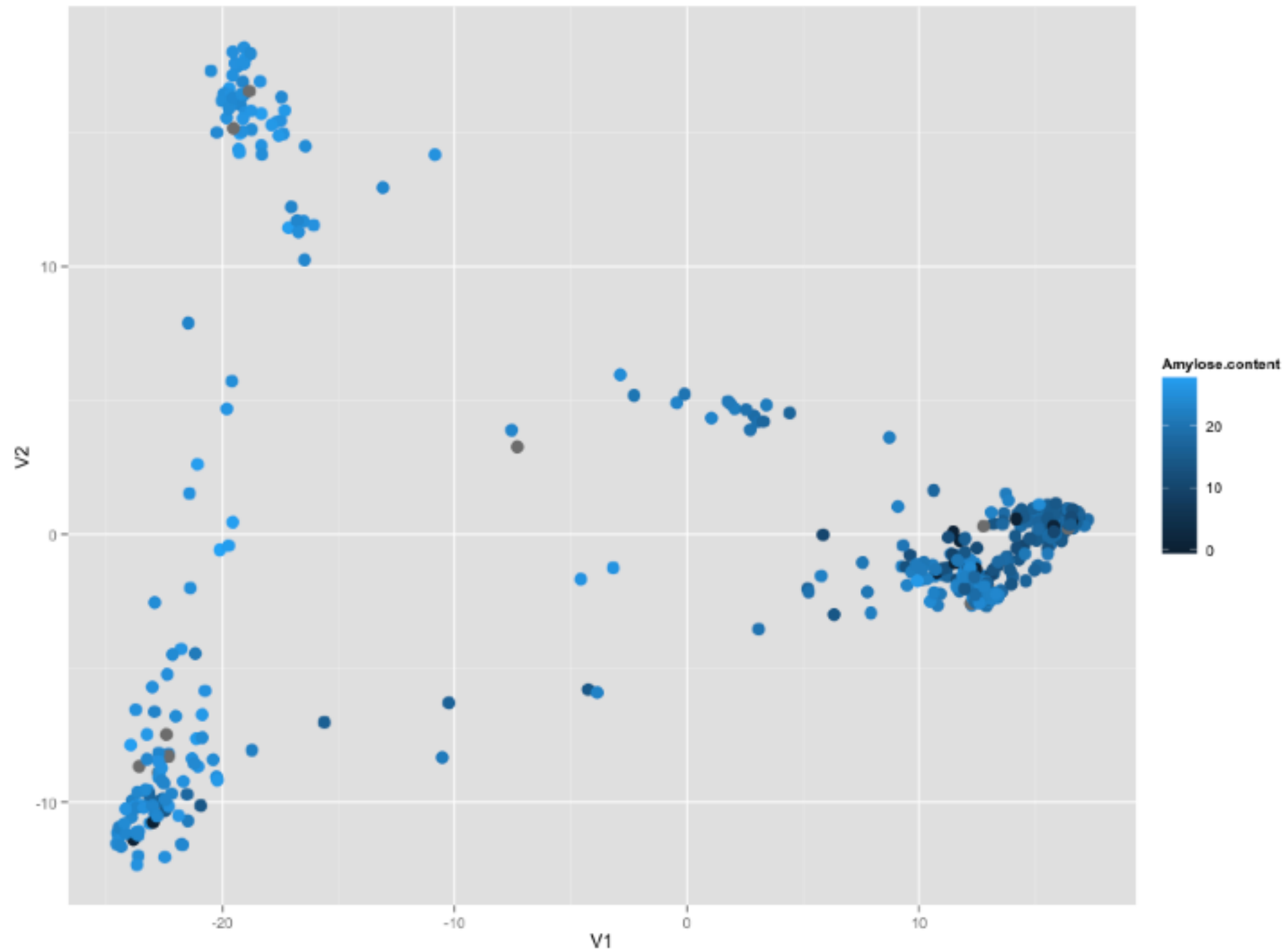


Population Structure can present a problem for GWAS

- What is the potential problem with a GWAS for amylose content?



Population structure corrections

- Analyze within each population
- OR
- include structure information in the statistical model.
 - instead of: $\text{amylose} \sim \text{SNPgenotype}$
 - use: $\text{amylose} \sim \text{SNPgenotype} + \text{population_membership}$
- Often it is best to include BOTH population membership and a kinship matrix (genetic relatedness). We will not use that method today (but checkout GAPIT)