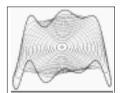


## Motivation

## Differential geometry





**Theorem** (M.Gage, R.S.Hamilton, 1986) The mean curvature flow V = k shrinks any <u>convex</u> planar Jordan curve to a circular rounded point in finite time.

## **Theorem** (R.Grayson, 1987) The mean curvature flow V = k shrinks <u>any</u> planar Jordan curve to a circular rounded point in finite time.

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