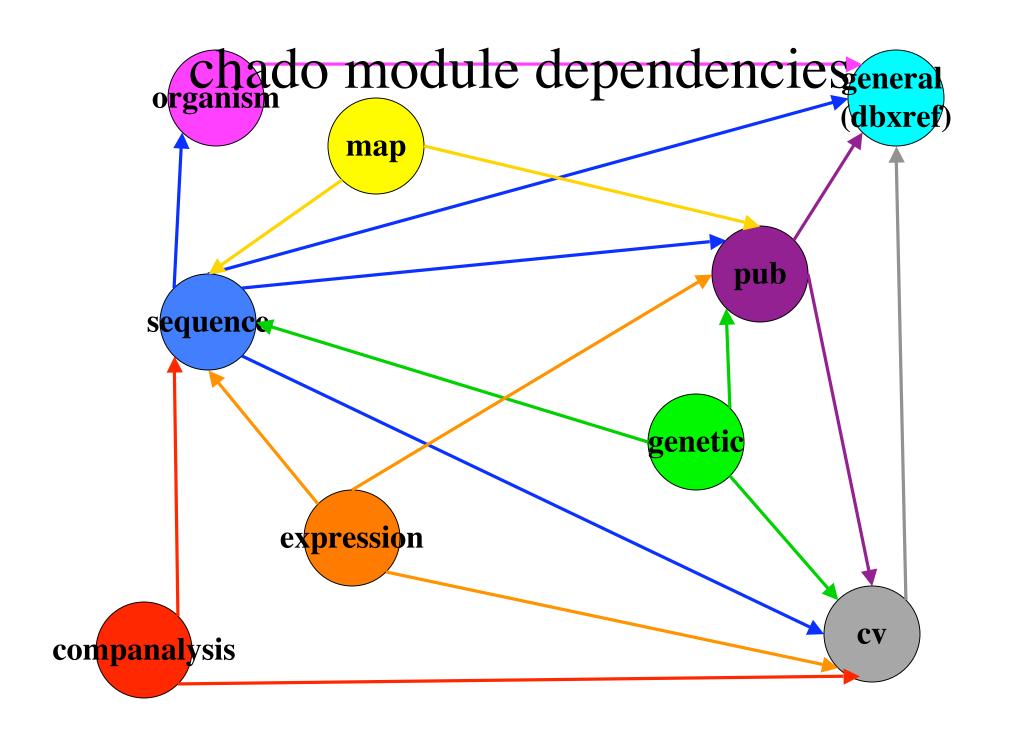
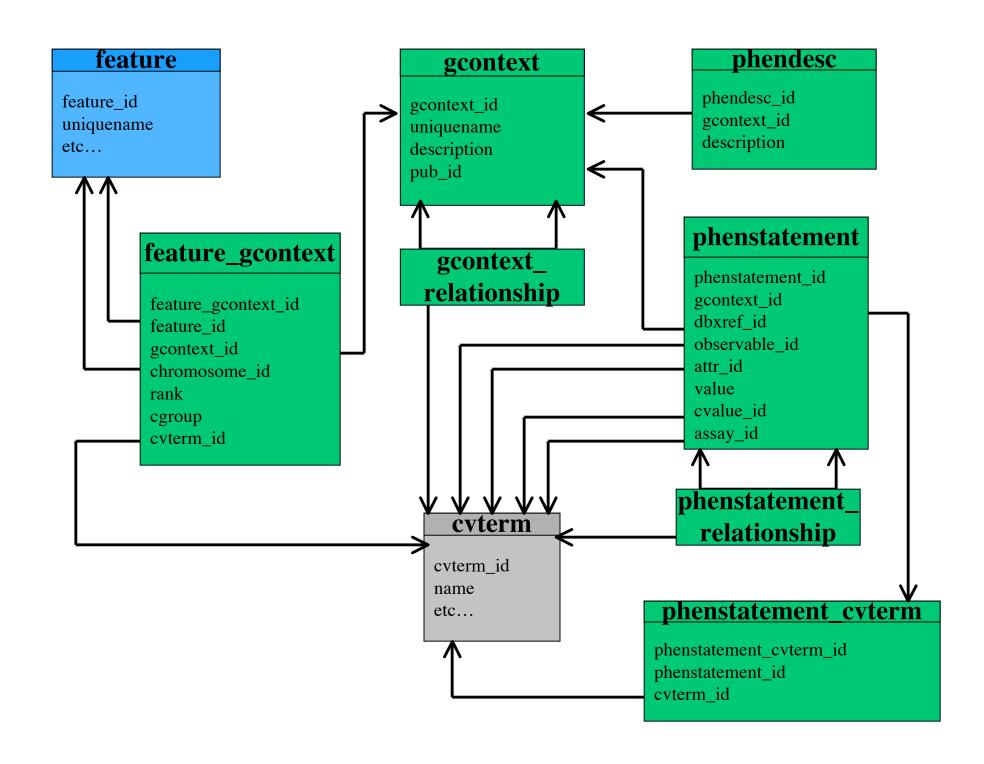
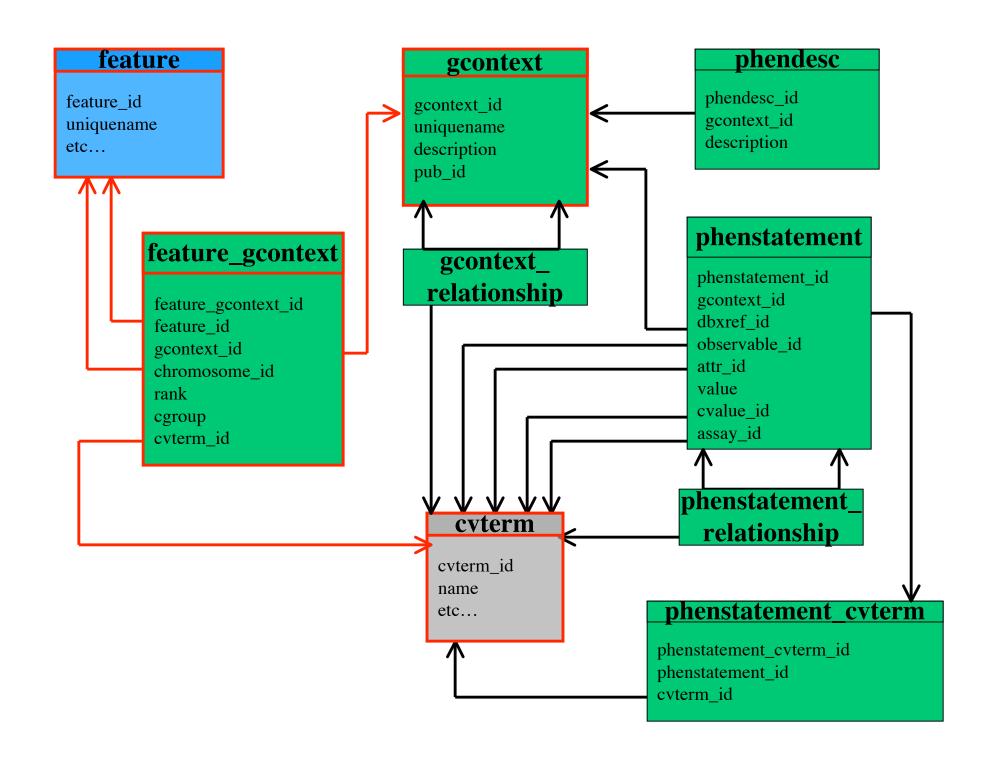
# The chado genetics module

