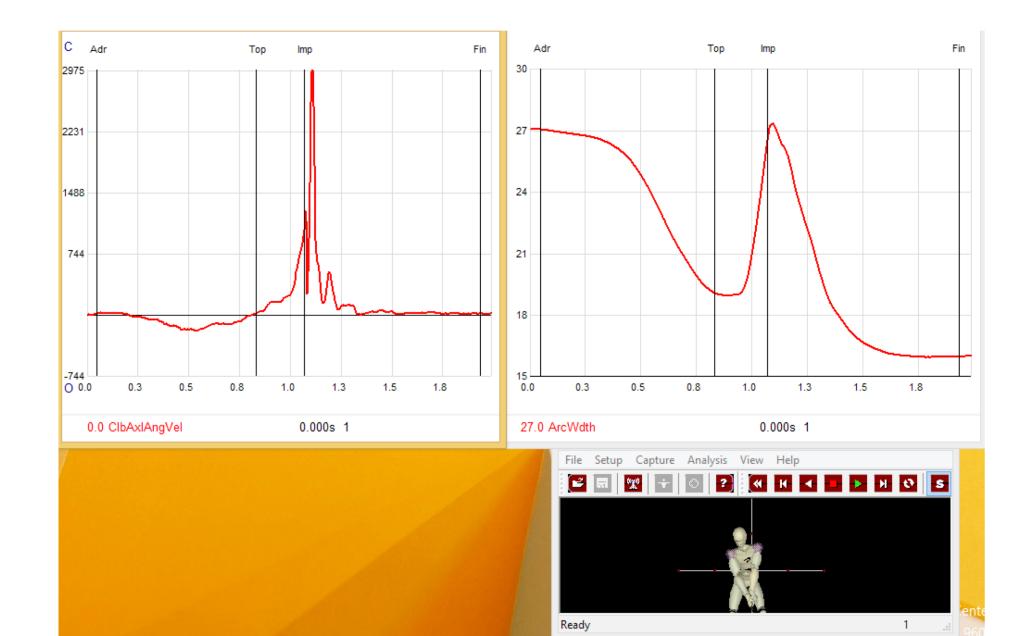


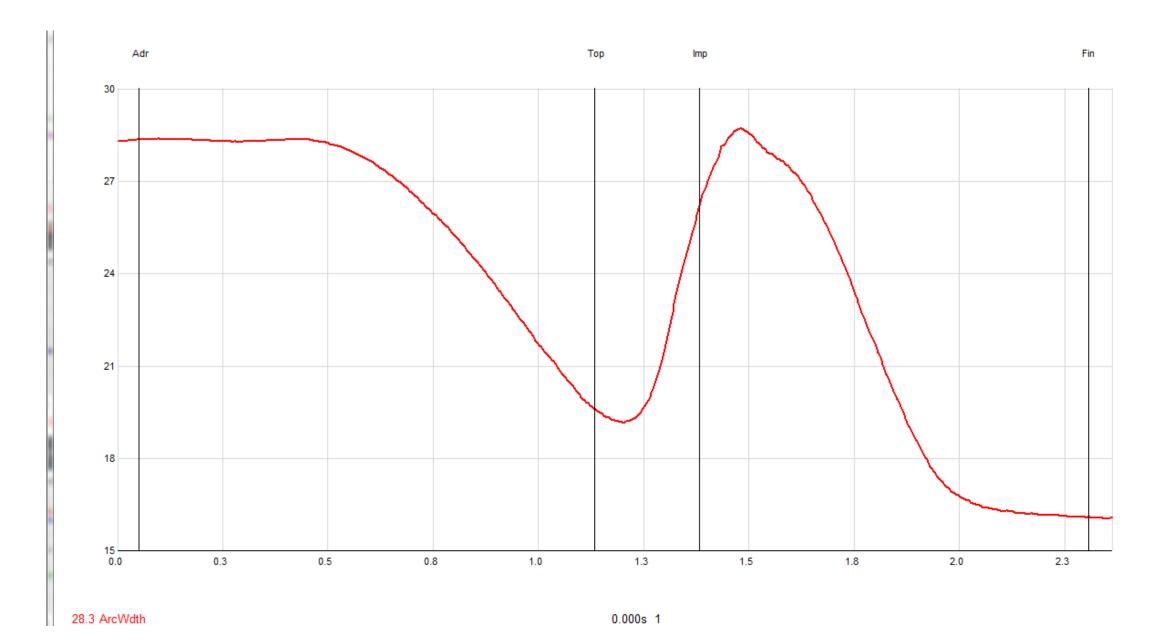


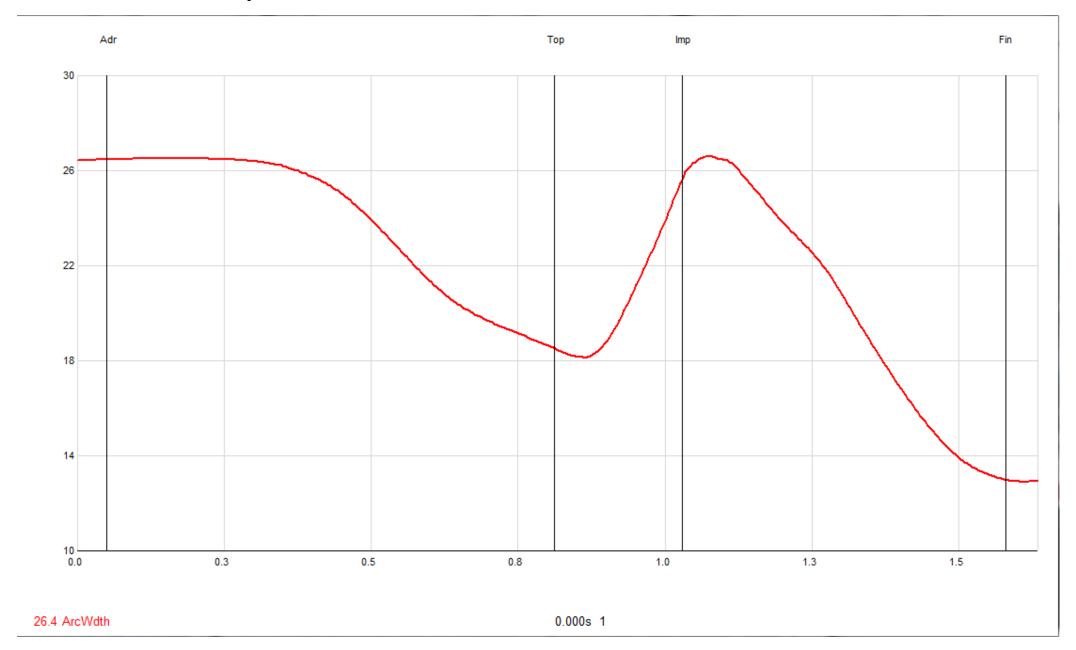


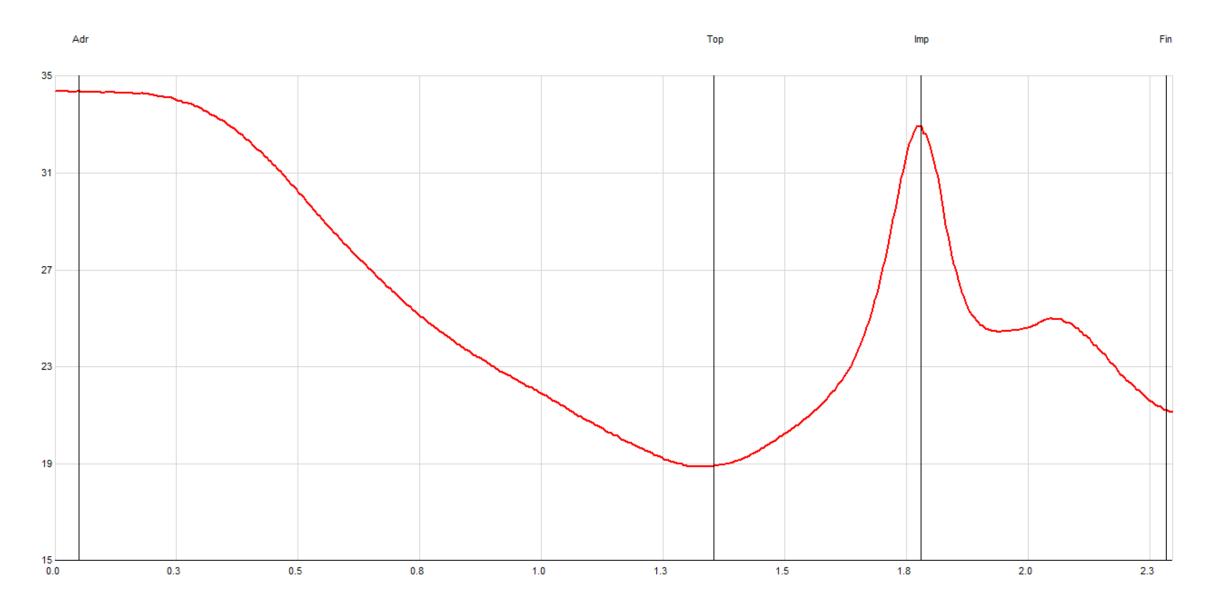


Big 3 Graphs – Kinematic Sequence/Arcwidth/Axial Velocity

