## Fighting the Good Fight with Taskwarrior and the Kusarigama



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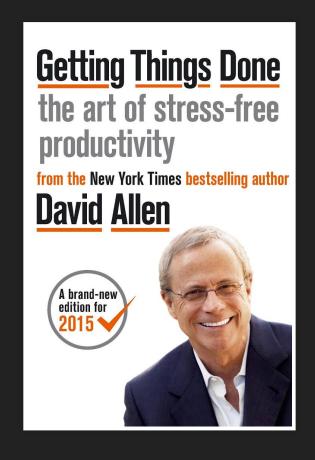
#### **BATTLEPLAN**

- Unto the warpath
- Taskwarrior get more efficient with tasks...
- Customize via the Kusarigama ...then waste it all in yak shaving

#### **MOTIVATION**

My task management skills suck Like, lots.

#### **GETTING THINGS DONE**



#### TWO TAKEAWAYS

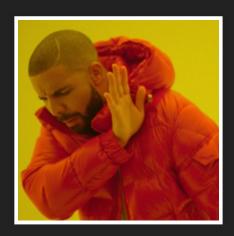
- Dump all your tasks somewhere
- Keep things simple

# CUE IN QUEST FOR PERFECT TOOL



### GUI

- Open browser, wiggle mouse, lots of work
- Always close, never cigar.
- In the cloud == far away

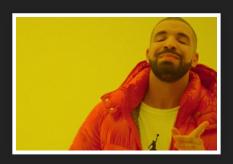


#### Hiveminder...

https://github.com/bestpractical/hiveminder

### CLI

- I live in terminals
- Allow for piping and grepping and UNIXing
- Scriptable
- Autocomplete



#### **ENTER TASKWARRIOR**

- CLI tool task
- Written in C++
- Flexible, extensive set of options
- Customizable

#### **LIKE VI**

start small, learning slope just keep goin' up

# BASICS: CREATE, LIST, AND CLOSE

#### CREATE

\$ task add Write taskwarrior prez for toronto.pm

Created task 1.

#### SEE

#### CLOSE

\$ task done 1

Completed task 1 'Write taskwarrior prez for toronto.pm'. Completed 1 task.

#### **ABANDON**

```
$ task delete 1
```

Delete task 1 'Write taskwarrior prez for toronto.pm'? (yes/no Deleting task 1 'Write taskwarrior prez for toronto.pm'. Deleted 1 task.

#### UNDO THE PAST

The last modification was made 2/19/2018

Prior Values Current Values

description Write taskwarrior Write taskwarrior prez for

toronto.pm

toronto.pm

entry 2018-02-19 2018-02-19

modified 2018-02-19 2018-02-19

status pending deleted

uuid 4057ec52-2a73-4776 4057ec52-2a73-4776-9dbc

-f72f402581a9

\$ task undo

#### **ADDING METADATA**

#### **TAGS**

```
$ task 1 append +talk +toronto
```

Appending to task 1 'Write taskwarrior prez for toronto.pm'. Appended 1 task.

#### **PROJECT**

```
$ task 1 append project:talks
Appending to task 1 'Write taskwarrior prez for toronto.pm'.
Appended 1 task.
Project 'talks' is 0% complete (1 task remaining).
```

#### **PRIORITIES**

```
$ task 1 append priority:H

Appending to task 1 'Write taskwarrior prez for toronto.pm'.
Appended 1 task.
Project 'talks' is 0% complete (1 task remaining).
```

#### **DEADLINES**

```
$ task 1 append due:2018-02-22
Appending to task 1 'Write taskwarrior talk for toronto.pm'.
Appended 1 task.
Project 'talks' is 0% complete (1 task remaining).
```

#### MANY WAYS TO SPECIFY TIMES

due:4d

due:thursday

due:22nd due:eow

due:eom-43h

#### **NOT RIGHT NOW**

```
$ task 1 append wait:21st
Appending to task 1 'Write taskwarrior talk for toronto.pm'.
Appended 1 task.
Project 'talks' is 0% complete (1 task remaining).
```

#### **DEPENDENCIES**

\$ task add "email slides to group" depends:1

Created task 4.

### QUERYING

#### **INFO**

```
$ task 1 info
              Value
Name
ID
Description Write taskwarrior talk for toronto.pm
Status
              Waiting
Project
              talks
Entered
              2018-02-19 11:50:24 (18min)
Waiting until 2018-02-21 00:00:00
Due
              2018-02-22 00:00:00
Last modified 2018-02-19 12:09:03 (5s)
Tags
              talk toronto
              DUE MONTH TAGGED UDA UNBLOCKED WAITING WEEK YEAR
Virtual tags
            PROJECT PRIORITY
              4057ec52-2a73-4776-9dbc-f72f402581a9
UUID
```

#### **URGENCY**

```
project 1 * 1 = 1
waiting 1 * -3 = -3
tags 0.9 * 1 = 0.9
due 0.638 * 1e+0 = 63.8
UDA priority.H 1 * 30 = 30
-----
92.73
```

#### LIST

```
$ task list

ID Age P Project Tags Due Desc Urg
1 2h H talks talk toronto 2d Write... 96.1
4 1m D ema.. -5
2 34s shopping buy t... 0.8
3 2s TW-K relea... 1
```

