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The Perfect Swing

Using advanced computer technology, Gideon Ariel has proved what we've known all along: The perfect swing is different for each of us



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In this article, Gideon Ariel, a biomechanical analyst, uses advanced computer technology to analyze the golf swings of Jack Nicklaus and President Gerald Ford. Ariel's technology allows him to measure data on each body movement, including velocity, rate of acceleration and deceleration, location of center of gravity, joint forces, and moments of force. He concludes that there is no universal perfect golf swing as everyone is built differently. However, he suggests that each individual can create their own perfect swing. Ariel's analysis reveals that the downswing is the most crucial part of the swing, and the positions of the hands and club at impact are extremely vital. He also emphasizes the importance of the legs as stabilizers in the swing. Ariel's work aims to quantify human movement in golf, providing a more precise understanding of golf technique.

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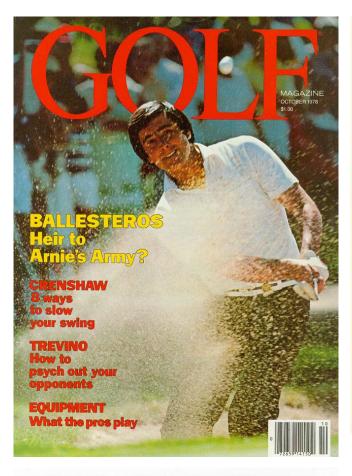
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Below find a reprint of the 5 relevant pages of the article "The Perfect Swing" in "Golf Magazine":





GOLF October 1978



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"President Ford actually has a smoother and faster over-all swing than Nicklaus but his timing is not as good. He can't snap the club as well."

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swing as a whole that would prevail for all golfers. To the latter. Ariel the scientist cannot commit himself fully, again because of physical different control of the scientist cannot commit himself fully, again because of physical different control of the scientist cannot commit himself fully, again because of physical different control of the scientist cannot commit himself fully, again because of physical different control of the scientist cannot commit himself fully, again because of physical different control of the scientist cannot be reasonable guidelines for the Everygolfer. Those "basis," are what follow.

Artiel concentrated his analysis on the downswing, after concluding that follow.

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Where it happens most is at impact with the ball. The government of the hands and club at this moment are extended to the scientist of the hands and club at this moment are extended to the scientist of the hands and club at this moment are extended to the scientist of the hands and club at this moment are extended to the scientist of the hands and the scientist of the hands have to be held back at the start. I think Nicklaus does in the scientist of the hands supply the most power of a parabola, which is weater, and which is hands almost stripped to the scientist of the hands supply the most power has the scientist of the hands provide power, but only as a result of what the big, heavy nuscles do the real work. A violinist trying to play very quickly using only his foreaster and which is weater, and which cannot an extended the scientist of the produced in the scientist of the club slows down because the muscles do not contract fast enou



The stick-figure representations of Nicklaus and Ford immediately after impact dramatize the differences be-tween the two swings. Nicklaus' fig-ure shows lots of leg action com-







"The legs are important as stabilizers. Try shooting a cannon from a canoe, and you will appreciate the contribution of stabilizers."

of improvement. The way to measure this is to track the center of gravity. (c.g.) President Ford shifts his c.g. from a position 30 centimeters (esm) behind his left foot to 19 cms behi