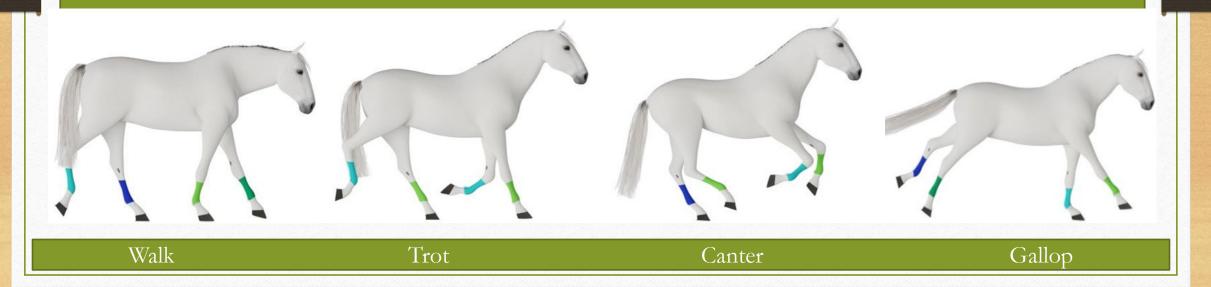
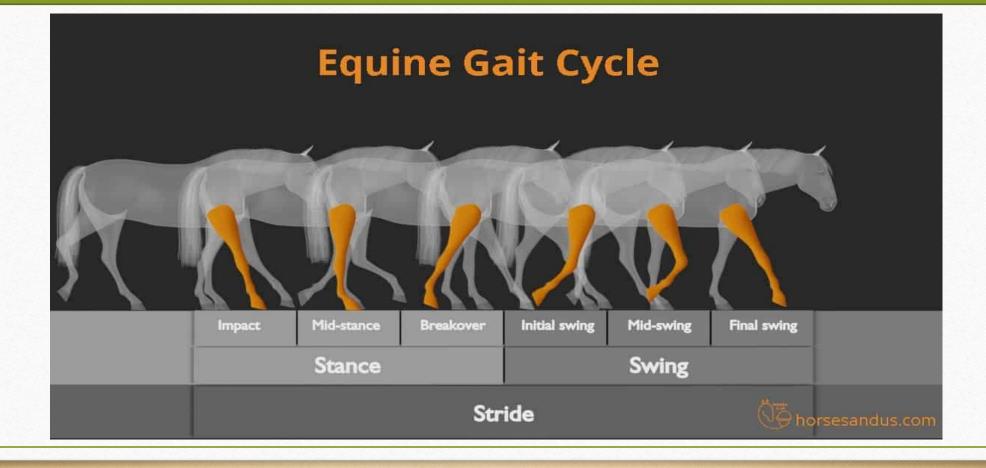
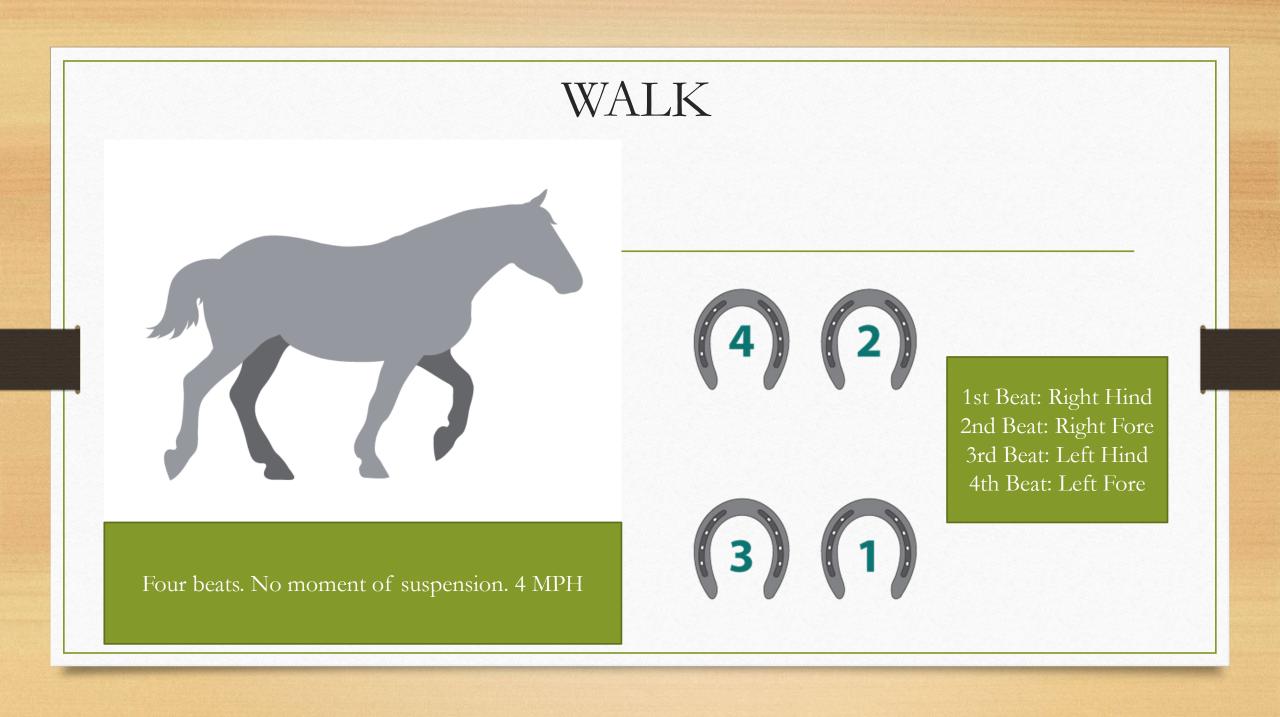


