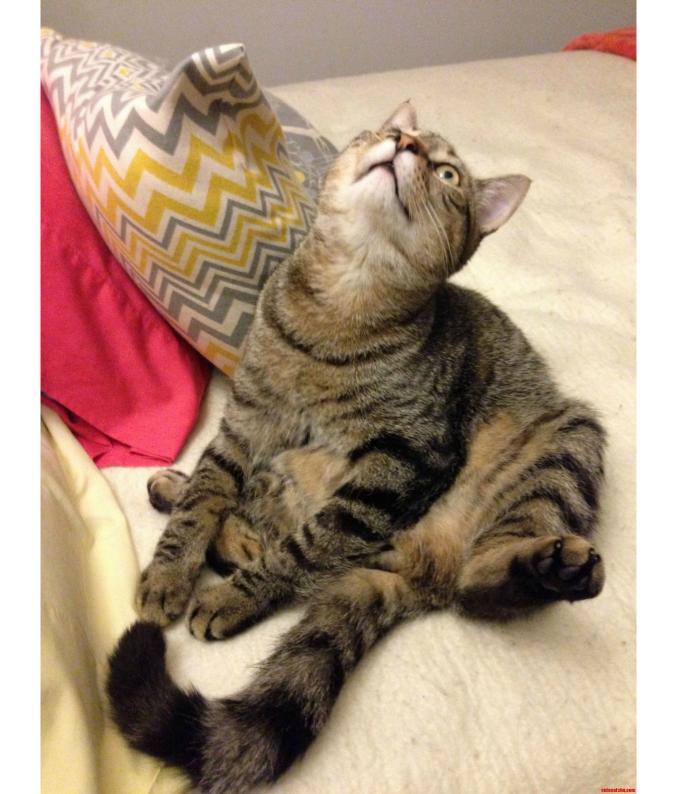
Manage All Your Tasks With TaskWarrior

Paul '@pjf' Fenwick

My story...

Iprocrastinate



Terrible memory

Task management *essential*

Tried dozens of systems

"Simple and Easy" →

Missing features

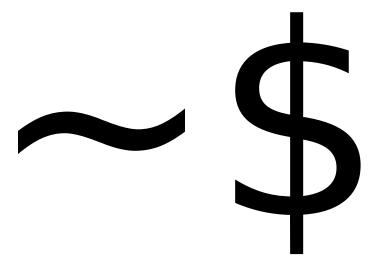
Proprietary



I can't add features

I can hack things in



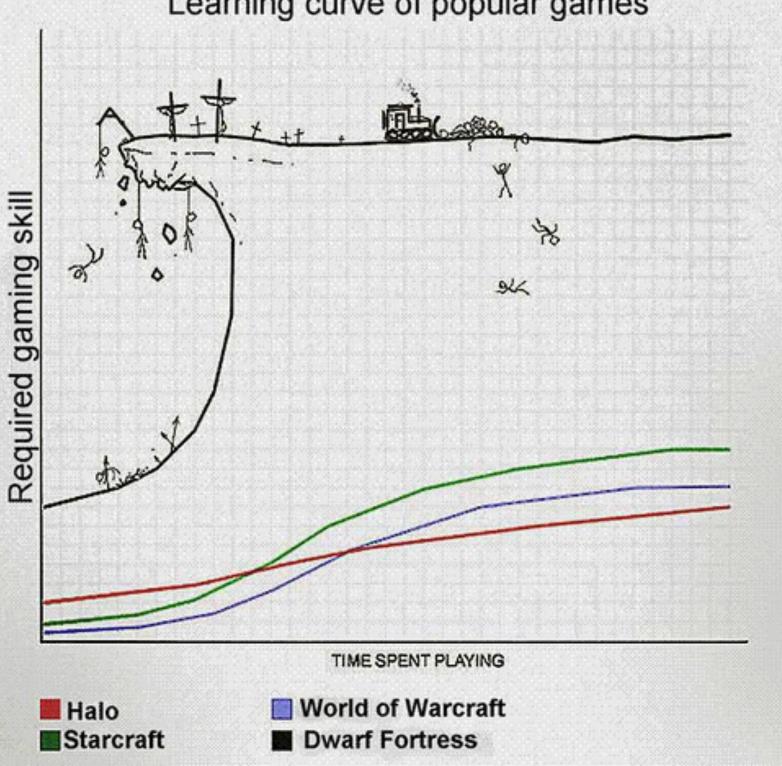




Shell-based Text-oriented

Task Management System

Learning curve of popular games



Most task systems do not work for most people

TaskWarrior is workflow agnostic

TaskWarrior may not be for you



Tour of features I use the most

TASKWARRIOR 2.6.0

Command Reference

Docs

Q&A

Help

task help

task list

Support

#taskwarrior on freenode

Basic Usage

task add Pay the bills

task add Call the bank

Escape shell characters:

