

• Break point of  $\mathcal{H}$

-  $m_{\mathcal{H}}(k) < 2^k$

- VC dimension of  $\mathcal{H}$  :  $k-1$  (the most points  $\mathcal{H}$  can shatter)

△ No break point  $\Rightarrow m_{\mathcal{H}}(N) = 2^N$

Any break point  $\Rightarrow m_{\mathcal{H}}(N)$  is polynomial in  $N$

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