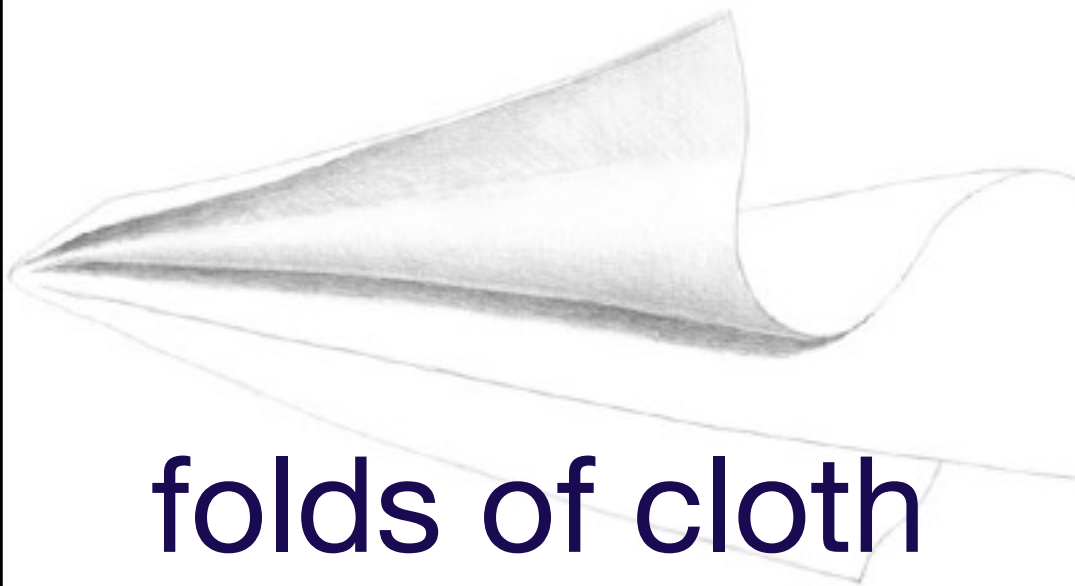






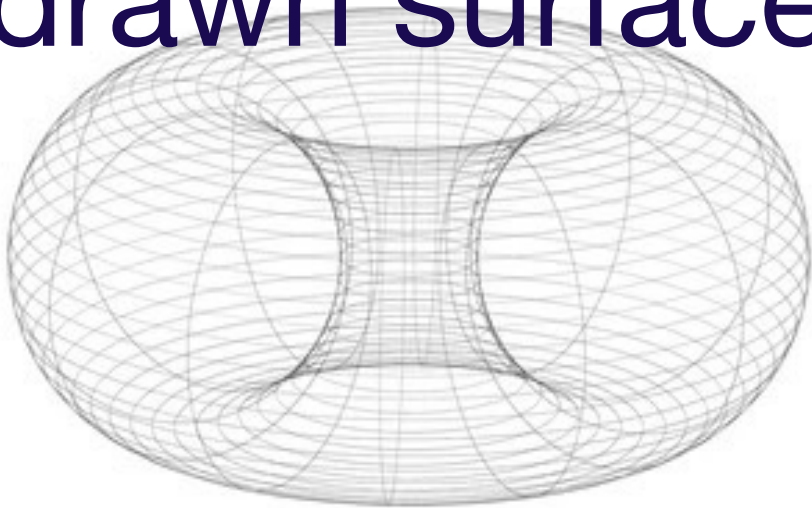


Today: a unifying Geometric explanation



**folds of cloth**

# drawn surfaces



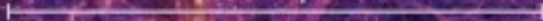


# bird flocks



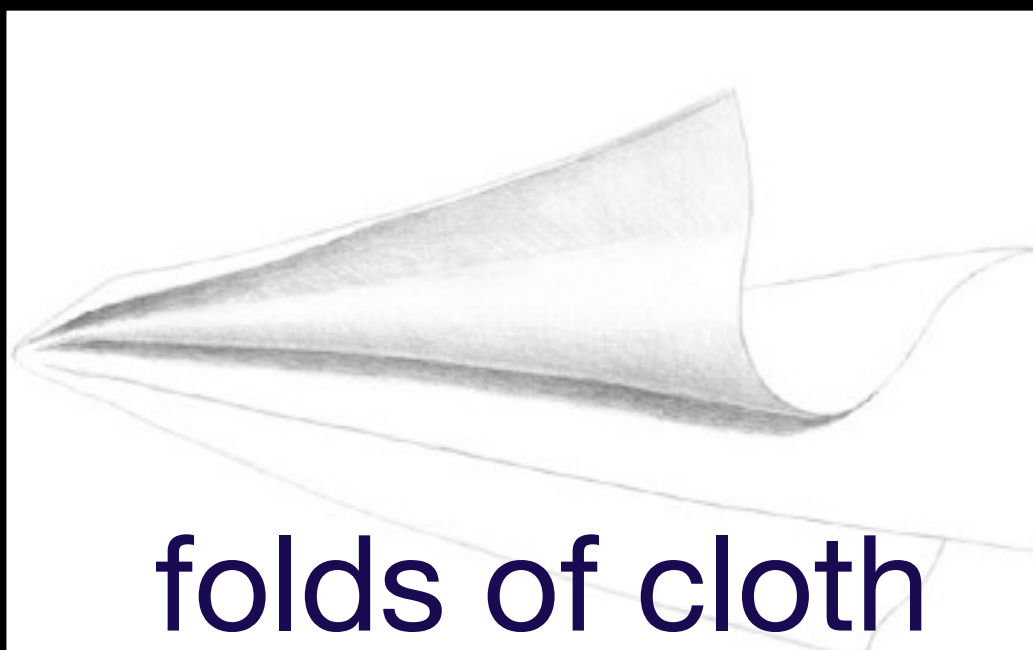
# cosmic web

125 Mpc/h





Caustics appear in many guises...