task add John\'s birthday

task add "John's birthday"

task rc.debug.parser=<level>
task rc.debug.hooks=<level>

Copyright (C) 2006 - 2016

Quote shell characters:

Escape These:

task rc.debug=1

task diagnostics

task rc.hooks-0|1 ...

Debugging

Runtime Override rc.<variable>=<value>

Config File Override

Parser Override task <parsed> -- <unparsed>

Syntax:

Configuration

task show [<var>]
task config <var> <value>
task config <var>
task config <var>
''

UDA Configuration

uda.NAME.type=TYPE uda.NAME.label=LABEL uda.NAME.value=VAL,VAL,...

TYPE:

string, date, duration, numeric

Sync Configuration

taskd.server taskd.ca or taskd.trust taskd.certificate taskd.key taskd.credentials taskd.ciphers

Date Formats

With Time rc.dateformat=YMD HNS

Just Date

Just Date rc.dateformat=YMD

Annotations

Add: task <id> annotate foo Remove: task <id> denotate foo

Annotation en-passant

task <id> done Finished it task <id> delete Not needed

Synchronize task sync init (first time)

task sync

Import/Export
task [<filter>] export
task import <file>

Used for writing extensions, wrappers.

Filter

task

Expression of terms with values, operators.

<override>

<term> [<op> <term> ...]

Terms

<attr>:<value>
<attr>:<modifier>:<value>
<DOM>
<ID range>
<UUID list>

ID Ranges - use ID or UUID

task 1 info task 1-10 info task 1,3,5,6-10,13 info task 1 2 3 info

Searching for text

task desc.contains:foo task /foo/ task description ~ foo

Operators

and conjunction disjunction or xor exclusive or add subtract multiply divide modulus exponent regex match regex non-match less than less than or equal <= exact equal !-exact inequal partial equal partial inequal greater or equal greater than hastag has tag notag hasn't tag precedence

Attribute Modifiers

task urgency.under:4 list task proj.endswith:work list

before (under, below)
after (over, above)
none
any
is (equals)
isn't (not)
has (contains)
hasnt
startswith (left)
endswith (right)
word
nonword

Report Commands

<command>

(Run 'task reports') active

<filter>

all blocked blocking burndown.daily burndown, monthly burndown.weekly completed ghistory.annual ghistory.monthly history.annual history.monthly information list long 18 minimal newest next oldest overdue projects ready recurring summary

Write Commands

tags timesheet

unblocked

waiting

add
annotate, denotate
append
config
delete
done
duplicate
edit
import
log
modify
prepend
start, stop
synchronize
undo

Read Commands

<report>
info
count
export

Misc Read Commands

calendar
colors
columns
count
diagnostics
execute
export
help
ids, uuids
logo
report
show
stats
udas
version

Modifications

et

<attribute>:<value>

<modifications>

Remove <attribute>:

.

Substitute /from/to/g /from/to/

Add Dependency depends:<id>[,...]

Remove Dependency depends:-<id>[,...]

+foo

Untag -foo

Date Symbols

yesterday today now tomorrow someday easter tuesday 23rd

Period Symbols

hourly 1hr
daily 5days
weekly 2wks
monthly 3months
quarterly 1q
annual 2years

Document Object Model (DOM)

<id|uuid>.<attribute>
rc.<name>
system.<version|os>

Examples

task _get 123.description task add ... due:123.due task _get rc.dateformat task _get 123.uuid Abbreviations

task project:Home list task projec:Home lis task pro:Home li

Task Attributes

ID unmodifiable
UUID unmodifiable
urgency unmodifiable

description project priority tags status

depends recur

entry created
wait hide until
scheduled ready
start started
due due
end done/delete

last mod

until modified

UDAs (Try: task uda)