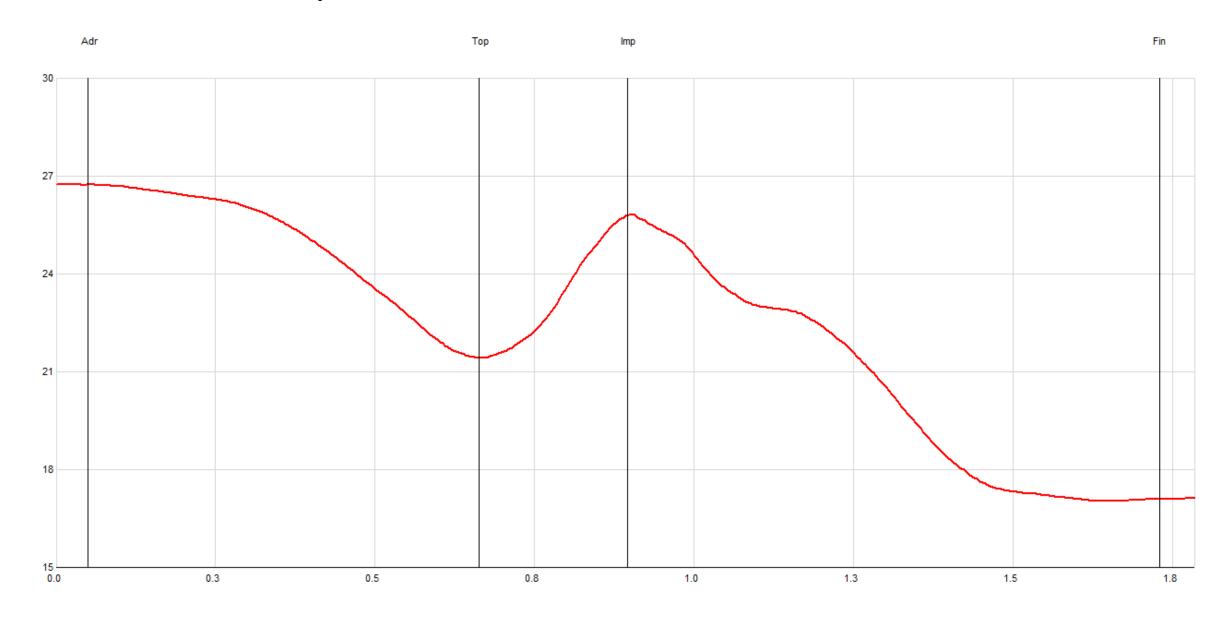




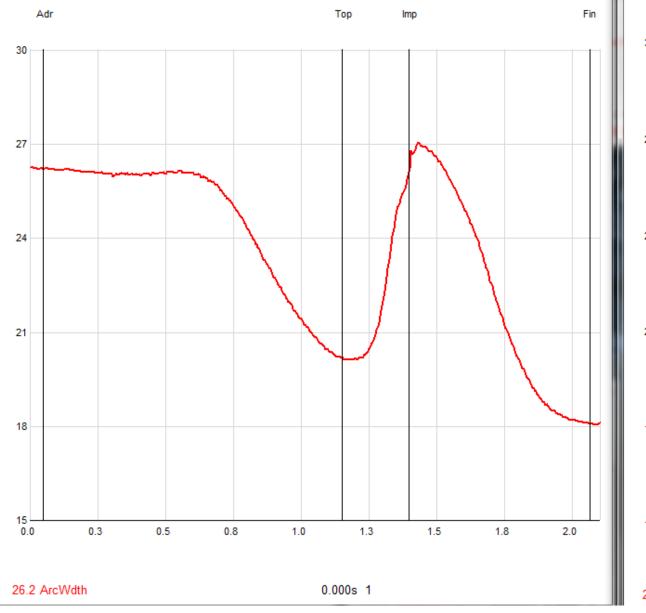


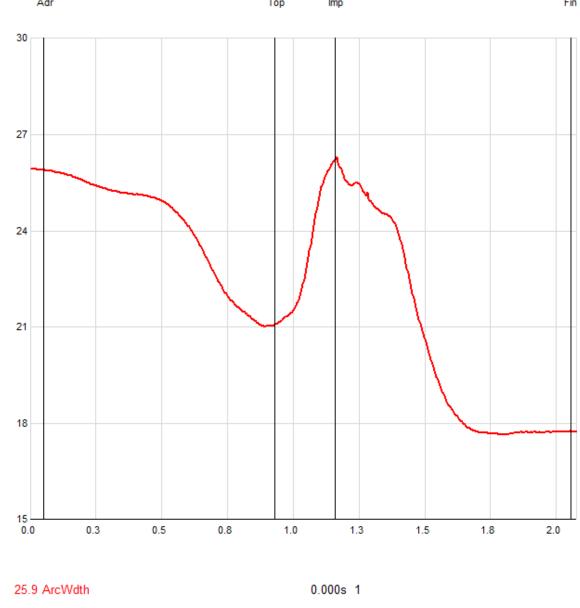


34.3 ArcWdth 0.000s 1



26.7 ArcWdth 0.000s 1





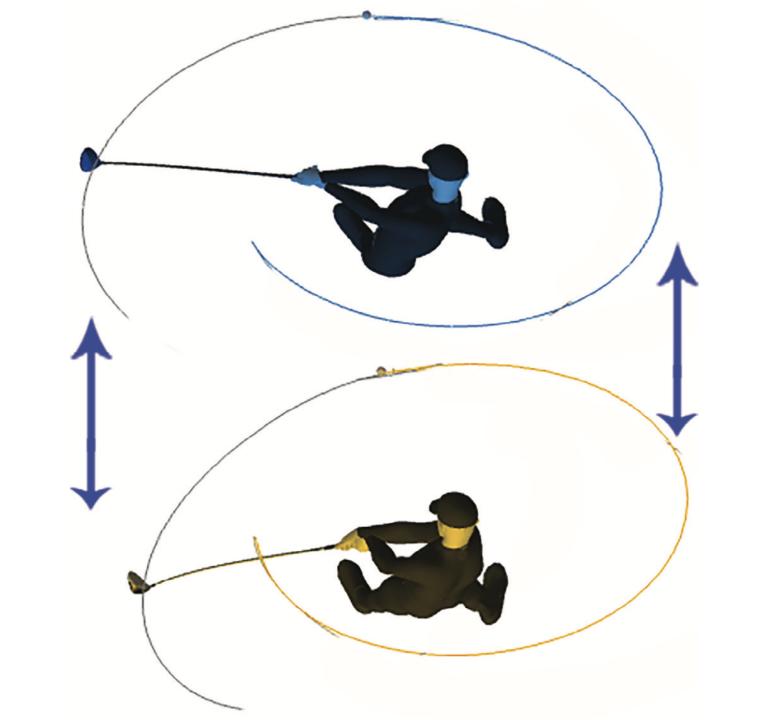
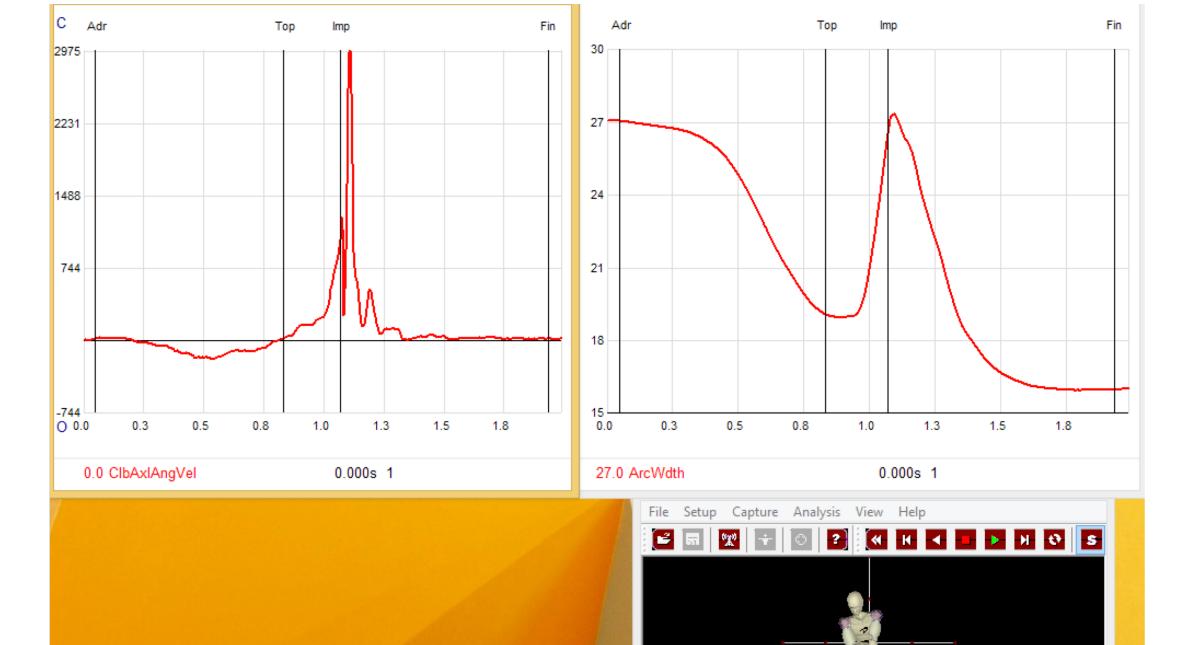


