

# ג'ורדן 1842-1899

## Carl Friedrich Wilhelm Jordan



שיטת גאוס-ג'ורדן להיפוך מטריצות

```
for k = 1 ... min(m,n):  
  Find the k-th pivot:  
  i_max := argmax (i = k ... m, abs(A[i, k]))  
  if A[i_max, k] = 0  
    error "Matrix is singular!"  
  swap rows(k, i_max)  
  Do for all rows below pivot:  
  for i = k + 1 ... m:  
    f := A[i, k] / A[k, k]  
    Do for all remaining elements in current  
row:  
    for j = k + 1 ... n:  
      A[i, j] := A[i, j] - A[k, j] * f  
  Fill lower triangular matrix with zeros:  
  A[i, k] := 0
```