ODAS (IIY: Cask due

Special Tags

+nonag +nocal +nocolor

Virtual Tags

+ OVERDUE + OVERDUE + TODAY + TOMORROW + WEEK + MONTH + YEAR

+YEAR +BLOCKED +BLOCKING

+BLOCKING +ACTIVE +SCHEDULED

+UNB LOCKED

+UNTIL

+READY +WAITING

task \(pro: Home or pro: Garden \) +weekend

+ANNOTATED +TAGGED +PARENT +CHILD +PENDING +COMPLETED

+DELETED

Examples

Filter:

Stop parsing: task add - pro:a /from/to/ +foo
Rename proj: task project:OLD modify project:NEW
Correction: task <id> modify /incorrect/correct/g
Hide until: task <id> modify wait:<date>
Expire task: task <id> modify until:<date>

Just data: task rc.verbose=nothing ...

Filter: task \(pro:Home or pro:Garden \) and +weekend

D Deimeke Revised 2016-11-25

P Beckingham

F Hemandez

l'II teach what I know

Let's see examples!

\$ task add Buy plane tickets
Created task 1.

\$ task add Book hotel
Created task 2.

\$ task add Write talk on TaskWarrior
Created task 3.

```
$ task
```

3 tasks

```
$ task 1 done
Completed task 1 'Buy plane tickets'.
Completed 1 task.
```

\$ task

ID	Age	Description	Urg
==	====		====
1	7min	Book hotel	1.8
2	6min	Write talk on TaskWarrior	1.8

2 tasks

Tasks renumber

Keeping things organised

Unstructured Many-to-many

- \$ task add Buy mini-screwdriver set
 +shopping
- \$ task add Ping client on invoice payment
 +phone +cyberdyne

\$ task +LATEST modify -cyberdyne +shinra

Great for searching!

\$ task +phone

I use for:

- Resource needed (phone/location)
- People invovled
- "Costly" tasks (more urgent)

Automatic meta-tags

```
$ task +YEAR
$ task +QUARTER
$ task +MONTH
$ task +WEEK
$ task +TOMORROW
$ task +TODAY
$ task +0VERDUE
```

```
$ task -SCHEDULED
$ task -PROJECT
$ task -UNTIL
```

Projects

Hierarchical

- \$ task add Book Mordor transport
 project:travel.mordor.logistics
- \$ task add Book Mordor accommodation
 project:travel.mordor.logistics
- \$ task add Renew Visa
 project:travel.mordor.legal

\$ task /Mordor transort/ done

Completed task f08d6fe7 'Book MordorCon transport' Completed 1 task.

Project 'travel.mordor.logistics' is now 50% complete (1 of 2 tasks remaining)

Great for multi-step tasks

\$ task projects

```
Project
                  Tasks
travel
                      40
  confoo
    yvr17
  lca18
                      15
  nz17
    shopping
                       5
  oscon17
                      11
  tryswift17
```

- \$ task project:travel
- \$ task project:travel.confoo

Moving house? Use a project!

Contexts!

- \$ task context define work
 project:work
- \$ task context define cyberdyne
 project:work.cyberdyne
- \$ task context define personal
 project.not:work project.not:fun -fun
- \$ task context define fun
 project:fun or +fun

- # Focus on cyberdyne tasks
- \$ task context cyberdyne
- # Get some personal work done
- \$ task context personal
- # Relaxation time!
- \$ task context fun

- # List available contexts
 \$ task context list
- # Show current context
- \$ task context show
- # Clear current context
- \$ task context none

Taking NOtes

Annotations

\$ task 31 annotate "Don't forget to discuss annotations"

Annotating task c7318895 'Write full-length talk on using taskwarrior'. Annotated 1 task.

Project 'speaking.new' is 50% complete (1 of 2 tasks remaining).