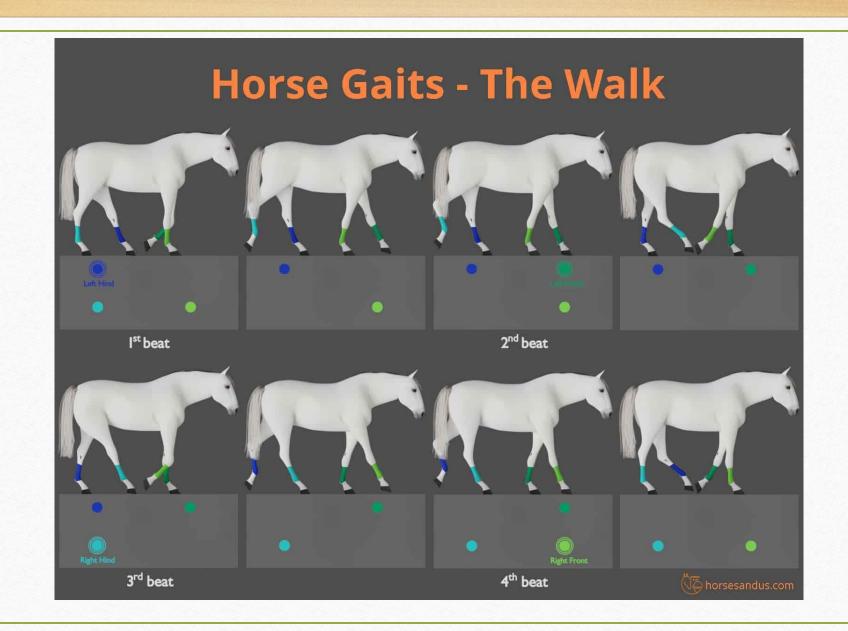
Gait - distinctive movement, specific rhythmic pattern at a particular speed
When the horse changes speed, they transition into another gait
Symmetrical gaits – walk & trot. Limb pattern on one side repeated on the other side
Asymmetrical gaits – canter & gallop. Limb pattern not repeated
Stride – gait cycle, all 4 limbs complete their movement
Beat – each individual footfall within a stride
Walk has 4 individual footfalls ~ 4 beat gait
Trot has 2 individual footfalls ~ 2 beat gait

