one-page gdb cheat sheet v1.0

```
1. start gdb
gdb cprogram>
gdb --args  <args>
gdb -x <gdb_file>                                                                                                                                                                                                                                                                                                                                                  <
// directly start debugging (skips step 2) 鸢
gdb --ex=r cprogram>
gdb --pid <pid>
2. gdb started, pre-debug
source <file>
     2.1 breakpoints
break <where> or b <where>
break 42
break foobar.c:42
break doCalc
break doCalc if x>0
info breakpoints [n]
delete [n]
disable [n]
enable [n]
// save breakpoints to file 遂
save breakpoints <file>
     2.1 watchpoints
watch <what>
rwatch <what>
awatch <what>
// also addresses can be watched with * 🖹
watch *<address>
watch $<register>
info watchpoints
delete [n]
disable [n]
enable [n]
```

```
run or r
    3.1 visualization
layout {asm,src,regs}
layout split
(ctrl) + (x)
tui disable
    3.2 printing
print <what>
// strings are usually cutoff after 200 chars 🖹
set print elements 0
info locals
info args
    3.2 stepping
step [n] or s [n]
next[n] or n[n]
stepi [n] or si [n]
nexti[n] or ni[n]
// step out of function 🖹
finish or fin
continue or c
    3.3 backtrace
backtrace [full] or bt [full]
frame n
    3.4 manipulation
set var {<variable>,<address>} = <value>
return <expression>
4. end gdb
quit or q // end gdb
{a,b} choose either a or b
<term> use your brain to replace this term
```

3. while debugging

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