\$ task

ID Age	P Project	Tags	Description	Urg
== ===	= = ========	=====		====
31 5mo	H speaking.new	confoo	Write full-length talk on using taskwarrior	18.3
			2017-12-03 Don't forget to discuss	
			annotations	

Auto timestamp

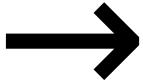
Show by default

I prefer description.count

Working with dates

\$ task add Send Dad birthday card
wait:2017-12-12

Wait



Hide until

\$ task waiting

\$ task 42 modify wait:tomorrow

\$ task 42 modify wait:+5d

\$ task add Send Dad birthday card wait:2017-12-12

schedule:2017-12-15

Schedule



Urgency boost after this date

Scheduled hides tasks on `task ready`

\$ task add Send Dad birthday card
wait:2017-12-12

schedule:2017-12-15

until:2017-12-25

Until

Delete after this date

Relative dates!

```
$ task add Send Dad birthday card
due:2017-12-18
schedule:"due - 3d"
wait:"due - 6d"
until:"due + 3d"
```

Relative to other tasks

```
$ t /conference/ ids
```

Amazing for scripting!

Urgency?

Some tasks more important

\$ task 2 modify due:+7d

Modifying task 2 'Write talk on TaskWarrior'. Modified 1 task.

\$ task

ID	Age	Due	Description	Urg
==	=====	====	=======================================	====
2	17min	6d	Write talk on TaskWarrior	7.4
1	17min		Book hotel	1.8

2 tasks

Urgency is calculated

Tags, Projects, Deadlines, Priorities

 \rightarrow

More Urgency

Highly configurable

~/.taskrc

urgency.user.tag.costly.coefficient = 3.0

urgency.user.project.leisure.coefficient = 0

\$ task 31

```
Value
Name
              31
ID
Description
              Write full-length talk on using taskwarrior
                2017-12-03 09:55:54 Sample annotation
Status
              Pending
Project
              speaking.new
Entered
              2017-07-06 00:09:01 (5mo)
Due
              2017-12-04 10:56:05
Last modified 2017-12-03 09:55:54 (11h)
Tags
              confoo
Virtual tags
              ANNOTATED DUE MONTH PENDING READY TAGGED TOMORROW UDA UNBLOCKED
              YEAR PROJECT PRIORITY
              c7318895-be3e-4f4d-adcc-c7db95684ad7
UUID
Urgency
              17.97
Priority
              Н
    project
                      0.8 *
    annotations
                                       0.8
                      0.8 *
                                       0.8
    tags
    due
                    0.712 *
                              12 =
                                     8.54
                    0.411 *
                               2 = 0.822
    age
                        1 *
    UDA priority.H
                                6 =
                                     17.97
```

Priority?

\$ task 42 modify priority:H

\$ task 42 modify pri:H

Priority:

- High
- Medium
- Low
- None (default)

But I like:

- High
- Medium
- None (default)
- Low

uda.priority.values = H,M,,L

urgency.uda.priority.L.coefficient=0
urgency.uda.priority..coefficient=1.8

Tools and Plugins

Taskopen

Opens resources in annotations

\$ task add Track tooth-flossing on Beeminder
Created task 12.

\$ task 12 annotate https://beeminder.com/ Annotated 1 task.

\$ taskopen 12



FORUM BLOG FEATURED PREMIUM | PJF



Track It. Back It

Your goals can be anything quantifiable - weight, pushups, minutes spent on Facebook, points on Duolingo. Answer with your number when Beeminder asks - or connect a device/app below to auto-report and we'll show your progress and a Yellow Brick Road to follow to stay on track. If you go off track, you pledge money to stay on the road the next time. If you go off track again, we charge you.

START YOUR GOAL



Automatically (bee)mind data from:



















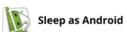




























\$ task add Finish report
Created task 13.

\$ task 13 annotate ~/report.xlsx
Annotated 1 task.

\$ taskopen 13

LibreOffice!

\$ task annotate 42 Notes
\$ taskopen 42

Vim!

Has lots of options

Working with others

BugWarrior



Sync remote issue trackers to bugwarrior

Github Trello Gmail IIRA

Gitlab Bitbucket Pagure Bugzilla Trac Megaplan **Teamlab** Redmine Taiga Gerrit Activecollab Phabricator **VersionOne** YouTrack

All my tasks in one place

~/.bugwarriorrc

```
[github]
service = github
github.login = pjf
github.token = secret
```

Use Trello with my partner

```
[trello-kate]
service = trello
trello.api_key = secret
trello.token = secret
trello.exclude_lists = Done
trello.include_boards = secret-specific-board
```

Only tasks assigned to me

trello.only_if_assigned = pfenwick

Customise title and project

```
trello.description_template = {{trellocard}}
trello.project_template = kate.trello
```