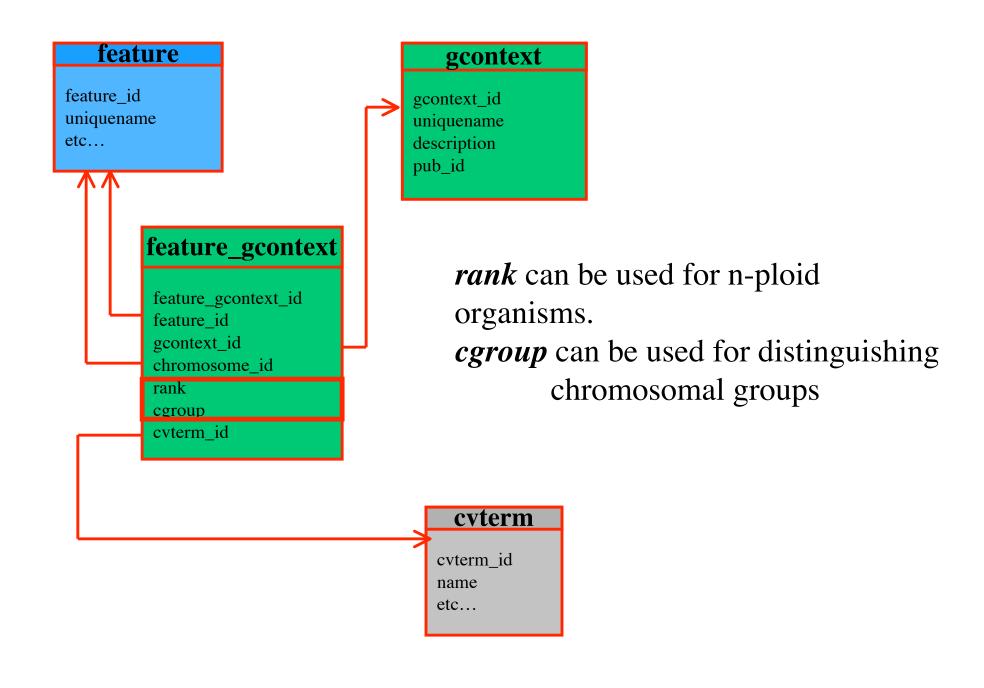
GMOD Meeting 4/26/2004 Cambridge, MA

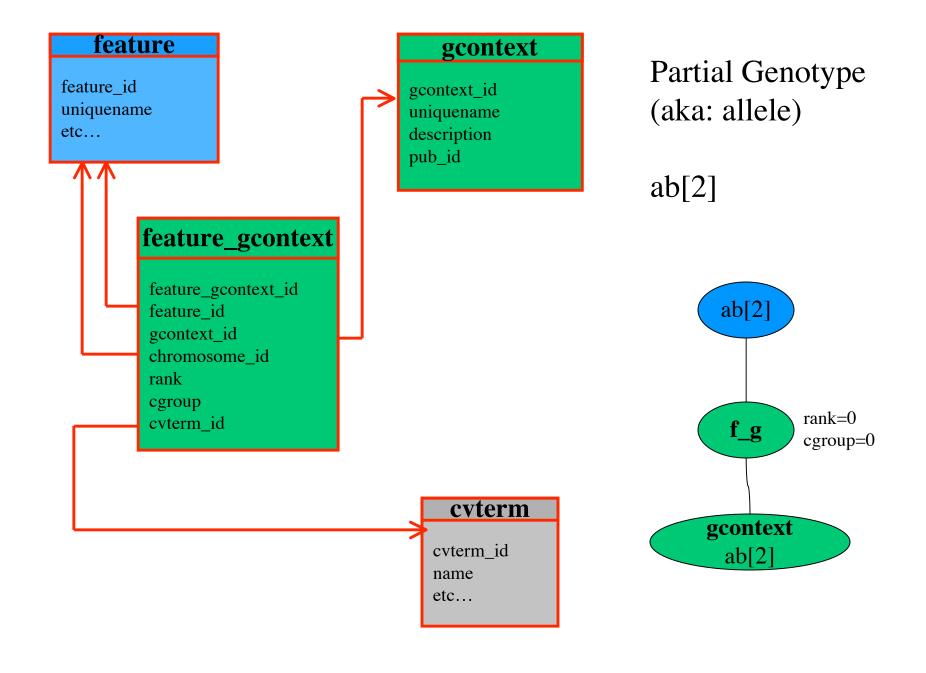
> David Emmert FlyBase - Harvard emmert@morgan.harvard.edu

