



Coaching Para Field: Mastering the Form

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Posture

- Improves balance
- Increases strength
- Prevents injury
- Improves body movement and height of throw



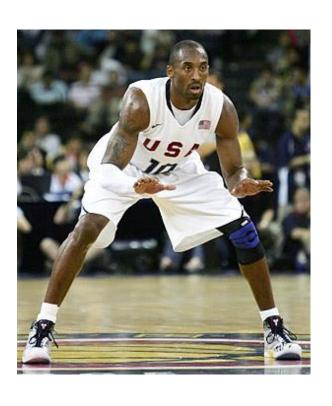




Athletic Position = Athletic Posture







- Building force
 - Large muscles and joints (legs, hips, trunk) start the throw
 - Smaller muscles and joints (shoulders, arms, hands) finish the throw



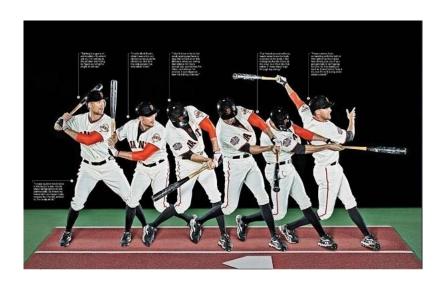






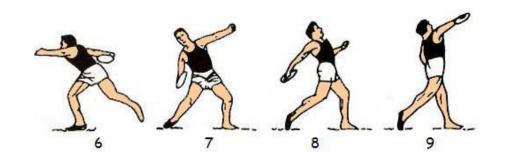
Building Force - Moves from Bottom-Up



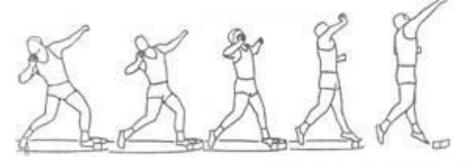




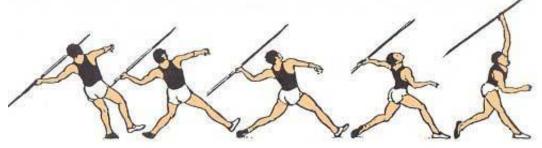
Building Force - Hips... Pits... Lips... Finger Tips









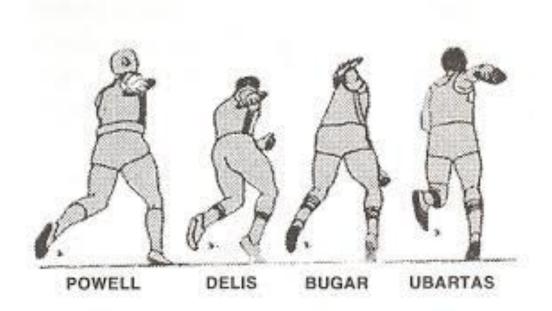


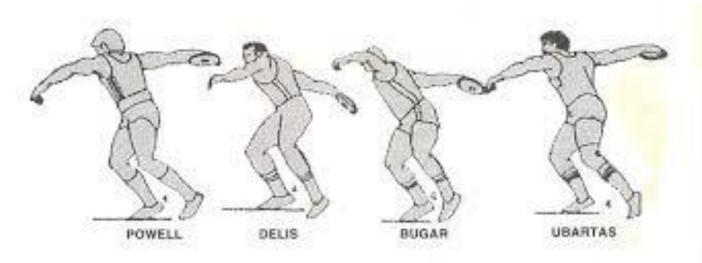
- Separation and torque
 - Body first... winds and second... un-winds
 - Torque tendency of a force to rotate an object about an axis











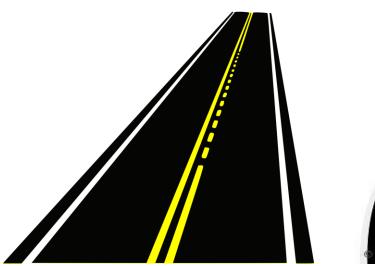
Elite throwers hitting the power position viewed from the front.

Acceleration

Stop to slow to fast



Always accelerate... throwing rhythm





- Approach (preliminary movements)
 - Keep body and implement on straight path
 - Develop momentum, rhythm, and speed







- Increase implement path
 - Power position and wrapping up
 - Long and straight throwing arm







- Blocking
 - Stop the non-throwing side, increase speed of throwing side
 - Block with both the lower and upper body