Per-board settings

Done in Trello →

Done in TaskWarrior

```
[gmail]
service = gmail
gmail.login_name = paul.j.fenwick@gmail.com
gmail.query = in:pinned
```

Description manipulation

```
gmail.description_template = Gmail: {{gmailsubject}}
gmail.static_fields = description
```

Enable/Disable Services

```
[general]
targets = trello-kate, trello-work, gmail
```

ignore my todo lists

I can't ignore my shell

Shell prompt integration

~/.bashrc

URGENT=" | "

DUETOMORROW=" " "

DUETODAY=" " "

OVERDUE="" "

function task_indicator { TASK="task"

```
if [ `$TASK +READY +OVERDUE count` -gt "0" ]; then
  echo "$OVERDUE"
```

```
elif [ `$TASK +READY +DUETODAY count` -gt "0" ]; then
    echo "$DUETODAY"
elif [ `$TASK +READY +TOMORROW count` -gt "0" ]; then
    echo "$DUETOMORROW"
elif [ `$TASK +READY urgency > 10 count` -gt "0" ]; then
    echo "$URGENT"
else
    echo '$'
fi
```

+READY

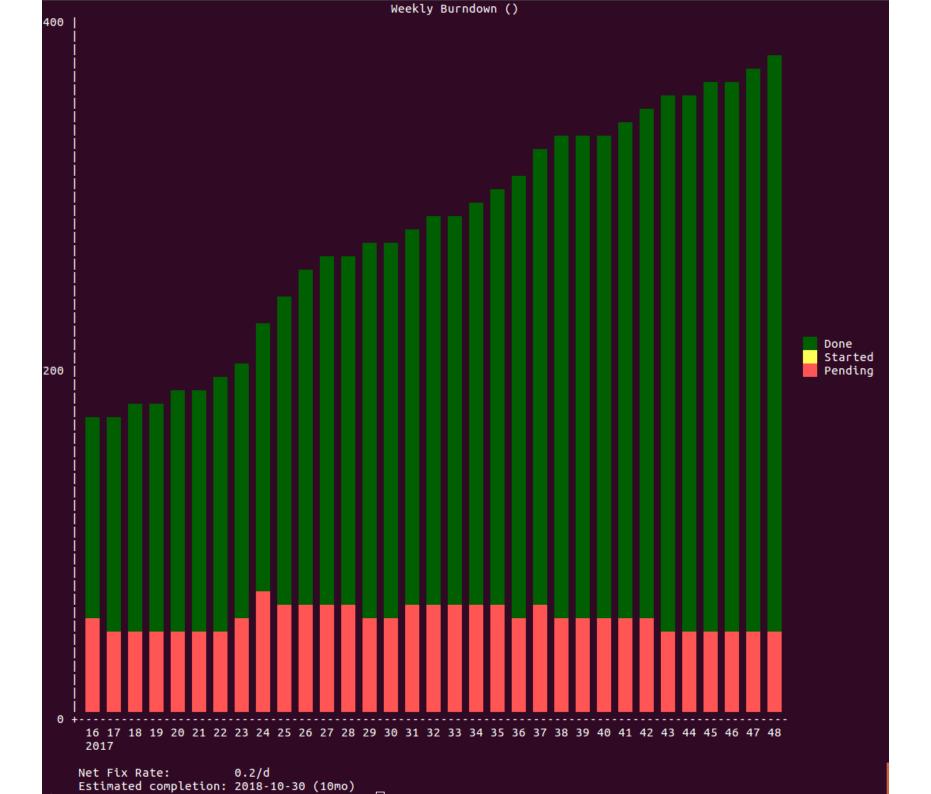


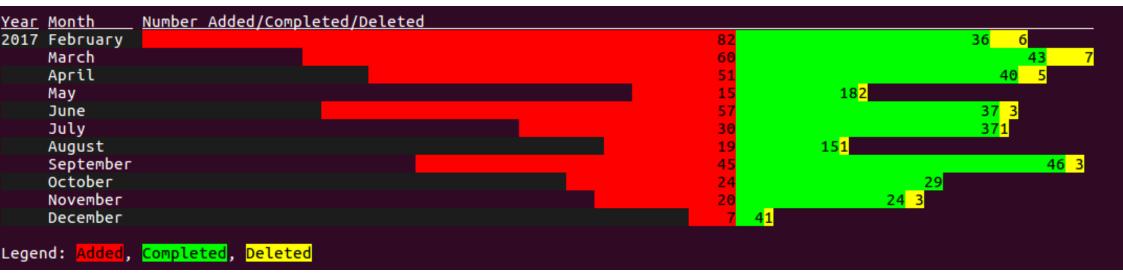
Hidden tasks don't count

```
PS1="... $(task_indicator) ..."
```

```
PS1="[e]0;u@h: wa]"'$(BRANCH=`git rev-parse --abbrev-ref HEAD 2> /dev/null`;
   if [ -n "$BRANCH" ]; then DIRTY=`git status --porcelain --untracked-files=no 2> /dev/null`;