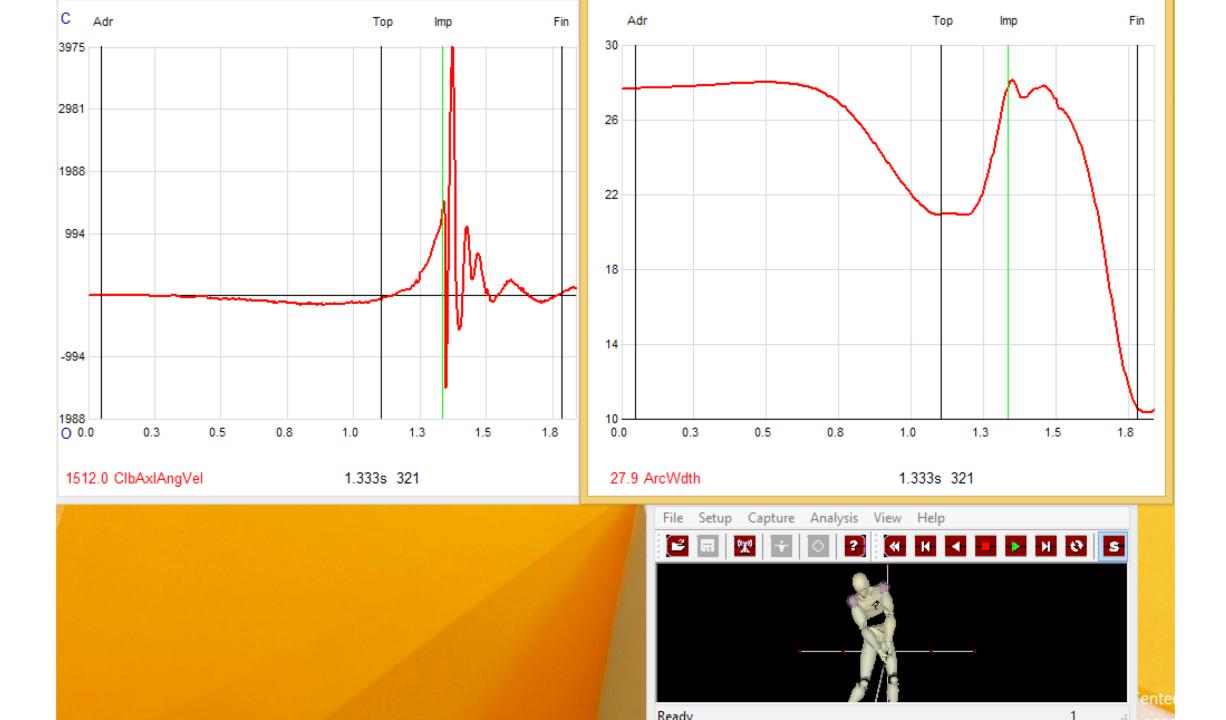


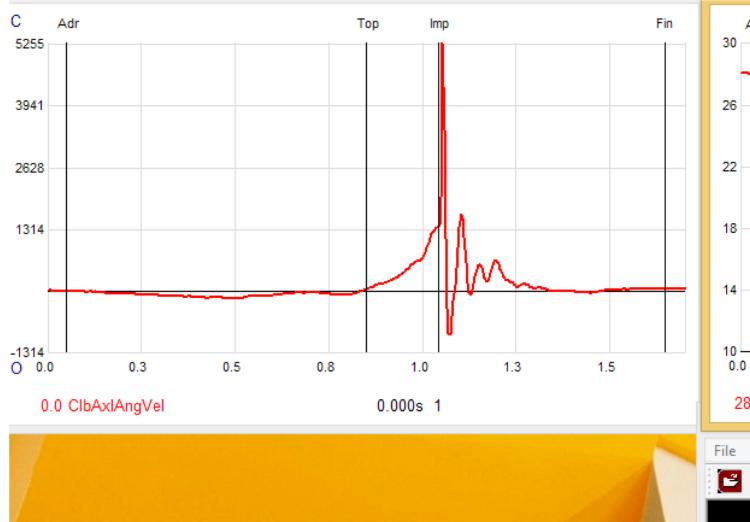
Figure 11.9

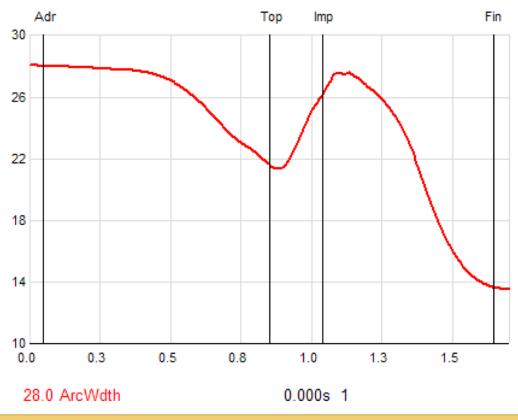




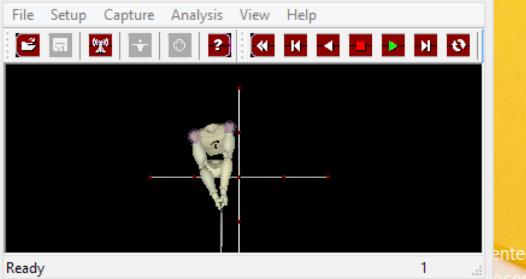
Ready

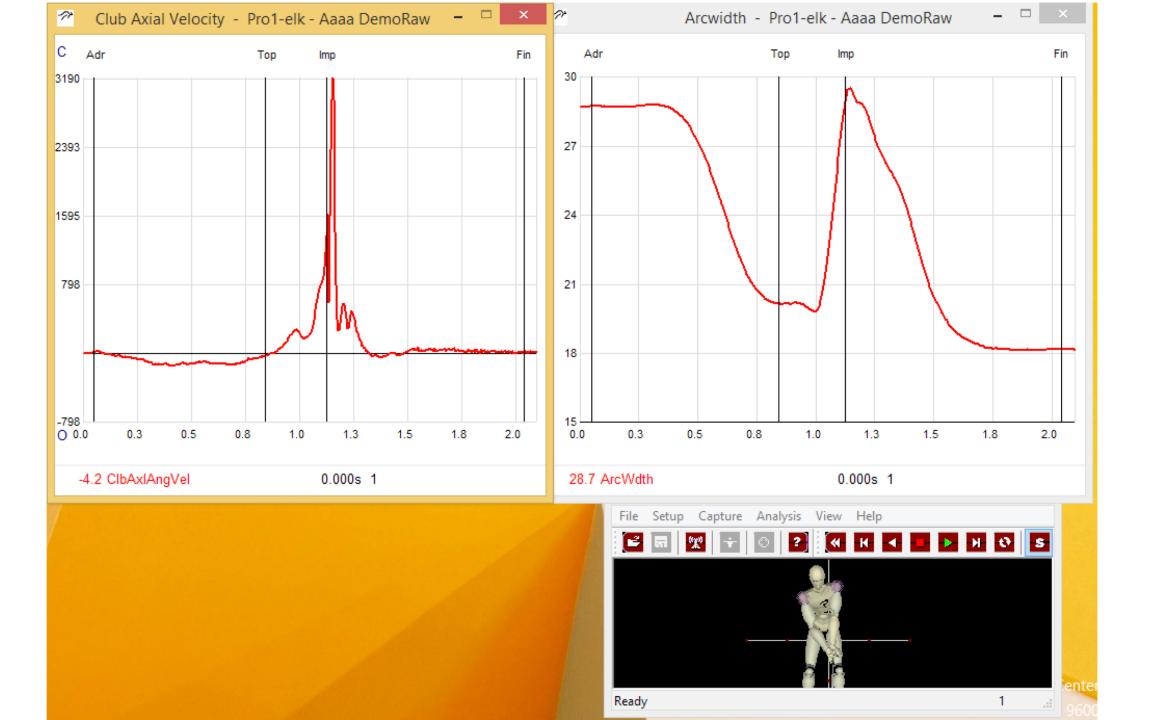


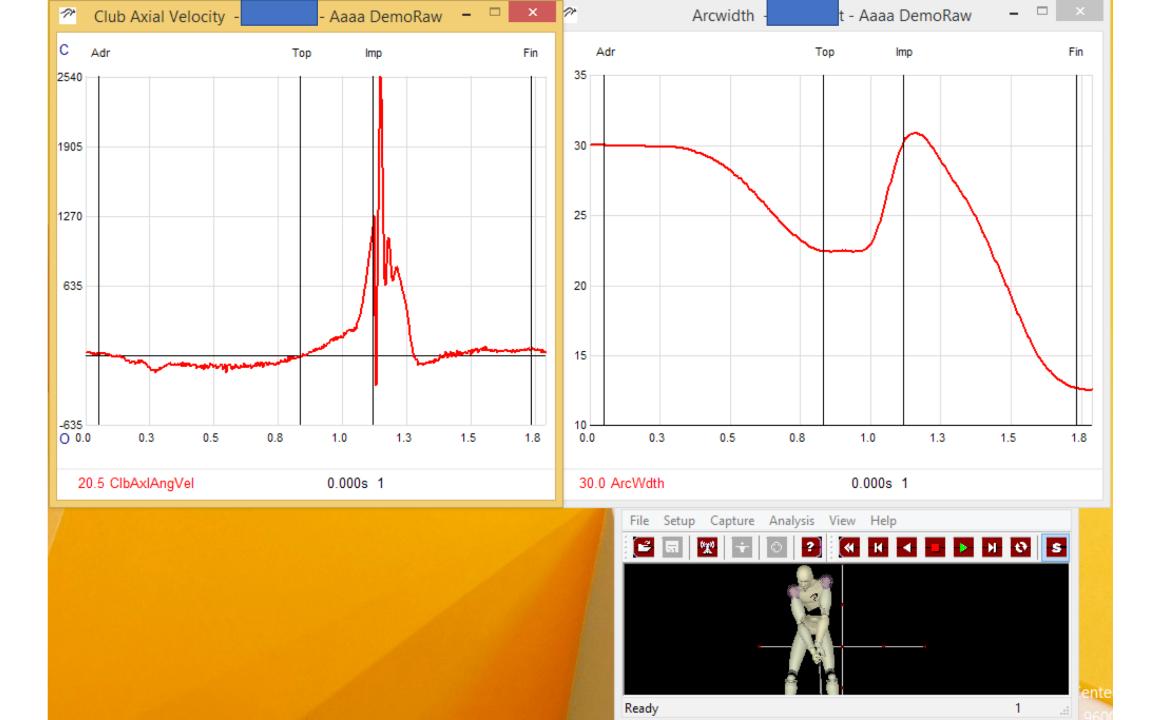


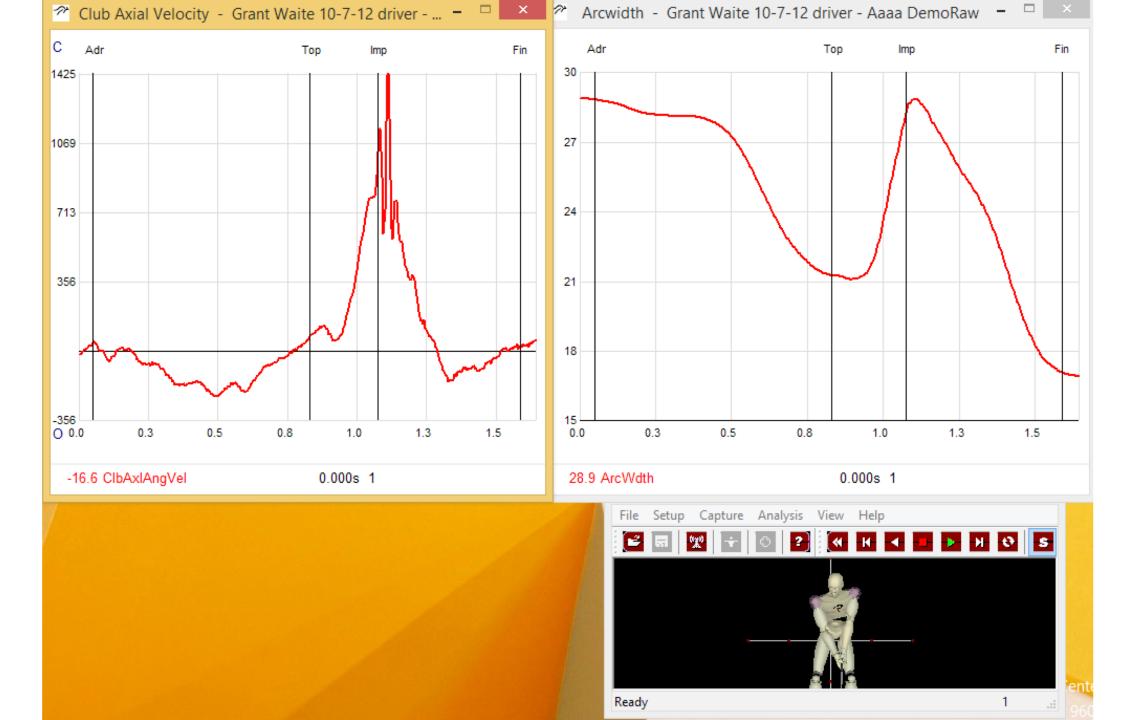


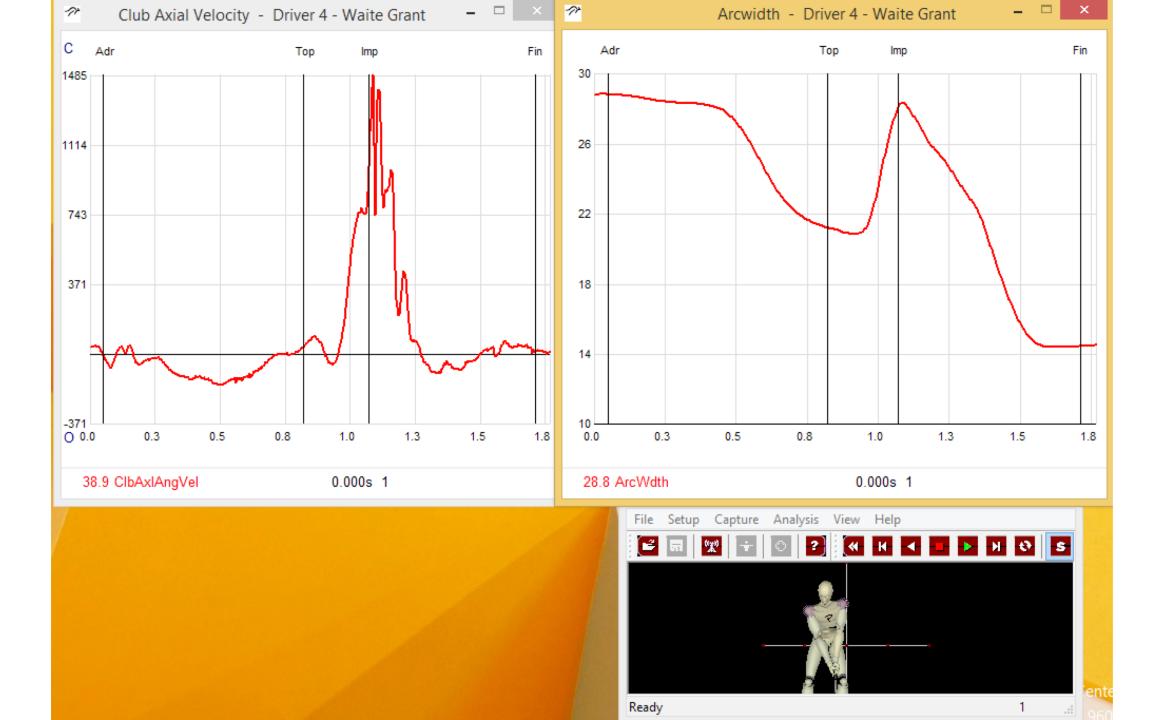




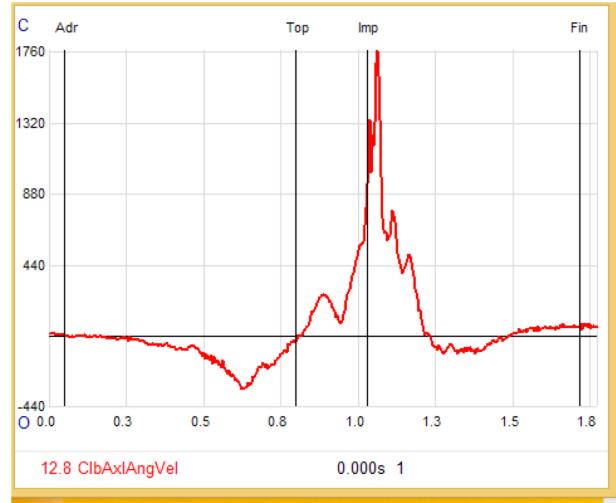


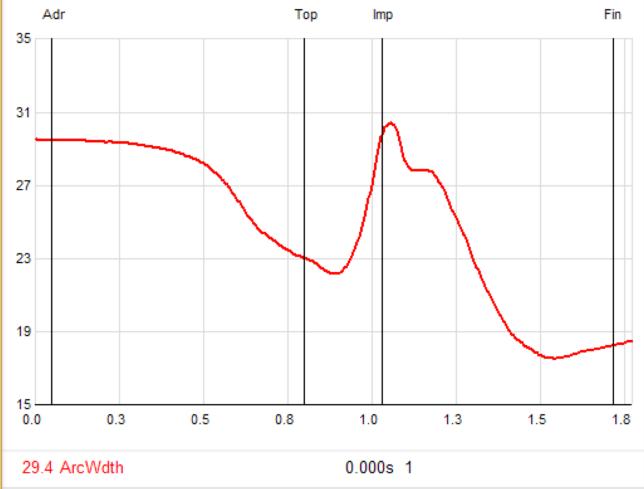




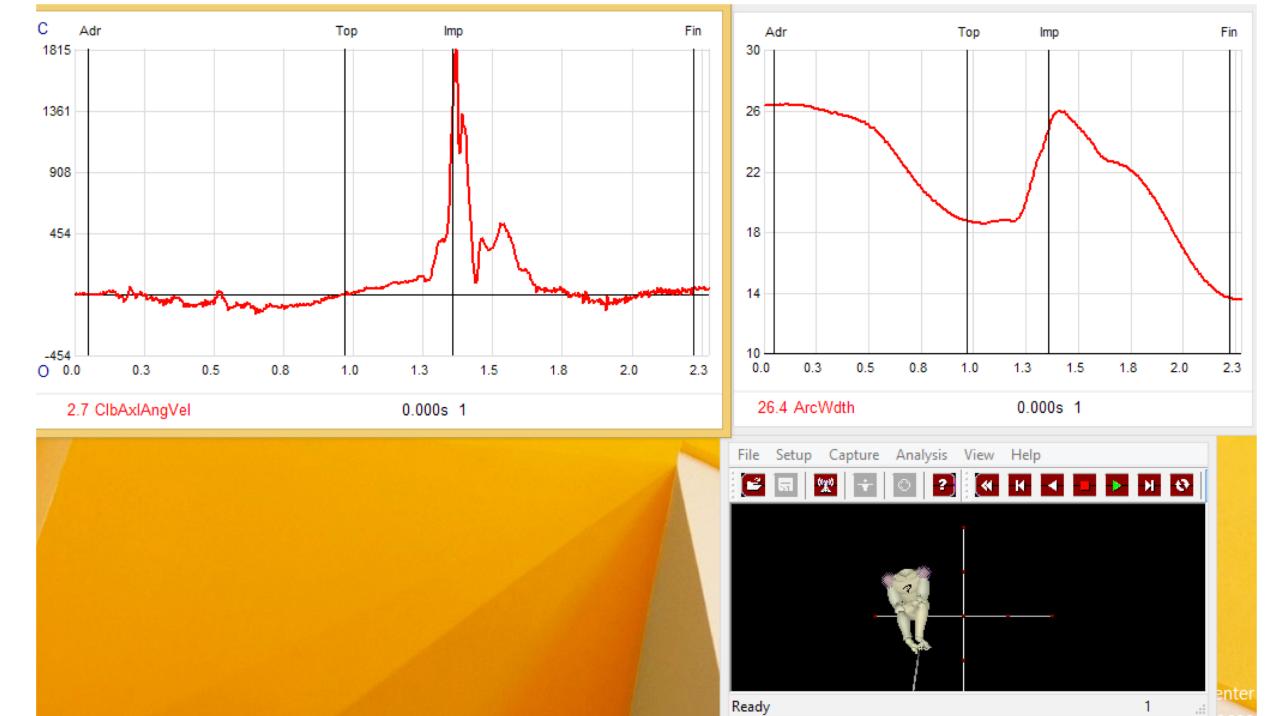


College kids

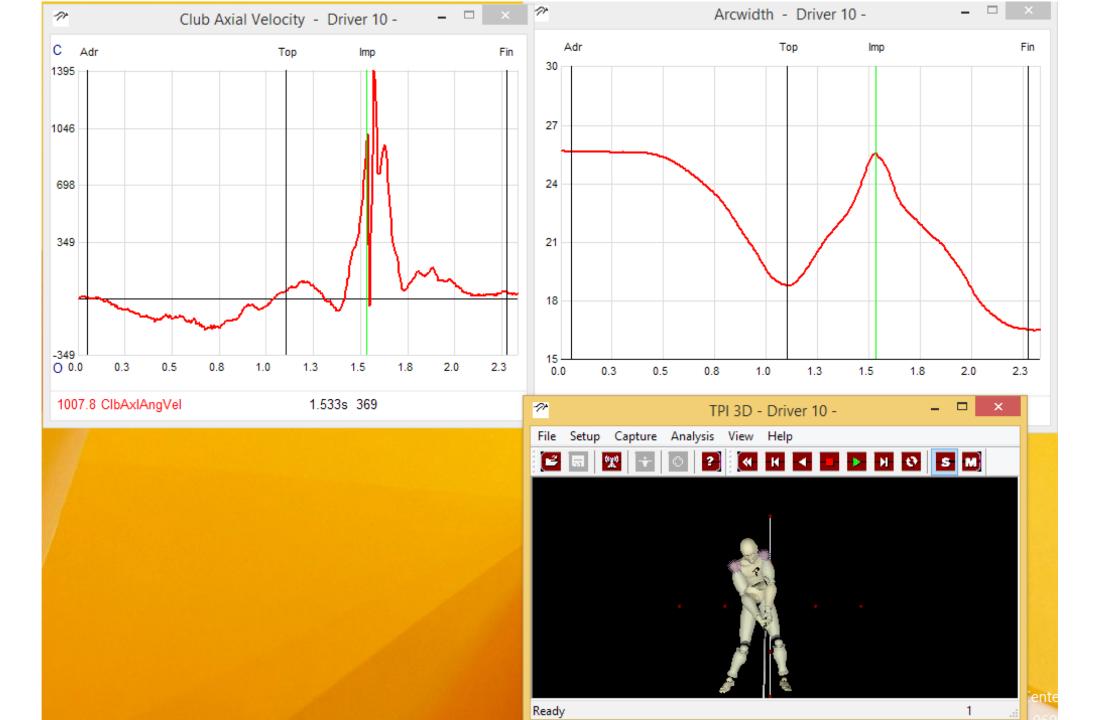


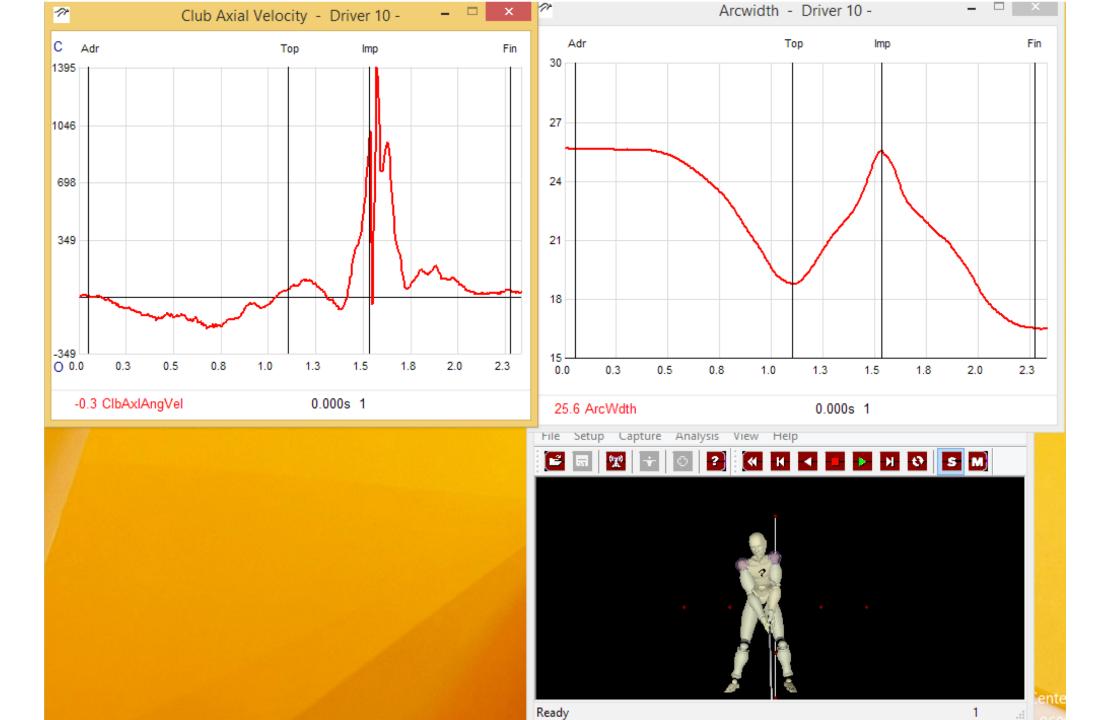


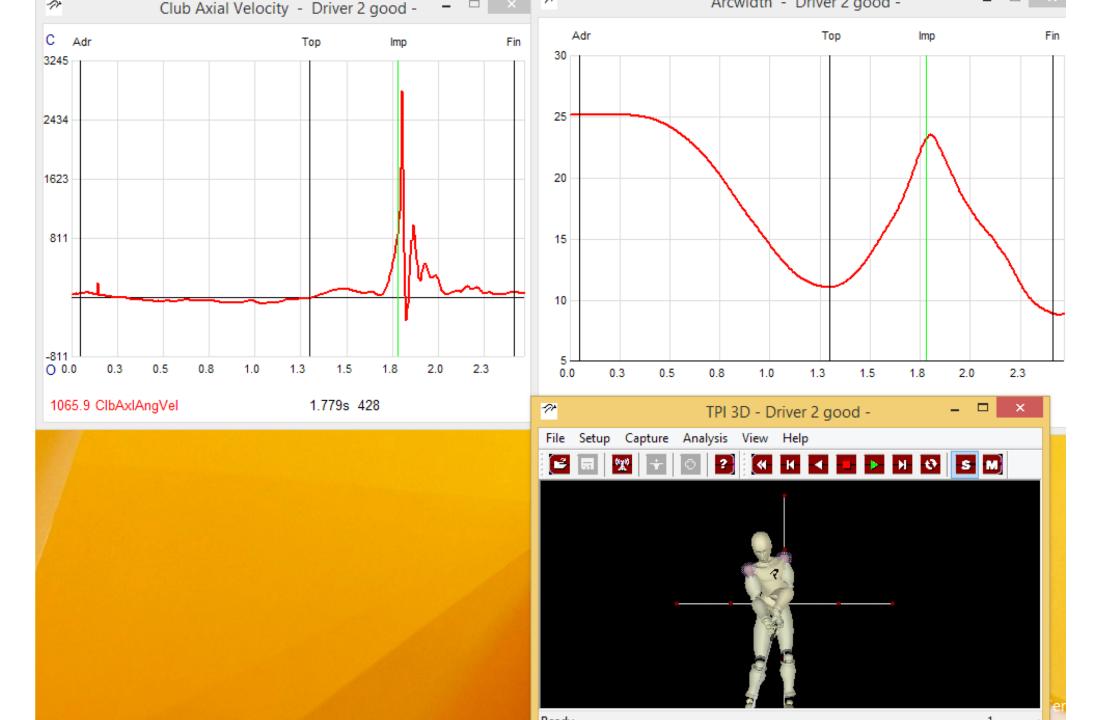