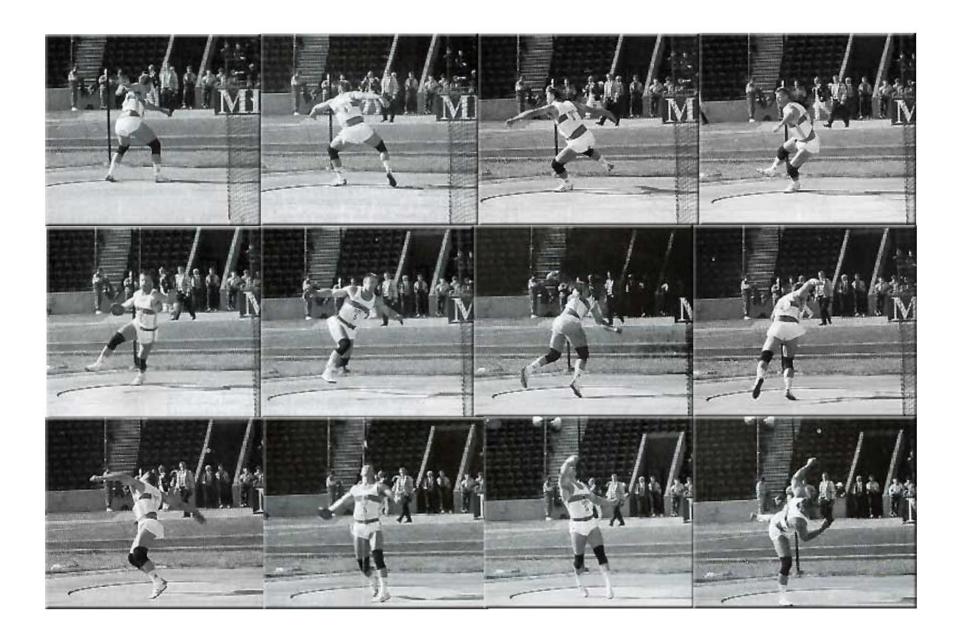




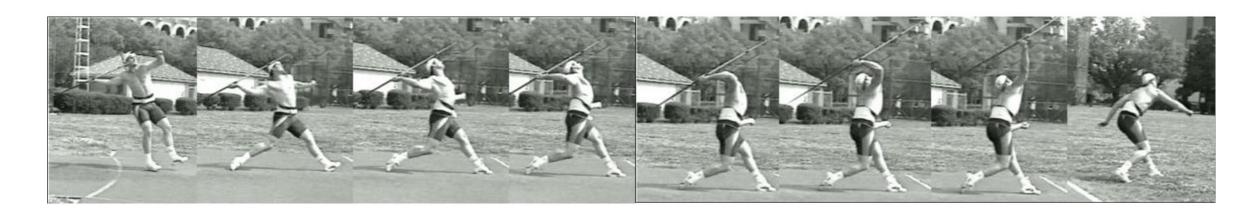












Release matters

- Height
- Angle
- Velocity (speed)

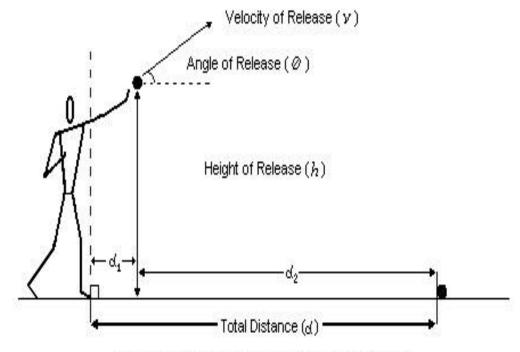
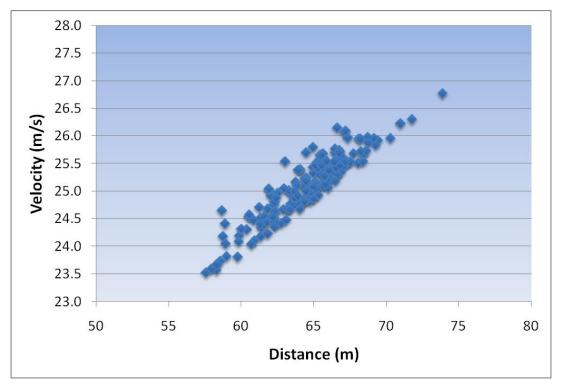


Figure 1: Diagram of release parameters affecting the total measured distance of a throw.

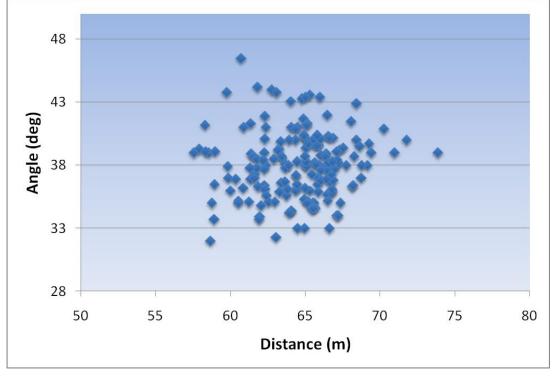
Release Matters

Release Velocity (speed)



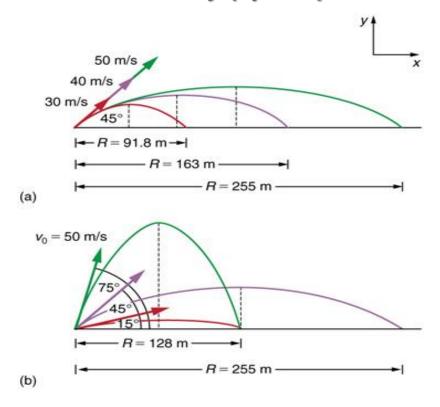
Release Angle

- 32-36 Degrees- Shot put
- 39 Degrees- Discus
- 35-41 Degrees- Javelin

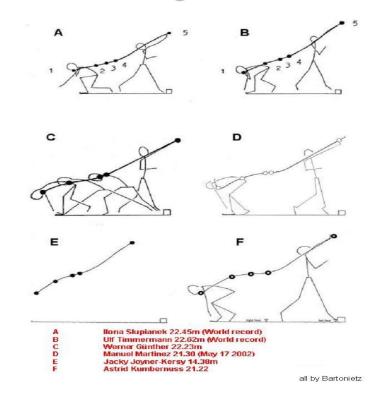


Release Matters

Release Velocity (speed)



Release Angle



Increase Release Velocity (speed)

 Improve balance and agility – summation of forces throughout phases of throw

Improve flexibility – body separation and torque

Improve strength and power – ability to create force

• Improve throwing technique – optimize strength and power

Throw Far!