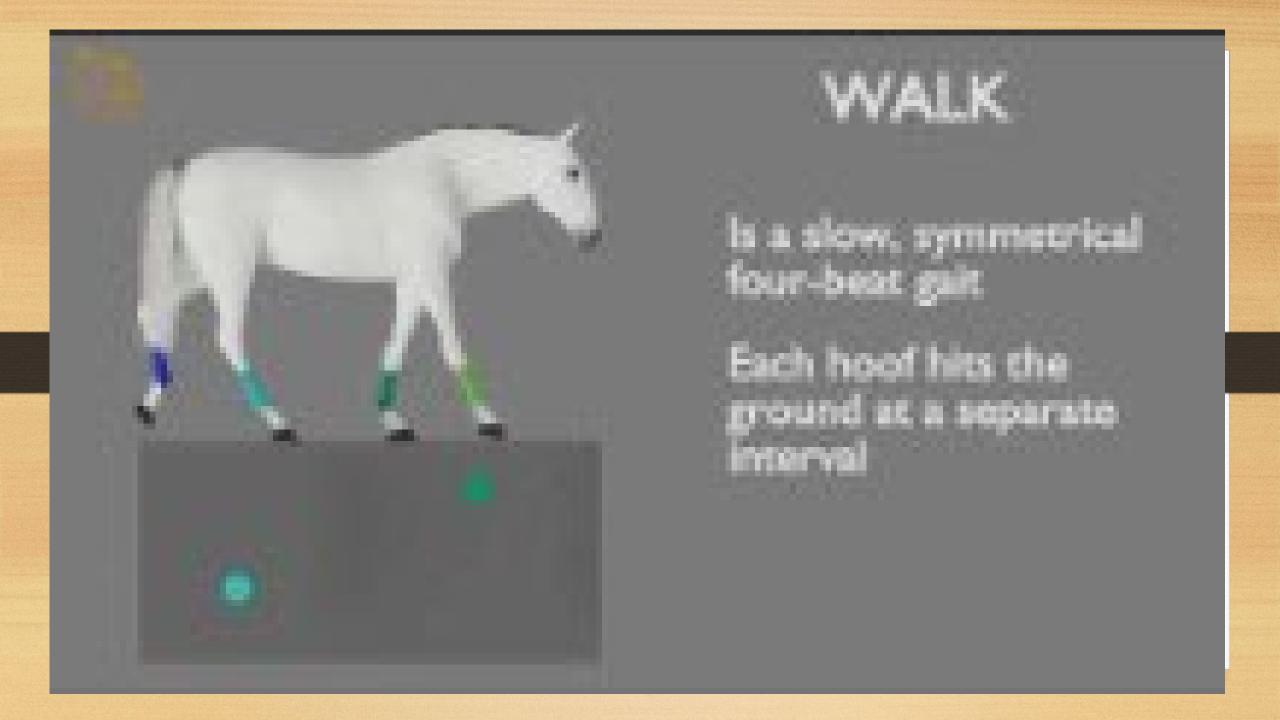


Stance phase – hoof in contact with the ground Impact (footfall) when hoof hits the ground Breakover (lift-off) when hoof leaves the ground Swing phase – hoof has no contact with the ground

