Thread

Thread[f[args]] "threads" f over any lists that appear in args.

Thread[f[args], n] threads f over lists that appear in the first n args.

Thread[f[args], -n] threads over the last n args.

Thread[f[args], {n, m}] threads over arguments n through m.

Thread[f[args], spec, h] threads f over any objects with head h that appear.

Example: Thread[f[{a,b}, c, {d,e}]] — {f[a, c, d], f[b, c, e]}. ■ Functions with attribute Listable are automatically threaded over lists. ■ All the elements in args whose head is h must be of the same length. ■ Arguments that do not have head h are copied as many times as there are elements in the arguments that do have head h. ■ Thread uses the standard sequence specification. ■ See page 250. ■ See also: Distribute, Map, Inner.