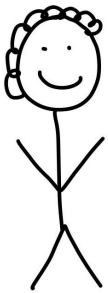# ★ wizard zines ★

programming zines by Julia Evans (@b0rk)

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JULIA EVANS
@b0rk

debugging

our hero: set -x

set -x prints out every line of a script as it executes, with all the variables expanded!

```
#!/bin/bash
set -x   ← I usually
             put set -x
             at the top
```

or bash -x

```
$ bash -x script.sh
```
does the same thing as putting set -x at the top of script.sh

you can stop before every line

```
trap read DEBUG
```
↑
the DEBUG "signal" is triggered before every line of code

a fancy step debugger trick

put this at the start of your script to confirm every line before it runs:

```
trap '(read -p "[$BASH_SOURCE:$LINENO] $BASH_COMMAND")' DEBUG
```

read -p prints a message, press enter to continue

script filename

line number

next command that will run

how to print better error messages

this die function:
```
die() { echo $1 >&2; exit 1; }
```
lets you exit the program and print a message if a command fails, like this:
```
some_command || die "oh no!"
```

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