Walsh matrix

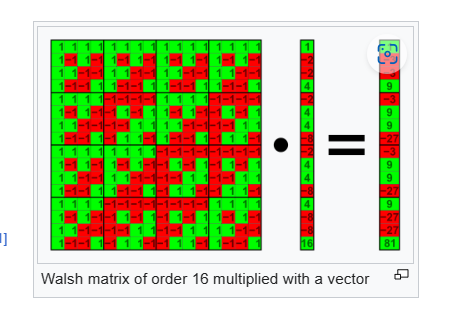
Intro

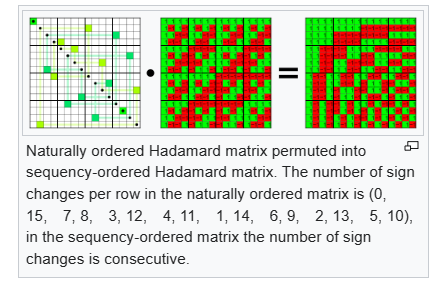
It is a square matrix that satisfies:

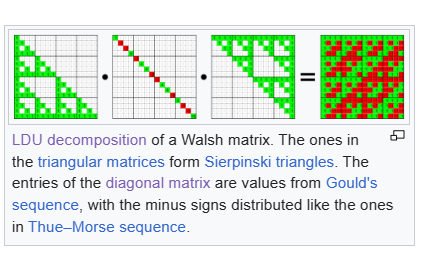
All elements are either –1 or 1.

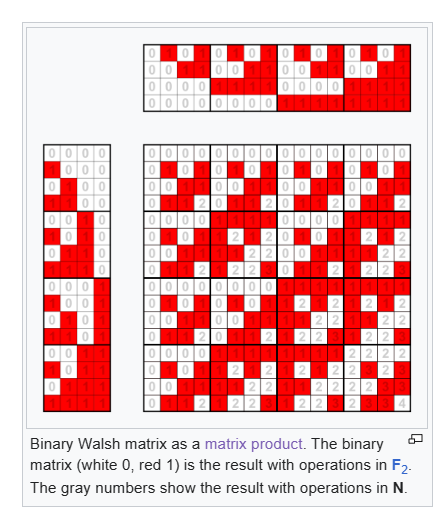
Its rows are orthogonal.

Its columns are orthogonal.



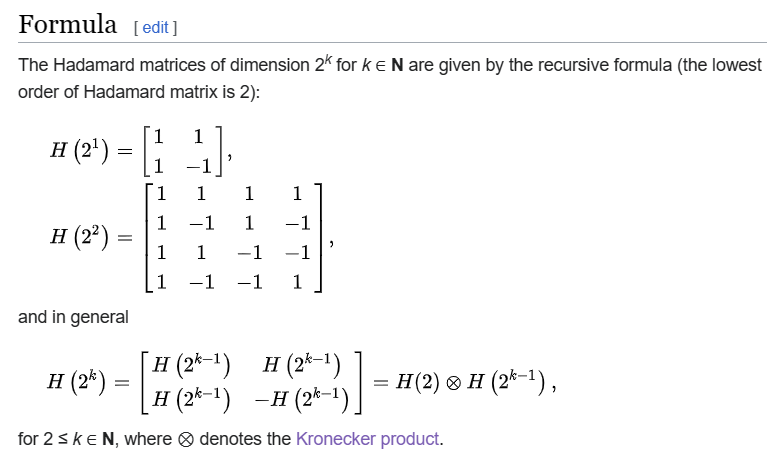






Def

Property



Ref

[Walsh matrix - Wikipedia](https://en.wikipedia.org/wiki/Walsh_matrix)