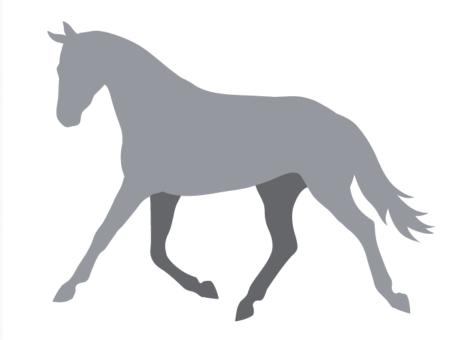








#### Trot ~ best gait for lameness detection



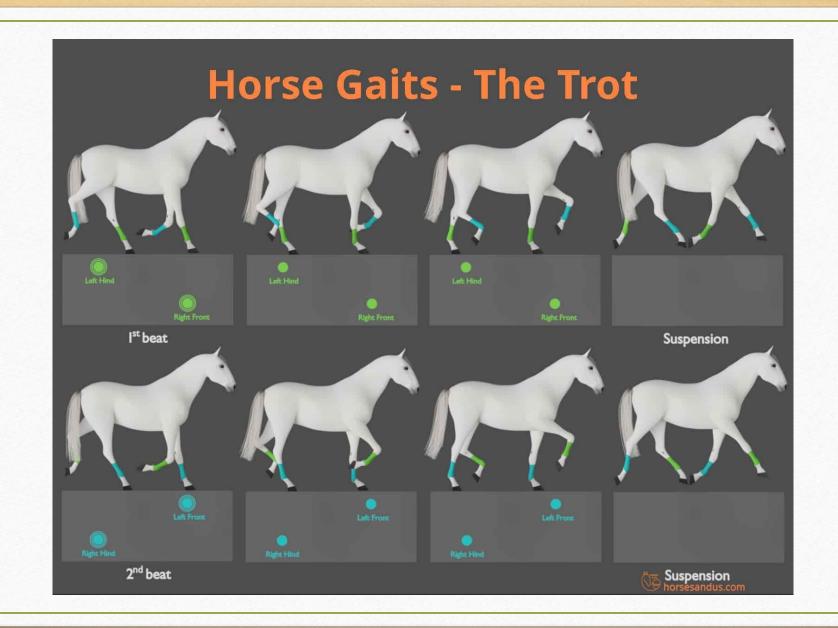


1st Beat: Left Fore Leg/Right Hind Leg

2nd Beat: Right Fore Leg/Left Hind Leg

Two beats, 6 MPH, moment of suspension, legs move in diagonal pairs







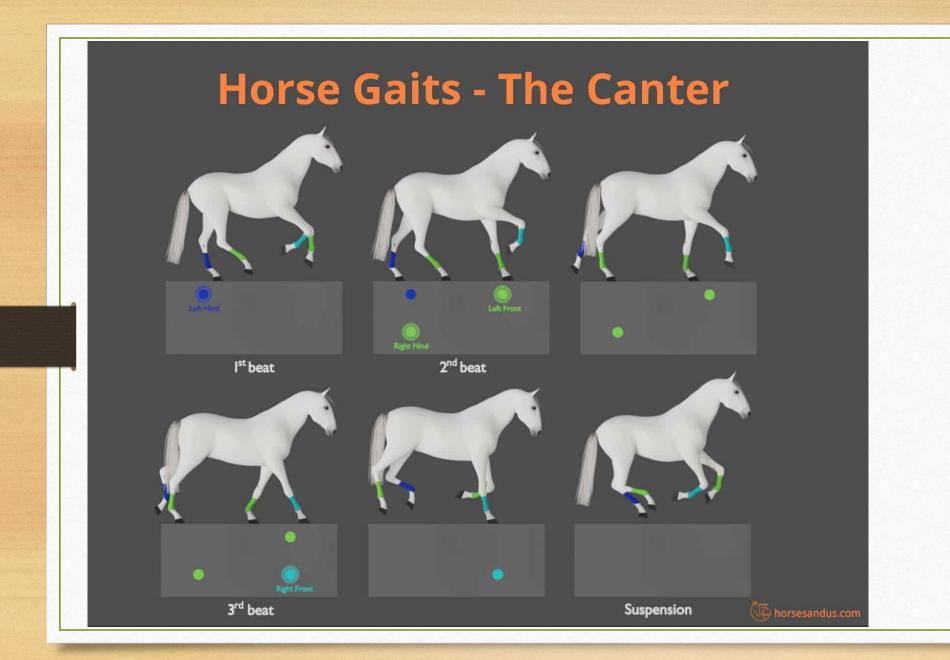
# TROT

ls a fast, symmetrical, two-beat diagonal gait

# Each diagonal pair hits the ground at a separate interval, intercalated with

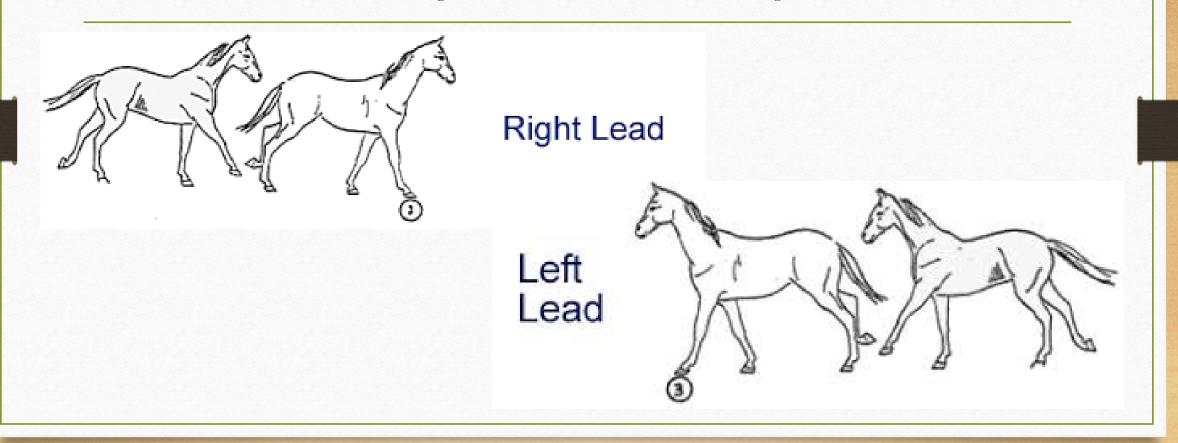
