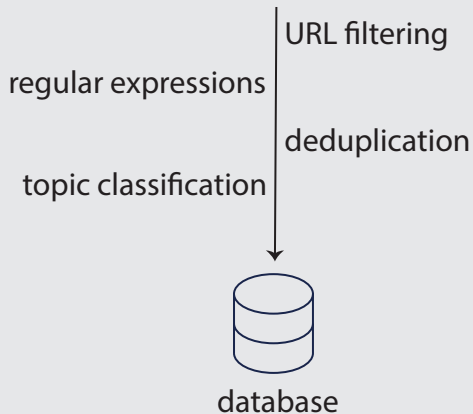


top-down



the Internet



bottom-up



database