   if [ -n "$DIRTY" ]; then echo "'$BRed'$CROSS "; else echo "'$BGreen'$TICK "; fi; fi;)'"
   $Color_Off${debian_chroot:+($debian_chroot)}w$BYellow$(__git_ps1)$(task_indicator) $Color_Off"
```

Graphical reports





December 2017								January 2018								February 2018										March 2018							
	Mo	Tu	<u>We</u>	<u>Th</u>	<u>Fr</u>	Sa	<u>Su</u>			Mo	Tu	<u>We</u>	<u>Th</u>	<u>Fr</u>	Sa	Su			Mo	Tu	<u>We</u>	<u>Th</u>	<u>Fr</u>	Sa	Su		Mo	Tu	<u>We</u>	<u>Th</u>	<u>Fr</u>	<u>Sa</u>	<u>Su</u>
48					1	2	3			1	2	3	4	5	6	7						1	2	3	4	9				1	2	3	4
49	4	5	6	7	8	9	10			8	9	10	11	12	13	14	6		5	6	7	8	9	10	11	10	5	6	7	8	9	10	11
50	11	12	13	14	15	16	17			15	16	17	18	19	20	21			12	13	14	15	16	17	18		12	13	14	15	16	17	18
	18	19	20	21	22	23	24			22	23	24	25	26	27	28	8		19	20	21	22	23	24	25		19	20	21	22	23	24	25
	25	26	27	28	29	30	31			29	30	31							26	27	28						26	27	28	29	30	31	
Legend: today,				dı	Je,	due	e-to	oday	,	ove	erdi	ue,	wee	eker	nd,	ho]	liday	,			numl												

YAM EXPORTS

Build Your Own Reports

Recurring Tasks

Advanced Filters

Online Sync

inthe.am

Only covered a fraction

Expect learning to take time

TaskWarrior grows with you

Thank you!

@pjf

https://github.com/pjf/talks/tree/master/taskwarrior

Questions?