#### a period of suspension

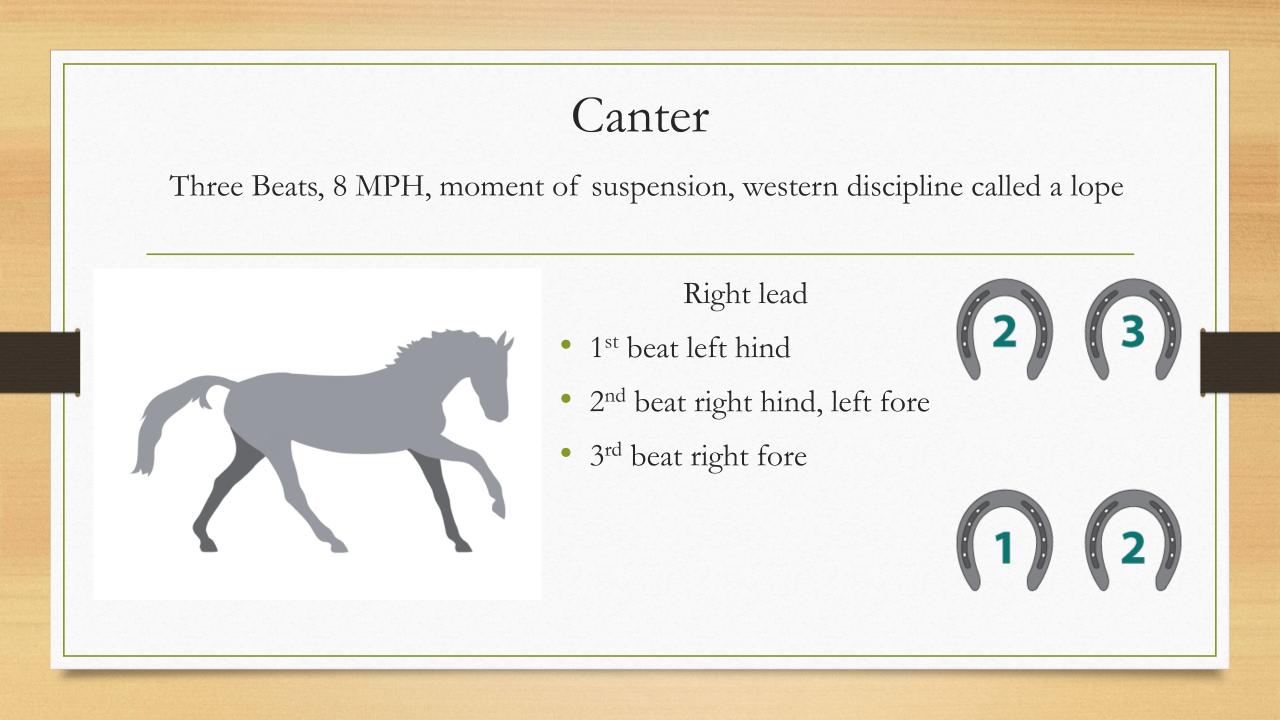




#### Leads

A leading front leg that stretches out further than the other leg. Usually, the inside leg if you're riding in an arena. When cantering in the right direction, horse's right front leg should lead. When cantering in the left direction, horse's left front leg should lead.





## Canter Left lead 3 2 ) 1<sup>st</sup> beat: Right hind • • 2<sup>nd</sup> beat: Left hind, right fore • 3<sup>rd</sup> beat: Left fore (2) 1

