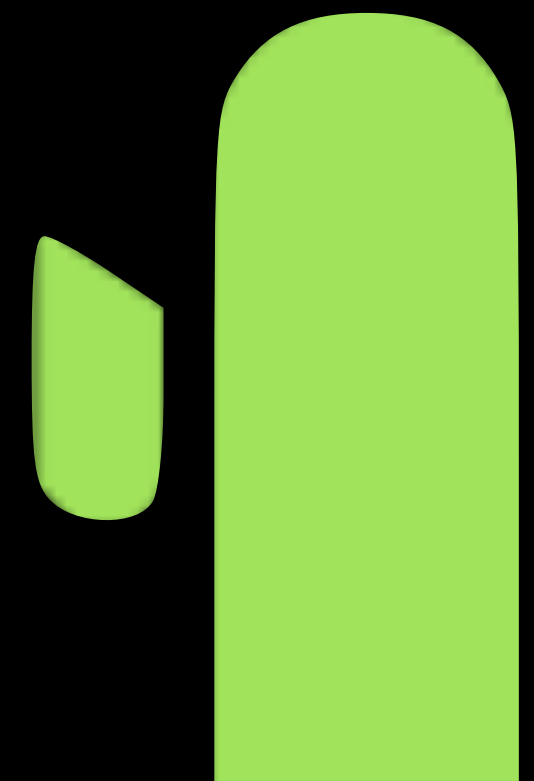


CACTUS - A MODULAR FRAMEWORK

- Funded partly by NASA's Binary Neutron Star Grand Challenge
- Developed at AEI/Cardiff/LSU, initial release in 1997
- Modular framework to **separate technical infrastructure** *(all the communication and grid structure stuff, etc.)* from **science code** *(variable definitions, right hand sides, numerical methods)* to ease development of grid-based partial differential equation solvers
- Researchers need only write "thorns" that implement specific functionality



CACTUS - A MODULAR FRAMEWORK

- Cactus has a core framework called the “flesh”
 - The flesh handles the stuff that is common to all cactus grid simulations
 - A unified description of grid information
 - Initialization routines, simulation loop updating a timestep, and termination routines
 - Communicating with and track of other processes
 - The names and types of data and variables that can exist

