1 MLE for the Bernoulli/ binomial model

$$X_i \ Ber(\theta) \tag{1}$$

$$p(D|\theta) = \theta^{N_1}(1-\theta)^{N_0} \tag{2}$$

$$ln\left(p(D|\theta)\right) = ln\left(\theta^{N_1}(1-\theta)^{N_0}\right) \tag{3}$$

$$\tag{4}$$