1. Why are you making this product?
   1. This product is being made to help ascertain food security issues in Kenya. We are being employed by an insurance agency that pays farmers when crops fail due to drought (side note, this is what I’m actually doing for my real job with crops). When crops do fail, pastoral farmers are increasingly reliant on livestock to provide both food and money. We want to be able to see proportional symbols of livestock totals in each Kenyan region. (<http://www.fao.org/wairdocs/ilri/x5462e/x5462e04.htm>)
2. What do we want to get out of this product?
   1. We want to be able to see what kinds of livestock Kenyans are reliant on. This is particularly useful when crops fail—we are able to see what other income/potential food sources locals have. Essentially we want to see how much livestock each Kenyan county has so that if its crops fail, we will know how much of a “backup” they have in terms of food and/or income.
3. What do our users want to get out of this product?
   1. We want users to be able to see which livestock are where in Kenya. Users will be able to see the spatial distribution of different livestock across Kenyan counties. Ideally, users will be able to pinpoint where the most/least livestock exist. Users will see livestock totals for each Kenyan county. (Additionally, perhaps later we could add population information for each county to normalize the data. It’s not particularly useful to just have the livestock totals.)
4. What are you going to make?
   1. Content requirements:
      1. Quantitative data will be represented as proportional symbols
      2. Data will be encoded as one large circle for each Kenyan county (representing the total livestock in that county)
         1. ?Maybe have different layers for each livestock
      3. Raw totals for each livestock will be available to the user
      4. Data will be displayed on a basemap for locating counties in wider geography
      5. A legend will inform the user of the relative magnitude of the circles
   2. Functional specifications
      1. Map will load data dynamically from the CSV file
      2. One data layer will be created from the data file
         1. ? Maybe have a different layer for each livestock (cattle, sheep, goats, camels, donkeys, pigs, indigenous chickens, commercial chickens, and beehives)
      3. Additional information (raw totals) will be attached to each symbol and available to the user on a click or hover