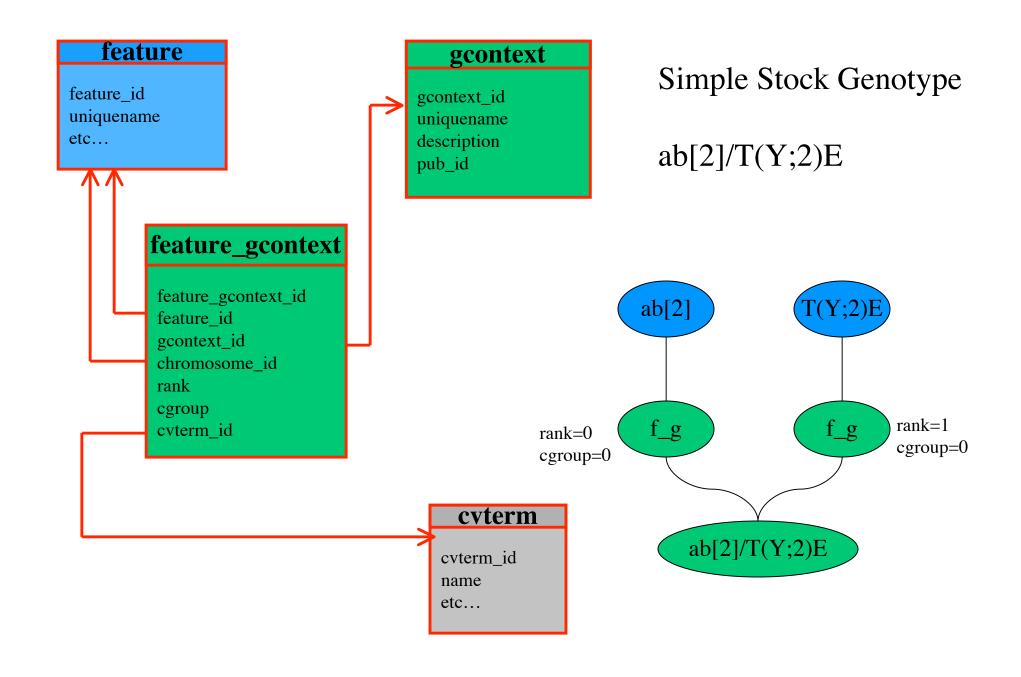


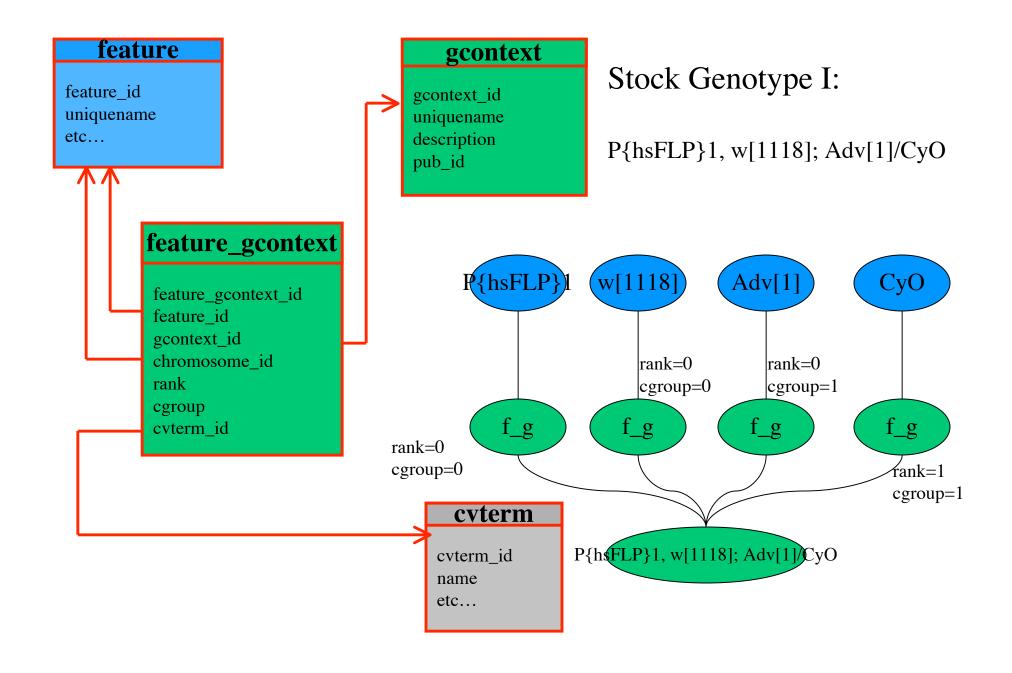


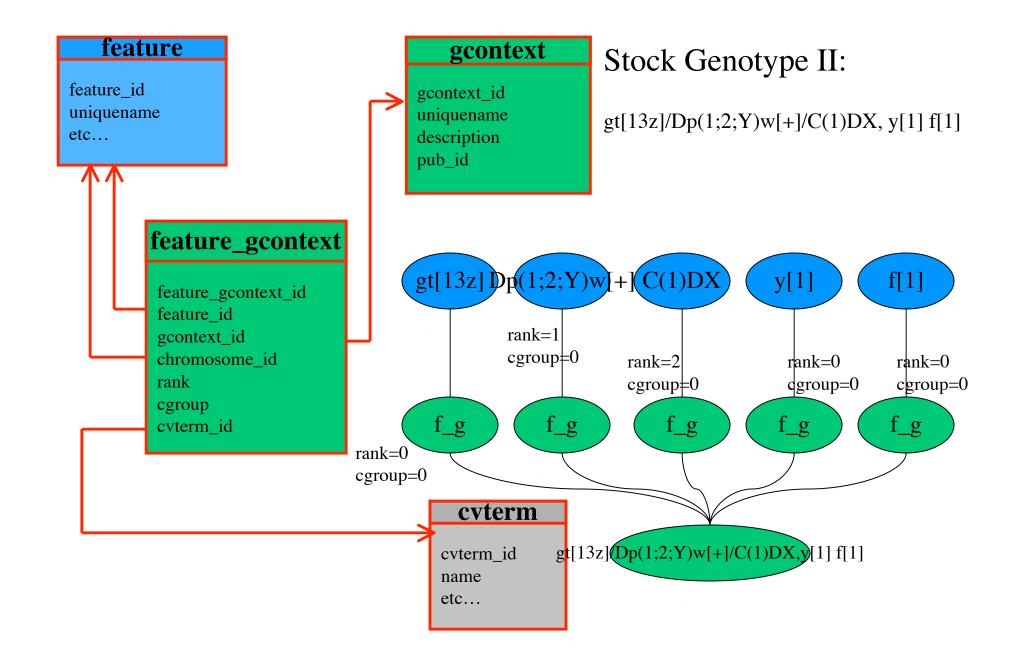


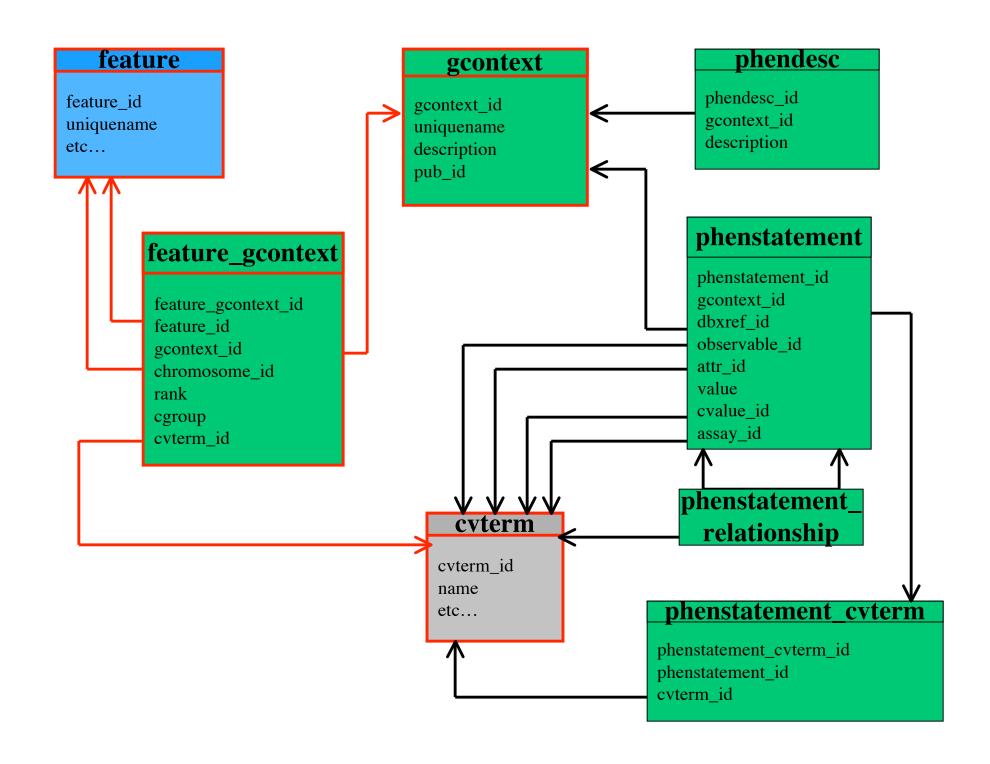


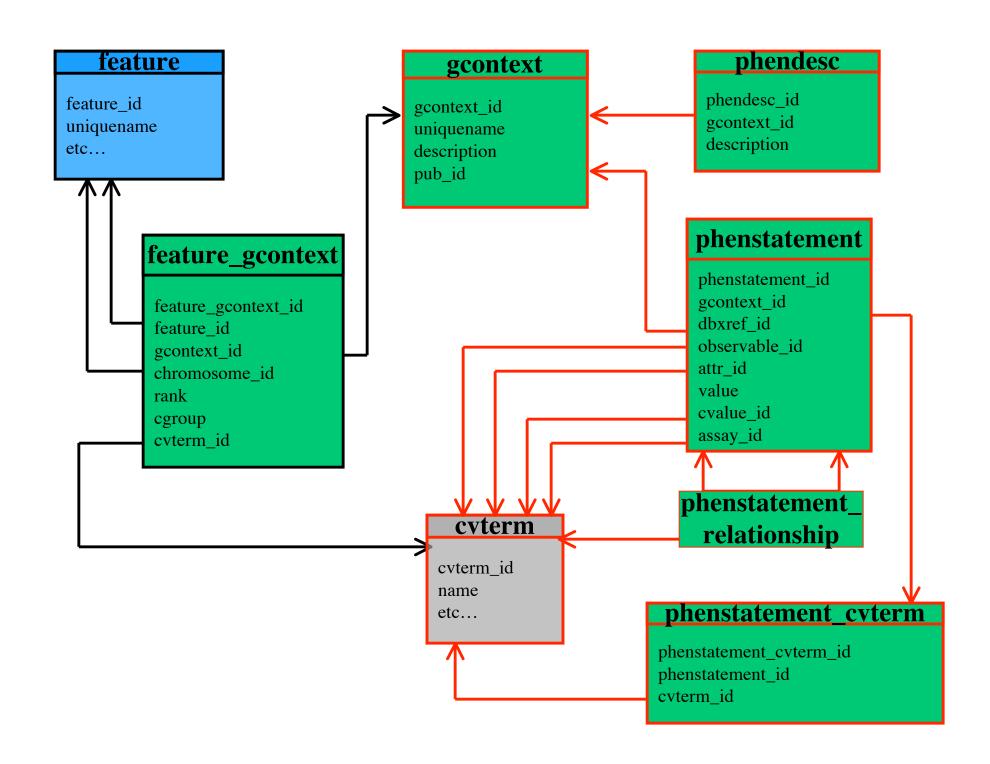


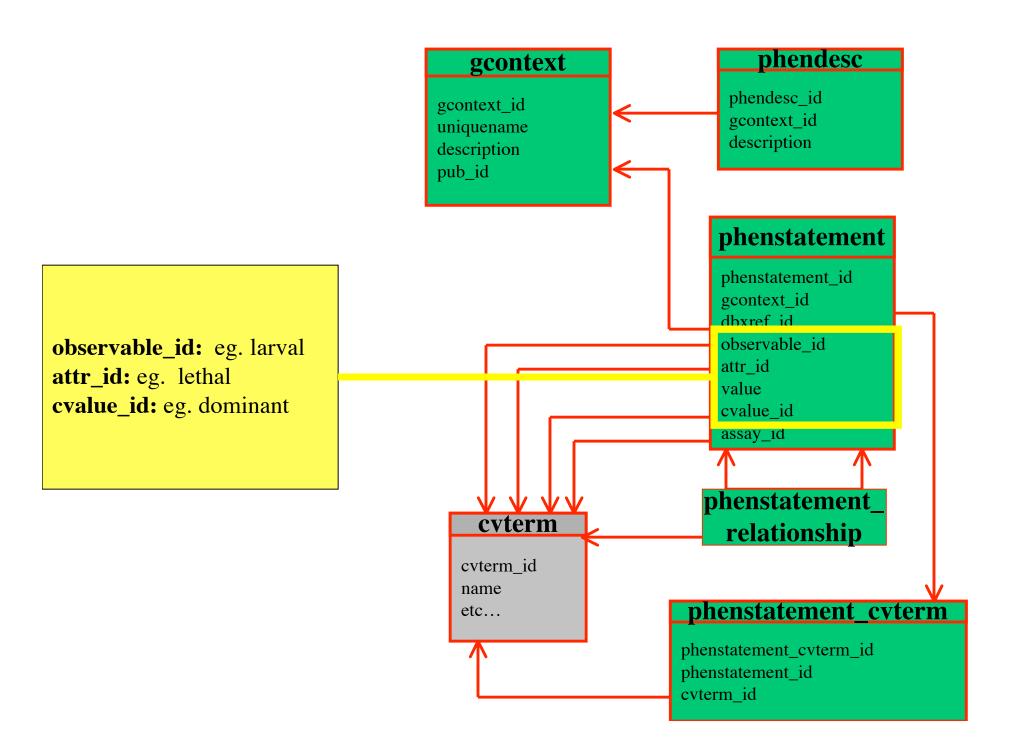


