IVAN SUTHERLAND
ABOUT

BORN MAY 16, 1938

GOT HIS MASTER’S DEGREE FROM CALTECH + HIS PH.D. FROM MIT IN EECS IN 1963.

AMERICAN COMPUTER SCIENTIST + INTERNET PIONEER

MOST KNOWN FOR HIS INVENTION OF SKETCHPAD
SKETCHPAD
INVENTIONS
SIX-LEGGED MACHINE built by one of the authors (Sutherland) moves by crawling. It does not have to balance. The six legs are controlled by a built-in microcomputer. Power comes from a 18-horsepower gasoline engine that drives separate hydraulic pumps for the left and right legs. A human driver steer the machine by making the oil flow at different rates on the two sides. Sensors report the driver's commands as well as the position of each leg and the forces on it to the microcomputer, which employs the information to choose the order and path of leg motion. Six legs ensure stability because at least three are always on the ground. Passive hydraulic circuits simplify the crawling task; a leg that is supporting weight can either be connected to the drive unit or can coast, being pushed by the ground according to the motion generated by the other legs. The diagram at the bottom indicates the position of the legs in a walking cycle, which can be denoted as (4, 3, 2, 1, 6, 5). A solid rectangle represents a leg touching the ground and an open rectangle represents a raised leg moving forward as indicated by the arrow. In the numbered walking cycle the numbers denote sequential use of the machine's six legs.
GRAPHIC PIONEER
CONTRIBUTIONS
AUGMENTED REALITY

HOW TO GET STARTED

1. MAKE SURE YOUR COMPUTER HAS A WORKING WEBCAM. (AND IF NOT, ENTER TO WIN ONE AT ESQUIRE.COM/WEBCAM.)

2. CLICK THE BUTTON AT LEFT TO DOWNLOAD THE SOFTWARE.

3. DOUBLE CLICK THE DOWNLOADED FILE.

4. OPEN THE NEW FILE ON YOUR DESKTOP.

5. HOLD UP THE MARKER ON THE COVER TO YOUR WEBCAM AND FOLLOW THE PROMPTS.
AUGMENTED REALITY
CONCERN

DISTRACTION
JUST ANOTHER MEANINGLESS MESSAGE TO KEEP YOU FROM PAYING ATTENTION TO ALL OF THE ISSUES THAT REALLY MATTER
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RELATED LINKS

“ROBERT DOWNEY JR. ON ESQUIRE’S AUGMENTED REALITY: A DEMO”
LINK: HTTP://YOUTUBE/WE/P2Z36KKNOS

“THE FUTURE OF AUGMENTED REALITY”
LINK: HTTP://YOUTUBE/TONJAHZH3L0

HIDDEN CREATIVE
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