## Cholesky Decomposition with row pivoting

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Exercise sheet 4

```
[X, Y] = meshgrid(linspace(0,1,4001));
A = exp(-(X-Y).^2);
[L,p] = pchol(A, 1e-9);
B = L*L.';
norm(A(:) - B(:))

ans =
    1.3837e+03

chol(A)

Error using chol
Matrix must be positive definite.

Error in Aufgabe5_Blatt4 (line 16)
chol(A)
```

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