```
using UnityEngine;
using System.Collections;
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 */
public class FollowCamera : MonoBehaviour
                   //object to follow
                   public GameObject target;
                   //camera follow parameters
                   public float followSpeed;
                   public float horizontalOffset;
                   public float verticalOffset;
                   public float minSpeed;
                   private Vector3 normalizedVelocity;
                   private Vector3 newCameraPosition;
                   private float trackingSpeed;
                   //LateUpdate() made for a jerky camera so this code was
moved to FixedUpdate()
                   void FixedUpdate ()
                                      //calculate desired new position of the
camera based on the ball's velocity (direction) and offsets
                                      normalizedVelocity = Vector3.Normalize
(target.rigidbody.velocity);
                                      newCameraPosition =
target.transform.position - (normalizedVelocity * horizontalOffset) +
verticalOffset * Vector3.up;
                                      //use the magnitude of the ball's
velocity to smooth camera transitions,
                                      //but we don't want the camera to be too
slow
                                      trackingSpeed =
target.rigidbody.velocity.magnitude;
                                      if (trackingSpeed <= minSpeed)</pre>
                                                         trackingSpeed =
minSpeed;
                                      //move camera to new position smoothly
via lerp and keep the camera pointed at the ball
                                      transform.position = Vector3.Lerp
(transform.position, newCameraPosition, Time.deltaTime * trackingSpeed *
followSpeed);
                                      transform.LookAt (target.transform);
                   }
}
```