File Setun Canture Analysis View Heln



High Handicap





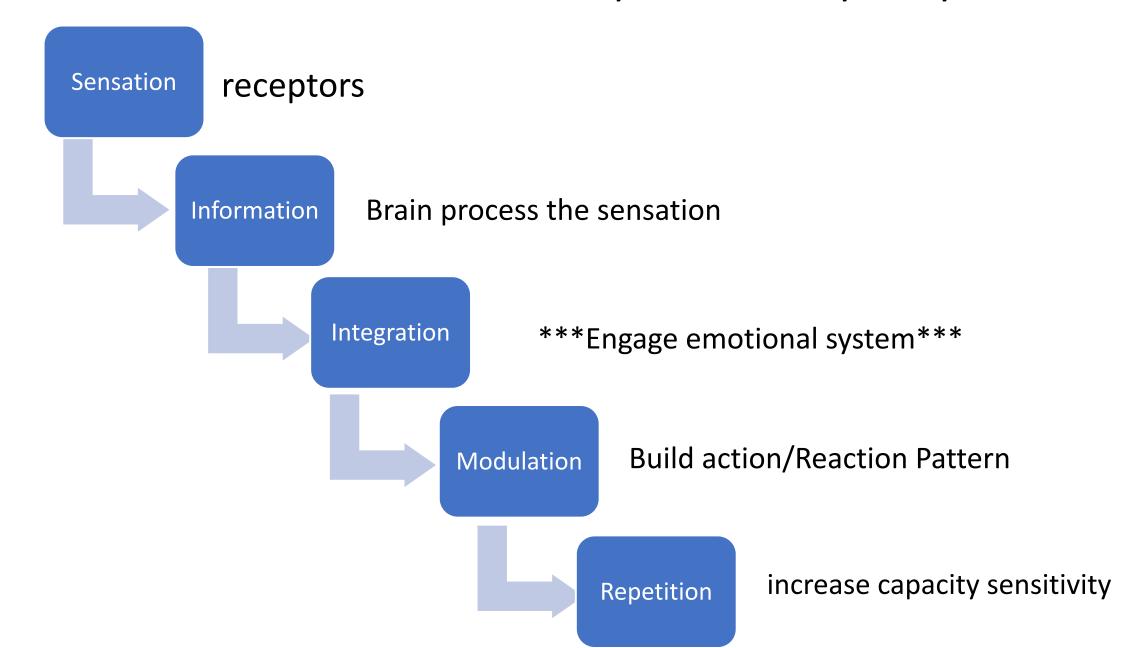




Teaching Movement is Teaching Awareness

"Speak to the brain, not the client" – Dr. Guy Voyer

Awareness Scheme Theory – Dr. Guy Voyer



Receptors send information through the nervous system to the brain

- 1. Chemical
 - 1. Smell/Taste
- 2. Physical
 - 1. Touch
 - 2. Vision
 - 3. Auditory

- 1. Visceral
- 2. Proprioceptors
 - 1. Tendons, muscle tissues
- 3. Pain
- 4. Thermoceptors

2 Keys – Quality of information and integration of emotions

Managing emotions – let it pass

Make room for it and let it pass

Play how you practice, practice how you play

The recipe for teaching awareness — quality of information

- 4 Stages of awareness training
 - 1. Transcendental Reference Absolute/fixed reference
 - 2. Receptors Using sensory information (physical and proprioceptors)
 - 3. Cortical Internal map only
 - 4. Complex automatic pattern training

The recipe applied to golf

Awareness Stages

- 1. Transcendental Ref Shafts in the ground, objects, brain cannot argue with!
- 2. Receptors Video, Instructor touch,
- 3. Cortical golfers own brain, "what wasn't right on that one?"
- 4. Complex doing two things at once, less conscious

"To master a global movement, master all segments involved"

Dr. Guy Voyer

Gym Training Aids

- Closed Kinetic Chain
- Slow it down
- Exaggerate
- Add resistance
- Train antagonist muscles
- Train timing
- In season close to the pattern
- out of season complements

Q&A-Jon

- Can you explain how you look at match ups in the swing
- - With all of the 3d you have seen on tour players, what are similarities you see in the backswing?
- How much does the pelvis drop on average for a full swing in the downswing?
- How much does the head move in the backswing on average?
- How much does the trail knee straighten in the backswing and what causes that?