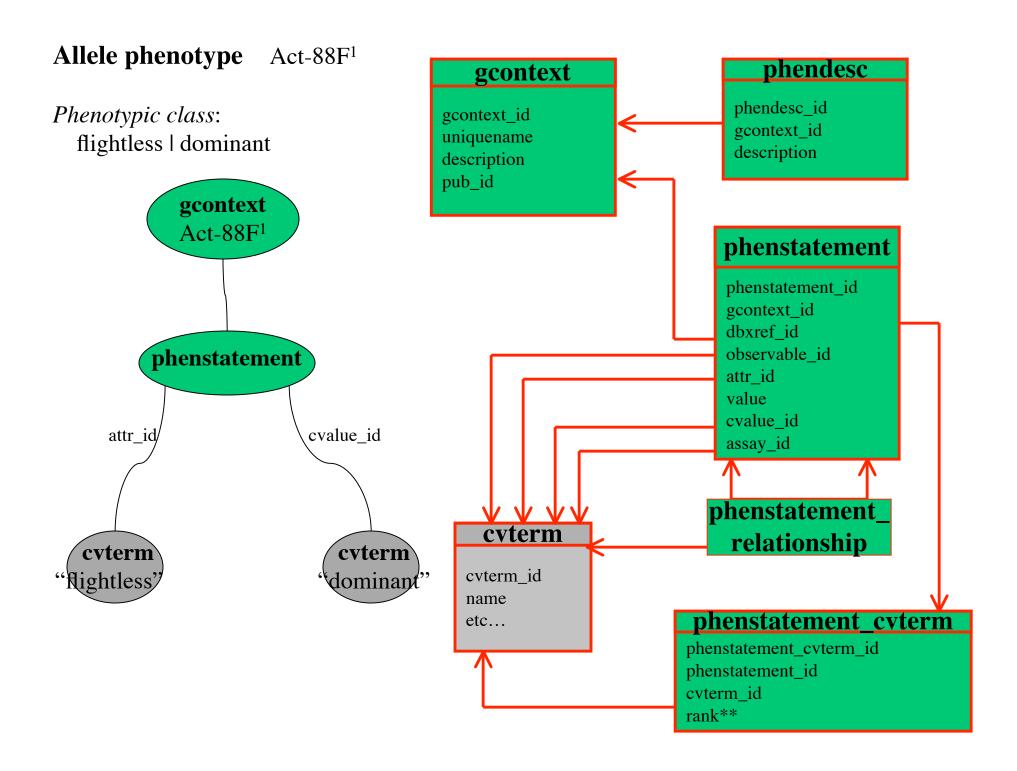


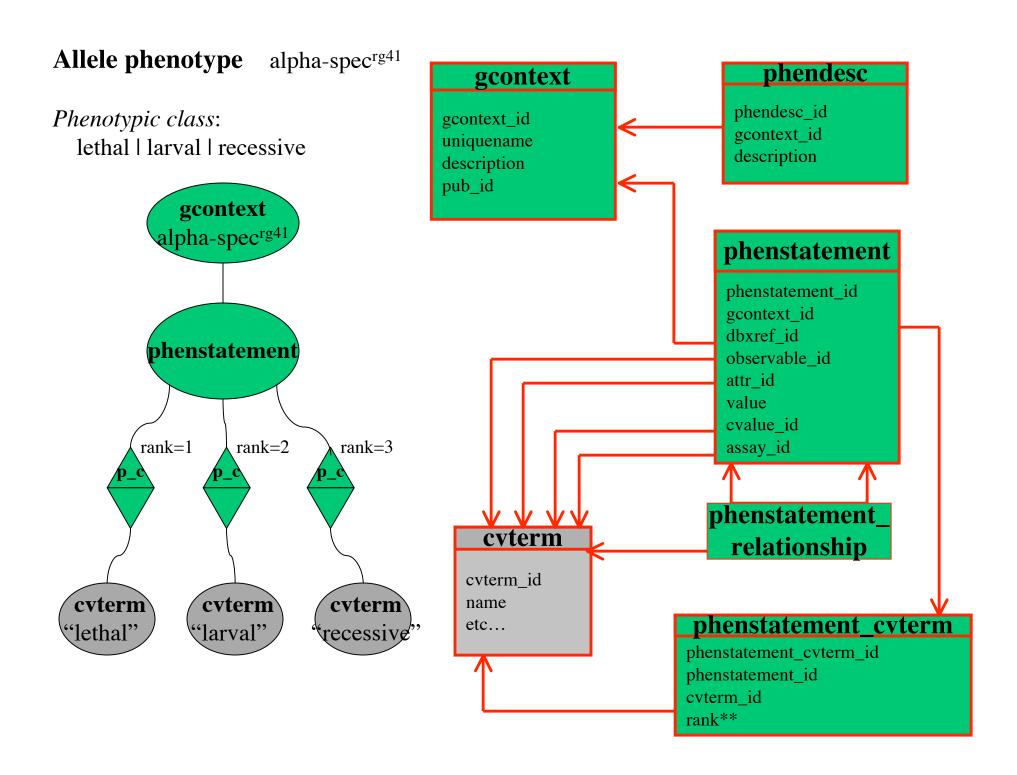


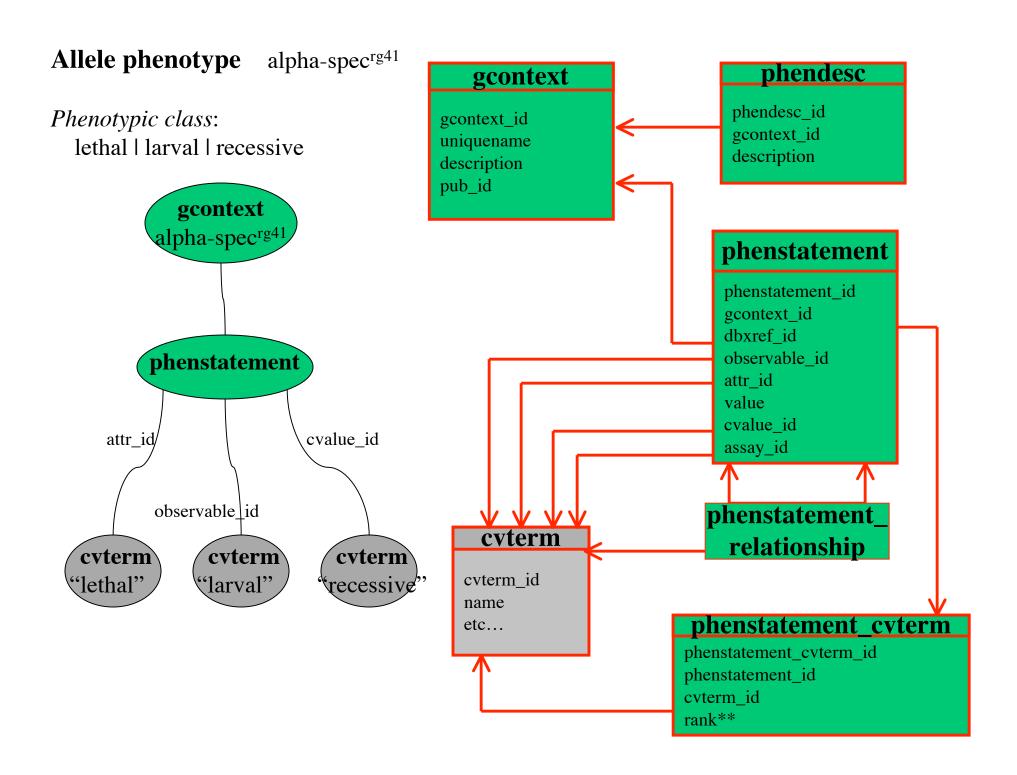


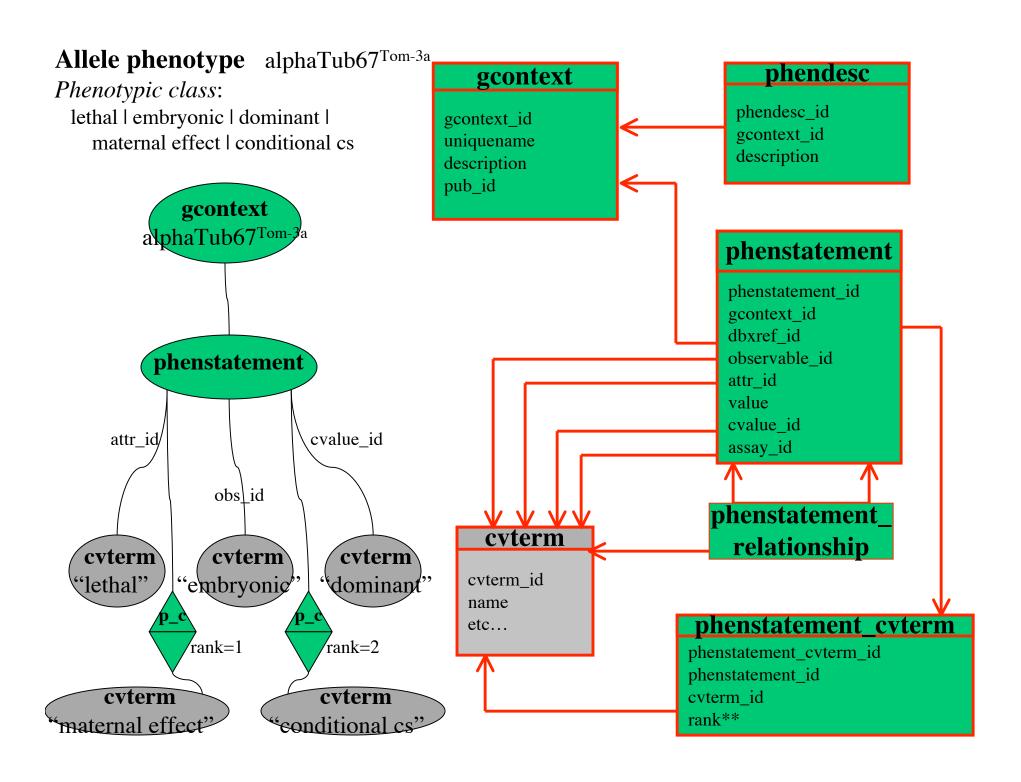


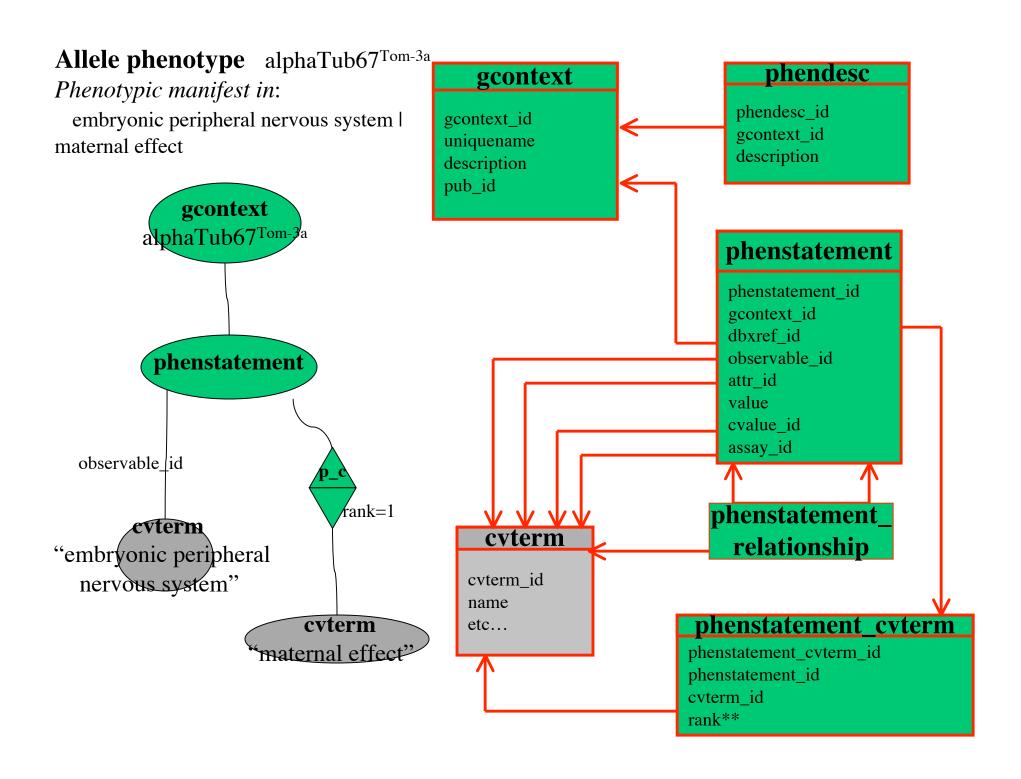








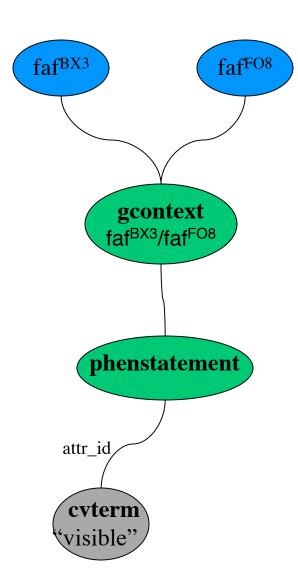


