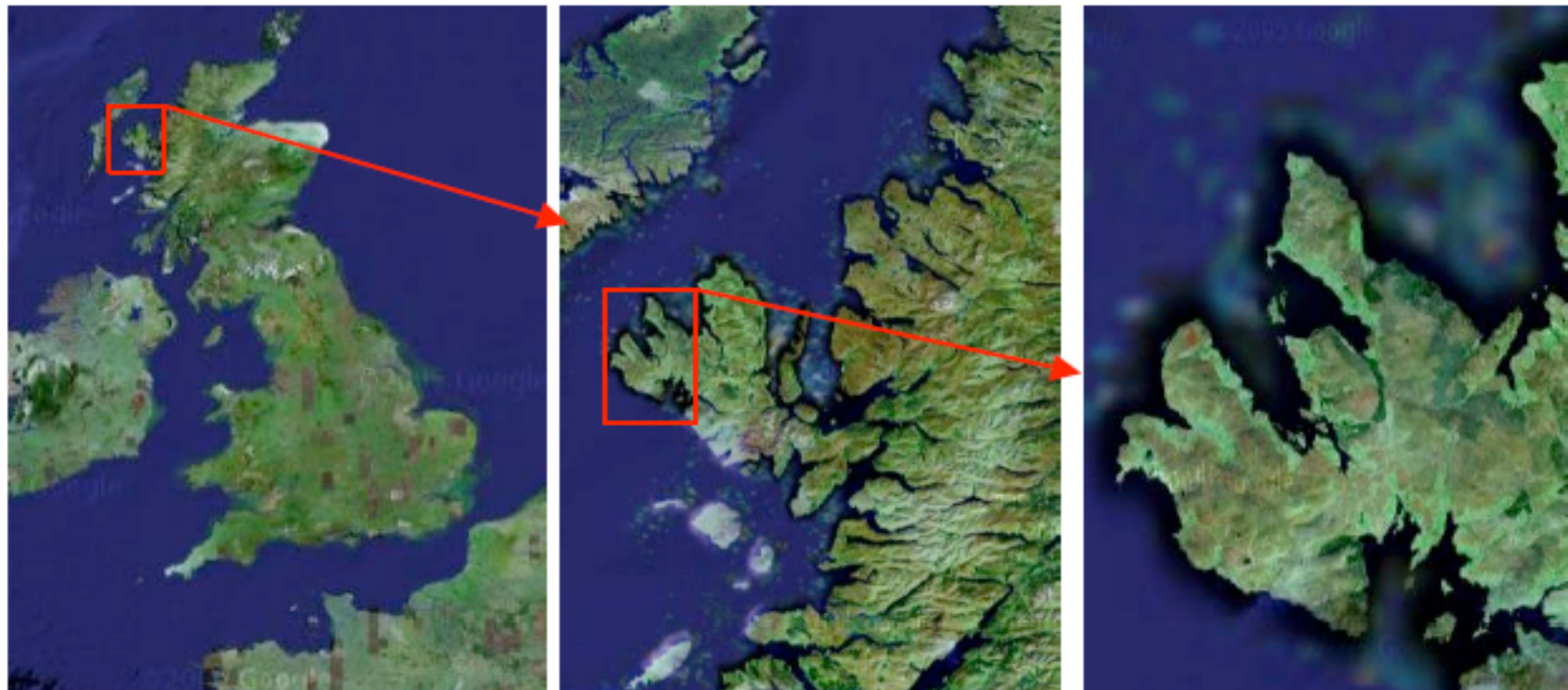


# What is scaling?

## Self-similarity & Self-affinity



Object looks roughly the same on all scales = (Statistical) **self-similarity** (“zoom similarity”)  
(Statistical) self-similarity is observed after affine transformation = **self-affinity** (“warp similarity”)

Degree of invariance across scales = Dependencies/regularities/correlations across scales

aka: “Nested scales”

## How to describe scaling relations: Calculate a “fractional” dimension, e.g. box-counting dimension

