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And the reason they can accomplish this is because they are in motion. As a result of their motion, the error spreads much faster than diffusion allows for.

































so they are constantly drifting past other birds,



thus spreading the error to those that they pass.



As a result, the cloud of information being spread grows perpendicular to the forward motion of the flock because the green bird is able to spread the error convectively to those on their right and left.

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The green bird's forward and backwards motion is still about the same as everyone else's, so the message still spreads diffusively in those directions.





They can share the message to their neighbors,



but since they are not passing other flock members, they are *only* able to share with their neighbors, so the spread of information is much slower.





Think of Paul Revere. He would have not been able to spread *his* message as quickly if he were spreading it by word of mouth rather than riding through town, right?







