A. Paper discussion

- Poisson likelihood assumes mean = var.
  - this means that the variance increases if the mean increases
    "offers a useful relationship"
  - gives intuition to terms of "under" & "overdispersed"

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B. GLMs

1. Bernoulli distribution, the exponential family, and conjugate priors
   - Beta dist. is conjugate prior for Bernoulli

   - exponential family of dist.
     · have sufficient statistics
     · have conjugate priors (that are also exponential family dist.)

2. Linear classification models
   - generative model: vs. discriminative model ?