Case Study – European Challenge Tour



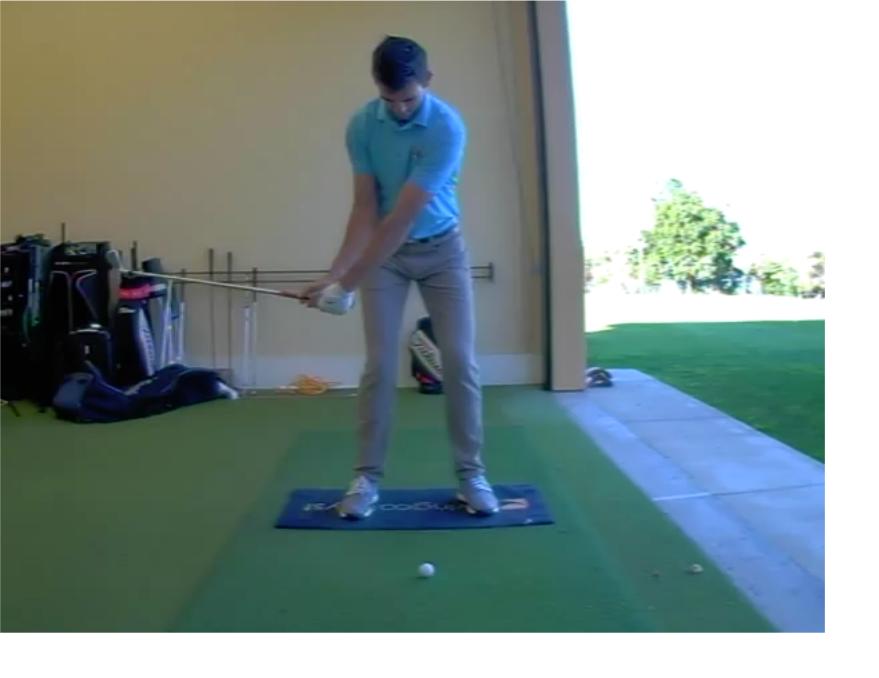












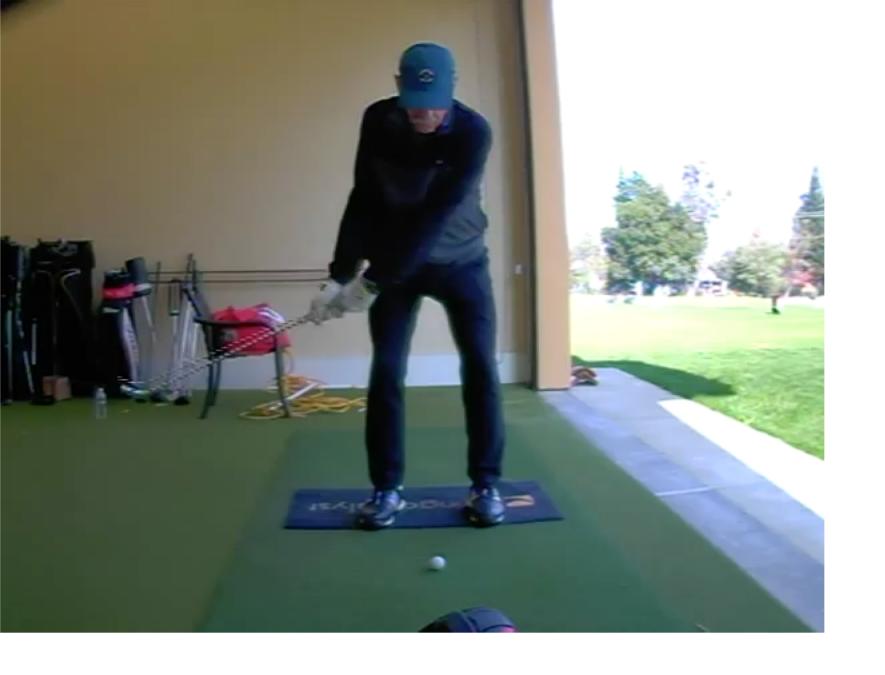


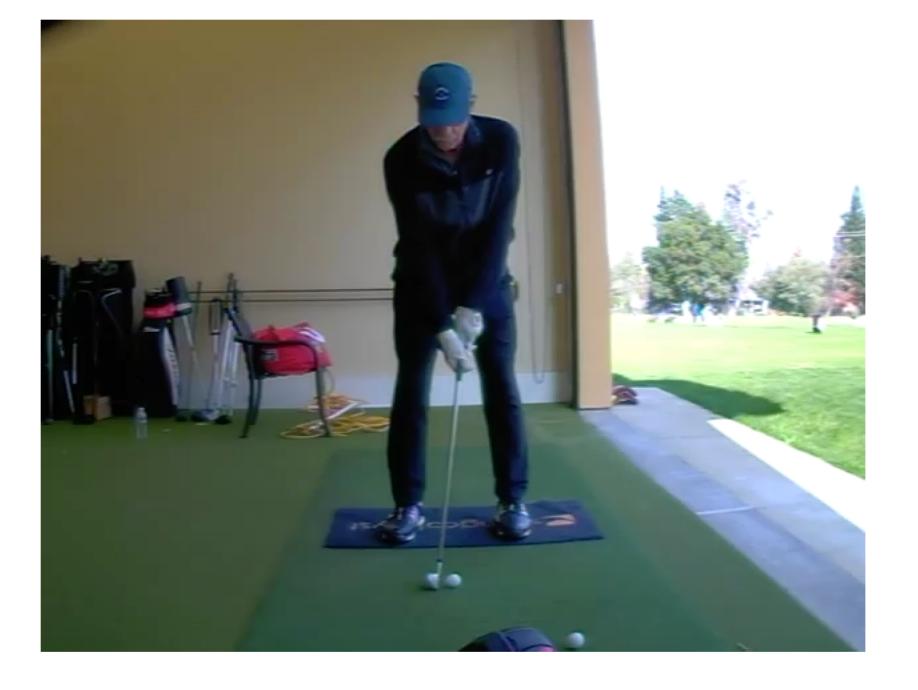


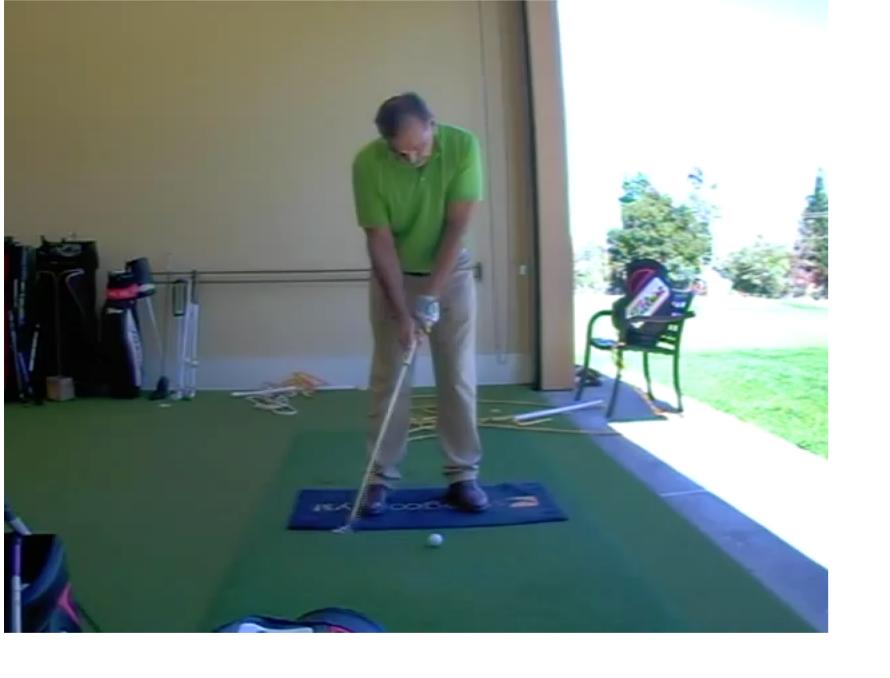


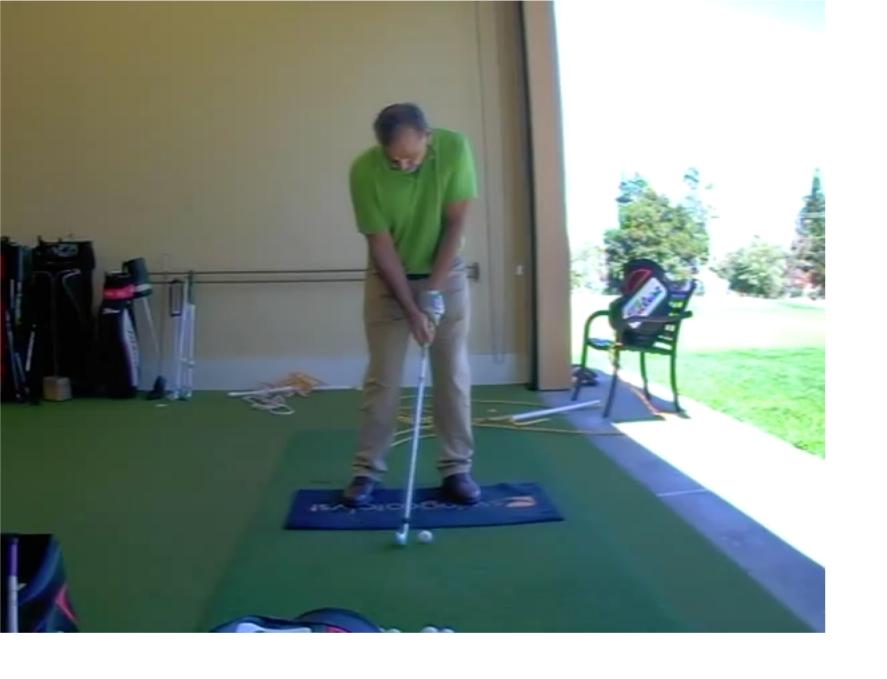


Putter 9-3













- 3 essential skills Speed/Line/Read
- Sean O'Hair "stop trying to make putts and focus only on trying to make the the ball stop one foot beyond the cup."
- Web.com finals "I couldn't even breathe out there!" Doing your job in the face of fear! — Emotions don't go away!

Each practice – no less than 2 short putt and 2 lag putt exercises

Purposefully create errors to enhance learning

- 3 R's Read, Roll, Reflect
 - "The reflection process includes thinking back to what you had in mind both before and during the stroke, and what you felt upon observing the result"
 - Very important not to try and "fix" every missed putt
- In practice, I am far less tolerant of errors than I am in play.
- Negativity shuts down learning it turns errors into threats rather than learning opportunities.

Consistency is not coming

 Reading greens is easy. Starting online is a little harder. Controlling speed takes work.

- Speed Stroke Length, Rhythm, Timing
- Metronome 76 beats, then 82 play around and find your optimal

- "I don't see lines, I see cones"
- Seeing putts –
- Entry point, aim point, aim then entry, start line