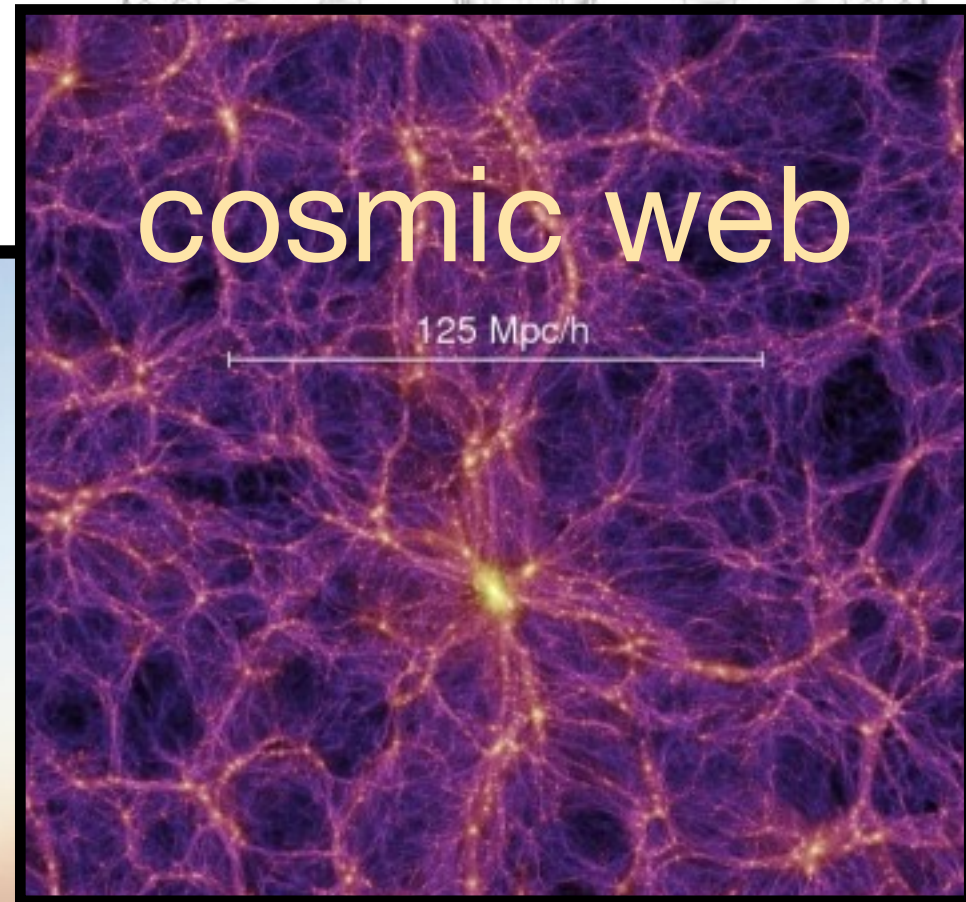


folds of cloth

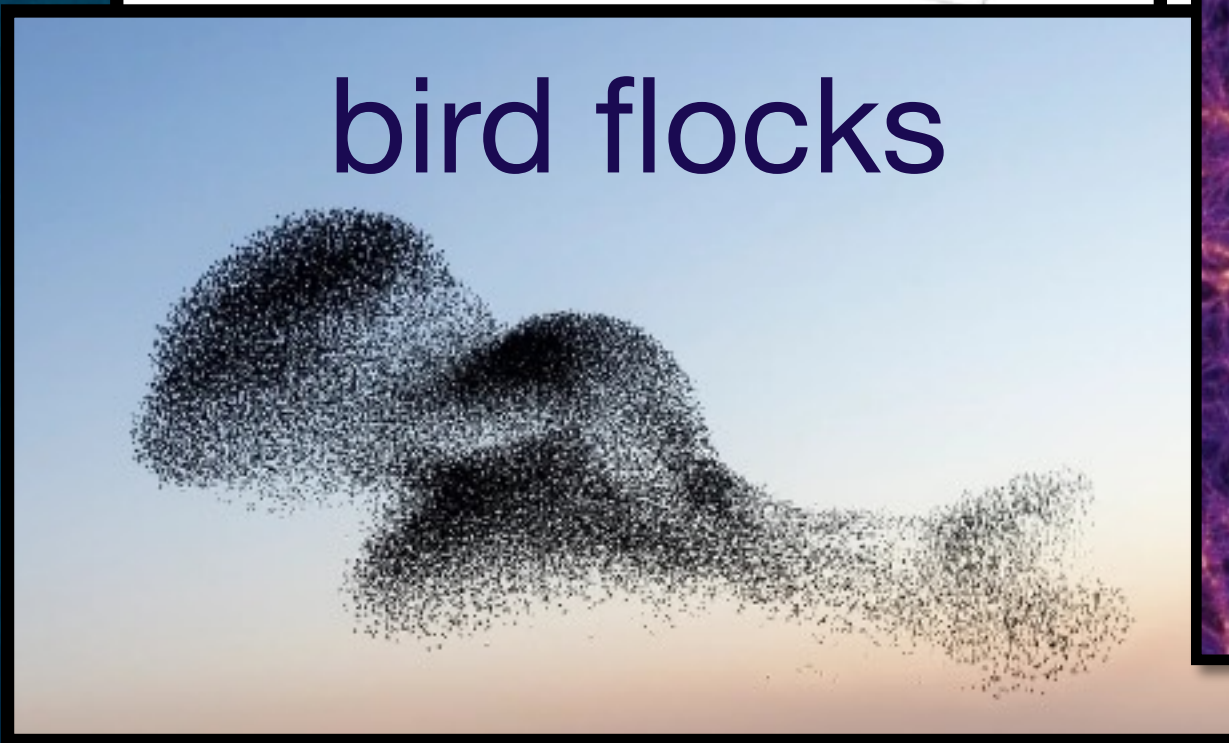
drawn surfaces



cosmic web



bird flocks



Today: a unifying Geometric explanation



# Vignette 1:

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Rainbows are  
folded light

