Give me fifteen minutes and I'll change your view of GDB

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Reversible debugging: how did *that* happen?

Other cool things...

tbreak temporary breakpoint

rbreak reg-ex breakpoint

break xxx if yyy conditionally break at xxx if condition yyy holds

commands
list of commands to be executed when a breakpoint is hit

silent special command to suppress output on breakpoint hit

save breakpoints save a list of breakpoints to a script

save history
save history of executed gdb commands

call a function in the inferior

watch -l watchpoint based on address (location)

rwatch read watchpoint

info line foo.c:42 show PC for line

info line * \$pc
show line begin/end for current program counter

thread apply all bt backtrace for every thread

dprintf dynamic printf

python: define custom commands by inheriting from gdb.Command class

python: hook events to invoke python functions using gdb.events.stop.connect

gcc's -g and -O are orthogonal