Gallop ~ four beats. 15 MPH. Moment of suspension. Faster canter



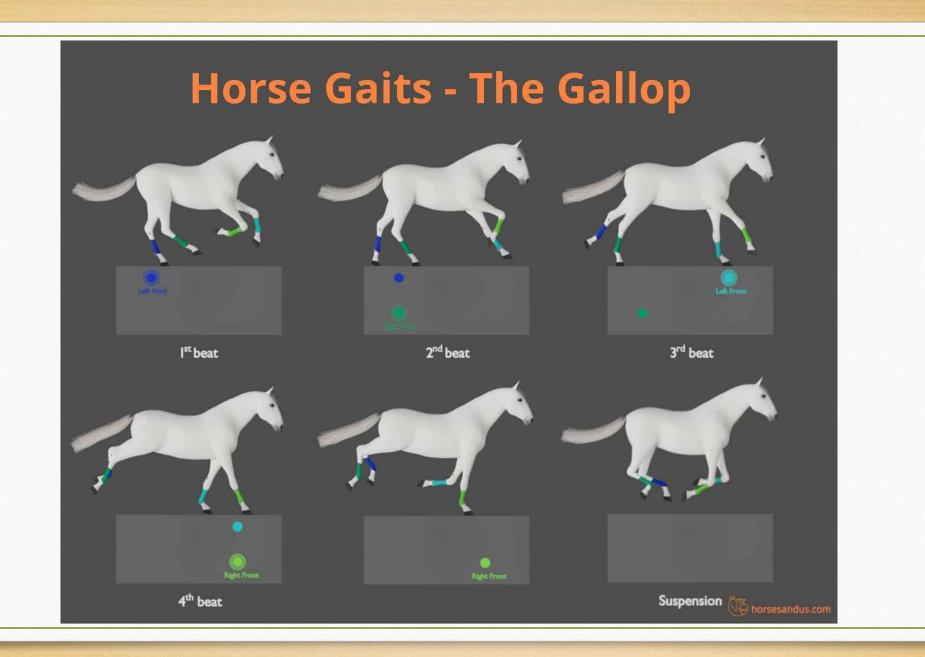


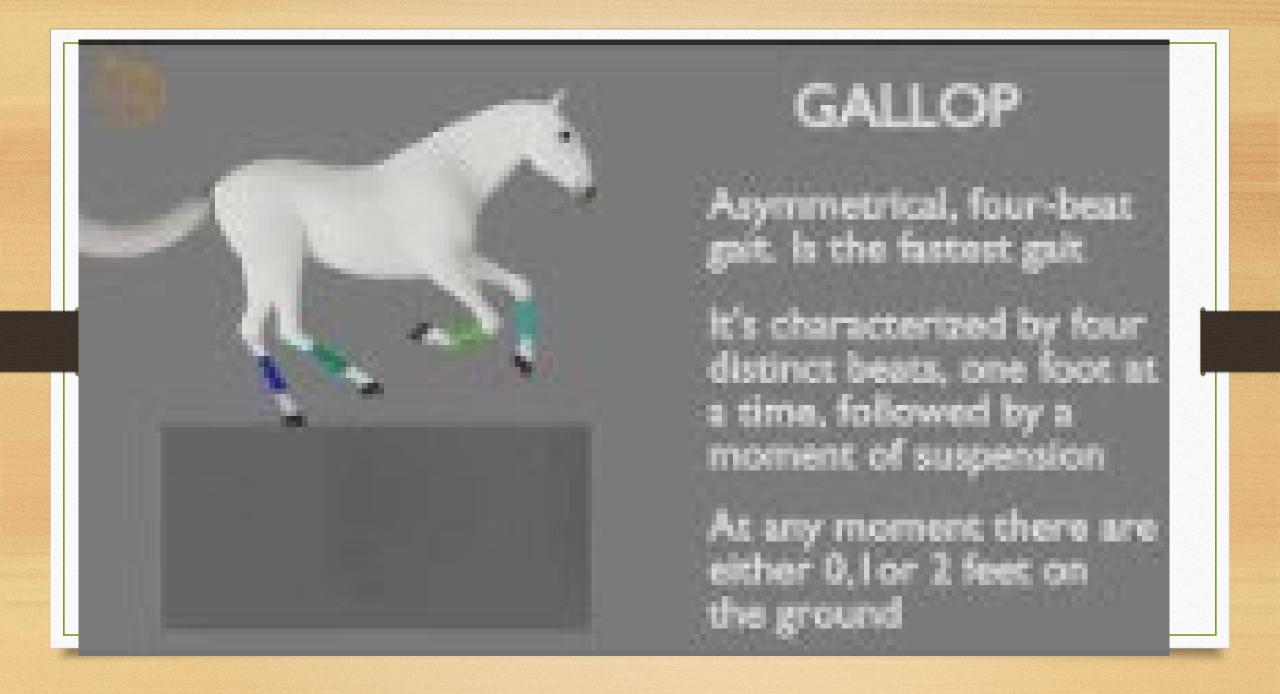


Right lead 1<sup>st</sup> beat left hind 2<sup>nd</sup> beat right hind 3<sup>rd</sup> beat left fore 4<sup>th</sup> beat right fore



Left lead 1<sup>st</sup> beat right hind 2<sup>nd</sup> beat left hind 3<sup>rd</sup> beat right fore 4<sup>th</sup> beat left fore





### References

- All Pony <u>https://allpony.com/learn/gaits/</u>
- The 4 basic horse gaits explained (diagrams and animations) <u>https://www.horsesandus.com/the-4-basic-horse-gaits-explained/</u>