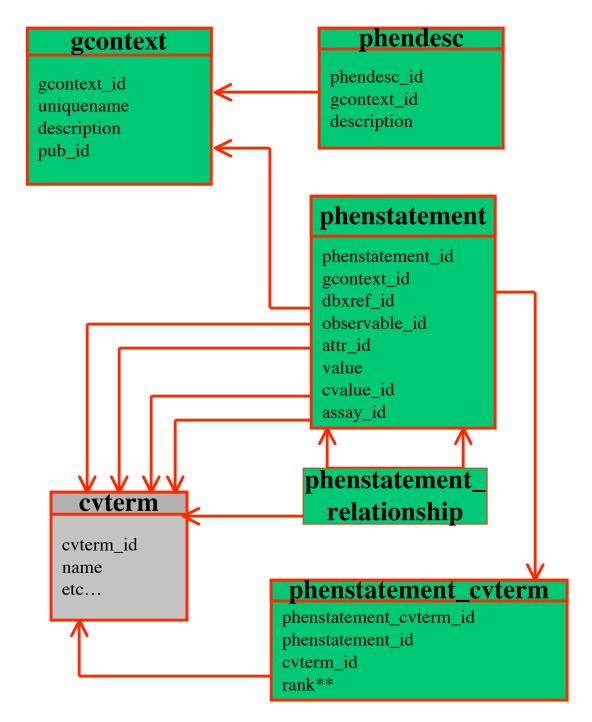


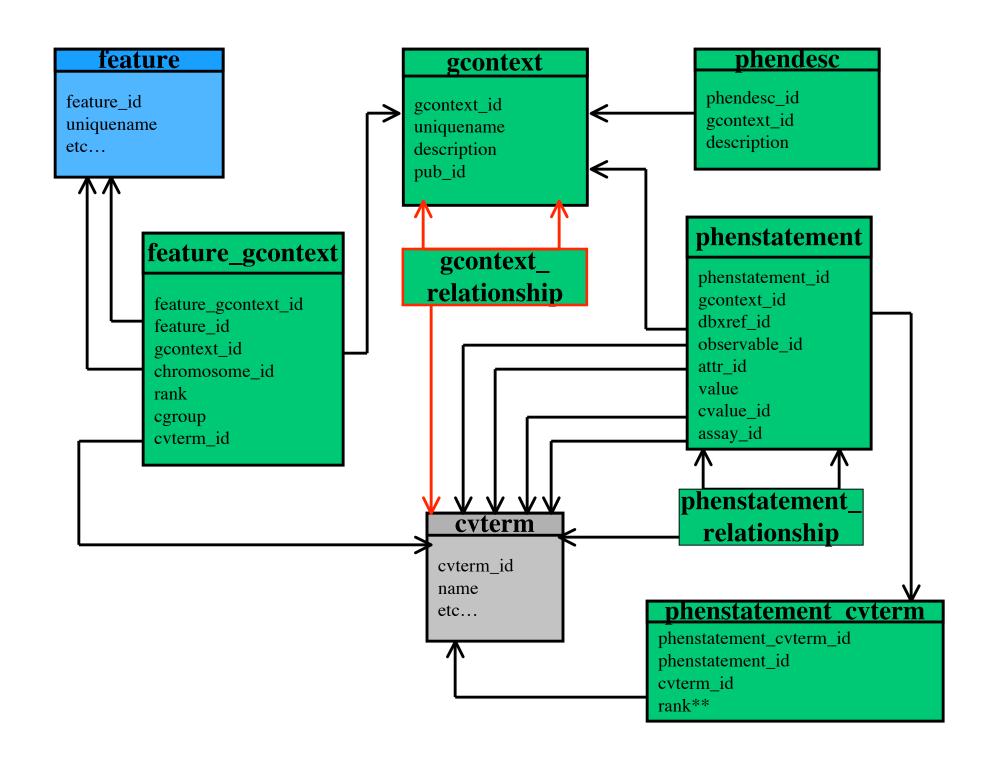
#### **Transheterozygous phenotype:**

faf<sup>BX3</sup>/faf<sup>FO8</sup>

Phenotypic class: visible



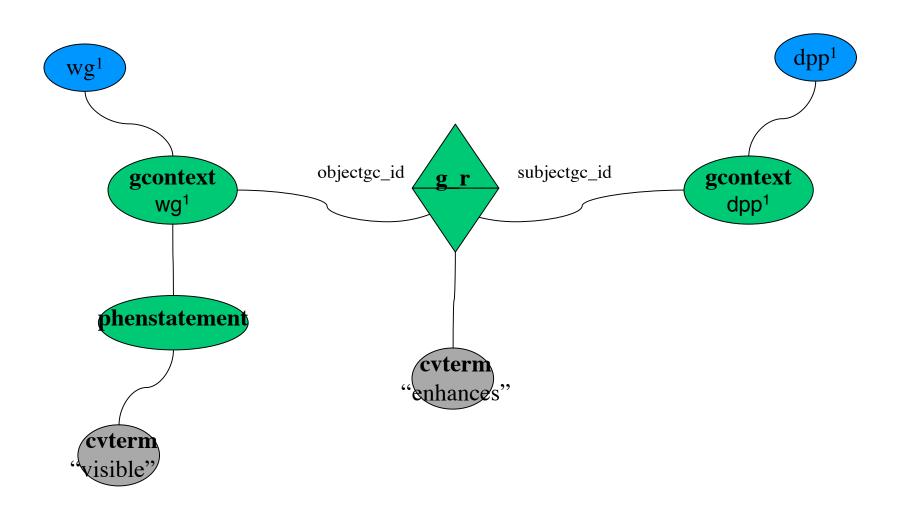




#### **Genetic Interactions**

"wg1 has a wing phenotype that is enhanced by dpp1"