#### **NEXT**

```
$ task next

ID Age P Project Tags Due Desc Urg
1 2h H talks talk toronto 2d Write... 96.1
2 34s shopping buy t... 0.8
3 2s TW-K relea... 1

3 tasks
```

#### **FANCY REPORTS**

```
task burndown.daily
```

task calendar

task history

task summary

task stats

#### CONTEXT

```
$ task context define work +ii or \( project:foo and due.befor
$ task context work
...
$ task context none
```

#### **CUSTOMIZATIONS**

## . TASKS/PENDING. DATA EASY TO READ

[description:"Write t..." due:"1519275600" ... ]

#### **BUT YOU DON'T NEED TO!**

task export task import

```
$ task export | jq '.[]|.urgency' | histogram.py
# NumSamples = 4; Min = -5.00; Max = 104.21
# Mean = 25.251500; Variance = 2083.744357; SD = 45.648049; Me
# each ■ represents a count of 1
-5.0000 - 5.9206 [ 3]: ■■
5.9206 - 16.8412 [ 0]:
16.8412 - 27.7618 [ 0]:
27.7618 - 38.6824 [ 0]:
38.6824 - 49.6030 [ 0]:
49.6030 - 60.5236 [ 0]:
60.5236 - 71.4442 [ 0]:
71.4442 - 82.3648 [ 0]:
82.3648 - 93.2854 [ 0]:
93.2854 - 104.2060 [ 1]:
```

# HOOKS

#### Just like git

- ~/.task/hooks/on-launch\*
- ~/.task/hooks/on-add\*
- ~/.task/hooks/on-modify\*
- ~/.task/hooks/on-exit\*

# TASKWARRIOR::KUSARIGAMA

### 2 TYPES OF PLUGINS

- Behavior tweaker
- New task <command>

# ONLY ONE ACTIVE TASK

```
task start 1
task start 2
task stop 1
```

```
package Taskwarrior::Kusarigama::Plugin::SingleActive;
use Moo;
extends 'Taskwarrior::Kusarigama::Hook';
with 'Taskwarrior::Kusarigama::Hook::OnLaunch';
sub on_launch($self) {
    $self->run_task->stop(['+ACTIVE', '+PENDING'])
    if $self->command eq 'start';
};
```

### PROGRESS

```
package Taskwarrior::Kusarigama::Plugin::Command::Progress;
use Moo;
extends 'Taskwarrior::Kusarigama::Plugin';
with qw/
    Taskwarrior::Kusarigama::Hook::OnCommand
    Taskwarrior::Kusarigama::Hook::OnAdd
    Taskwarrior::Kusarigama::Hook::OnModify
/;
```

```
has custom_uda => (
    is => 'ro',
    default => sub{ +{
        goal => 'quantifiable goal',
        progress => "where we're at",
    }},
);
```

```
sub on_add { goto &on_modify; }
sub on_modify ( $self, $task ) {
   my $goal = $task->{goal} or return;

   my $progress = $task->{progress};

   $task->{description} =~ s#\(\\d+\\/\d+\\)(.*?)$#$1#;
   $task->{description} .= sprintf ' (%d/%d)', $progress, $go
   return $task;
}
```

```
for my $task ( @tasks ) {
   my $progress = $1?$2:($2||1) + $task->{progress};
   my $goal = $task->{goal};

my $ratio = $progress / $goal;

print $task->{id}, ' ',
   '=' x ( 20 * $ratio ),
   '-' x ( 20 * ( 1 - $ratio ) ),
   ' ', $progress, '/', $goal, "\n";
```

```
$task->{progress} = $progress;

$task->add_annotation( $note ) if $note;

$task->{status} = 'completed'
    if $progress >= $task->{goal}

$task->save;
}
};
```

# DEPENDENCIES

```
$ task add do this
Created task 14
$ task add do that depends:14
Created task 15
$ task add do the prerequisite thing
Created task 16
$ task 15 append depends:16
```

- \$ task add do this
- \$ task and-after do that
- \$ task but-before do the prerequisite thing

```
$ task gtd and-after write review
```

```
package Taskwarrior::Kusarigama::Plugin::Command::AndAfter;
use Moo;
extends 'Taskwarrior::Kusarigama::Plugin';
        'Taskwarrior::Kusarigama::Hook::OnCommand';
with
sub on_command($self) {
  my $dep = $self->pre_command_args ||
    ( $self->tw->run_task->export('+LATEST') )[0]->{uuid};
  $self->tw->run_task->add(
    $self->post_command_args, { depends => $dep }
  say "task added";
```

\$ task gtd but-before go buy gtd book

```
package Taskwarrior::Kusarigama::Plugin::Command::ButBefore;
sub on_command {
 my $self = shift;
 my $prev = $self->pre_command_args
    || ($self->tw->run_task->export( '+LATEST' ))[0]->{uuid};
 $self->tw->run task->add( $self->post command args );
 my( $new_task ) = $self->tw->run_task->export( '+LATEST' );
  say "added new task ", $new_task->{id};
 $self->tw->run_task->append( $prev, { depends => $new_task->
  say "dependencies added";
```

#### LEARN MORE

- Paul Fenwick at a confinear you
- Brian Wisti's blog