

The wave equation is an evolution eq, its solutions changes (evolves) as time increases.

Components:

- Preliminaries; how is the solution approximated
what data structures are good?
what grid should we use?
(we try finite diff. here and use a simple array and an equidistant grid)

Core routines:

- Approx u_{xx}
- enforce BC
- set Δt
- Approx u_{tt} , march in time.

Other: Out put, error checks for debug.