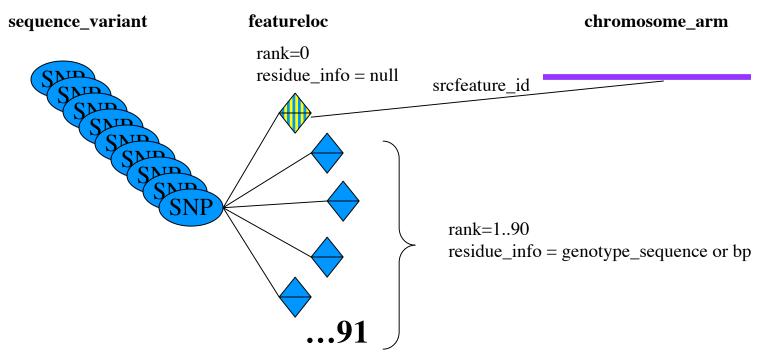
FlyBase Curation for wg1: visible, enhanceable { dpp[1] }



### Representing hapmap genotype data in chado

(Chris Mungall and Mummi Thorisson)

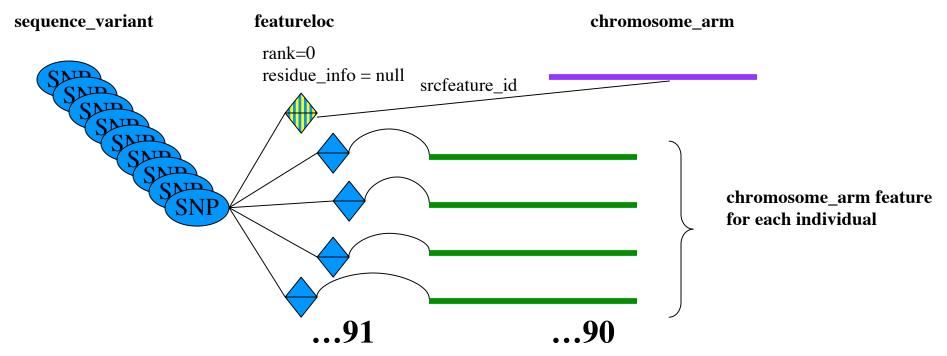
- -Several hundred thousand human SNPs (dbSNP rs#).
- -90x samples (Coriell cell lines).
- -genotypes for each of the 90 samples at a given SNP site.



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# Acknowledgements

## genetic module design team

- Chris Mungall (BDGP Berkeley)
- Pinglei Zhou (FlyBase Harvard)
- Aubrey de Grey (FlyBase Cambridge)
- Bill Gelbart (PI, FlyBase)
- Stan Letovsky (FlyBase Harvard)
- FlyBase Curators at Cambridge and Harvard

#### • GMOD

- Scott, Lincoln, Everybody who's helped / commented