https://github.com/pjf/talks/tree/master/taskwarrior

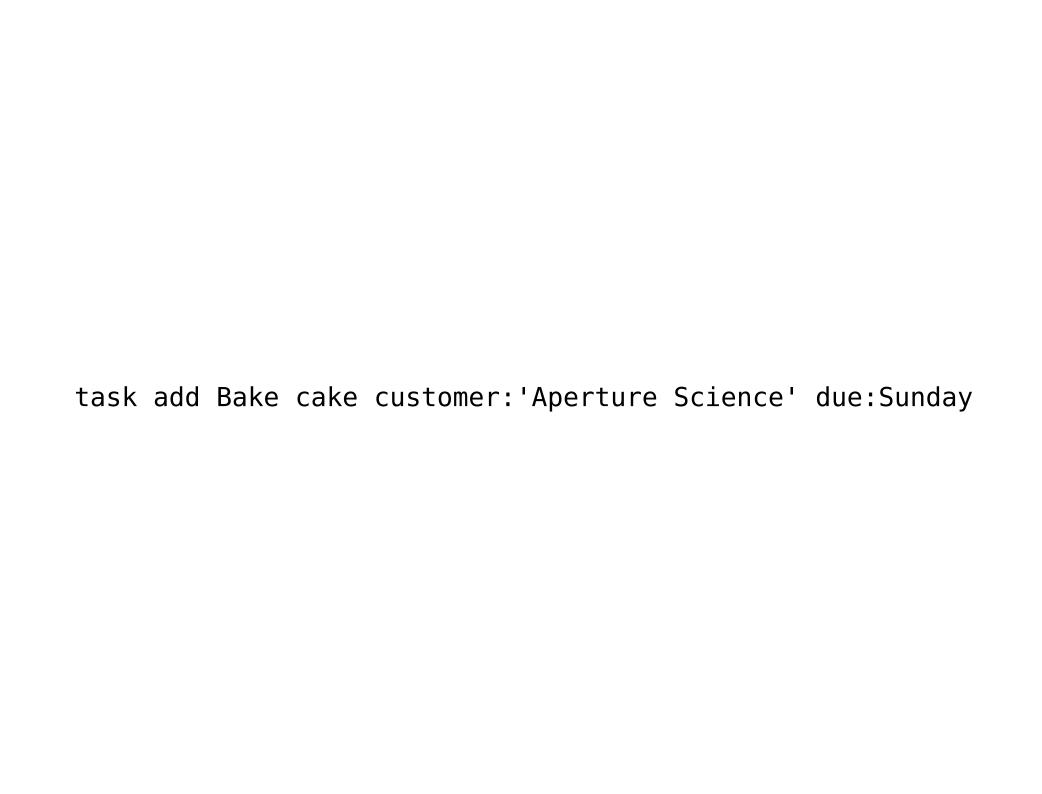
Bonus Section

User Defined Attribute

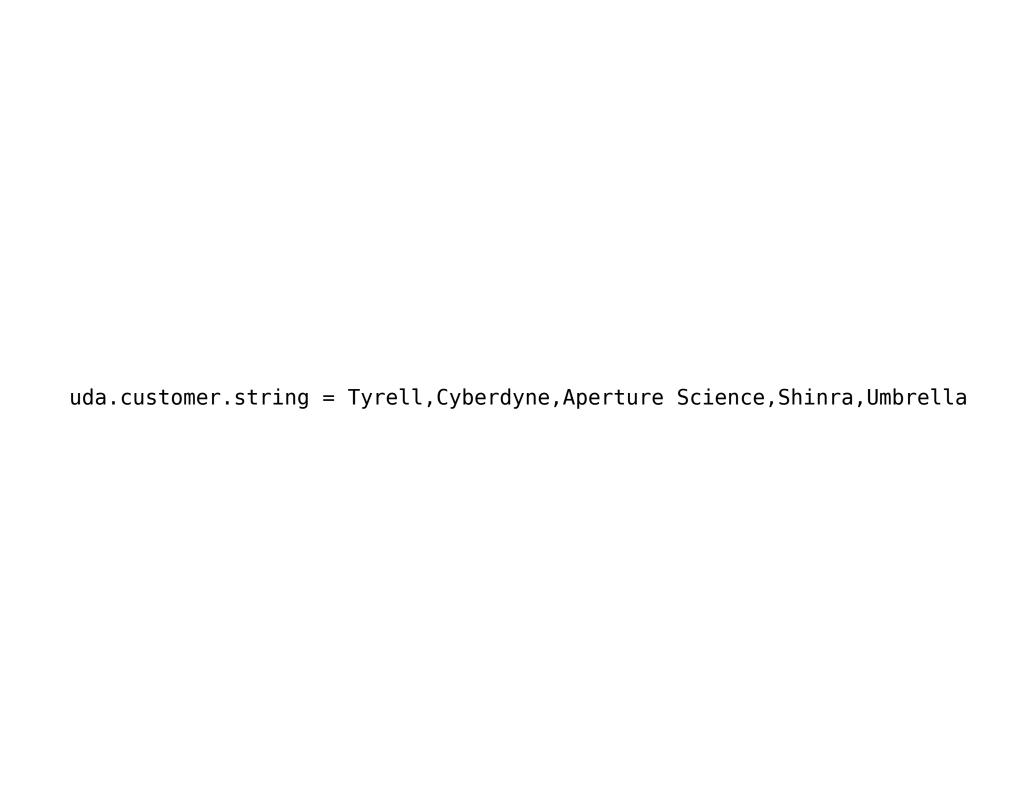
Add unstructured data to tasks

~/.taskrc

uda.customer.type = string
uda.customer.label = Customer



Protect against typos?



Types:

- string
- date
- duration
- numeric

Super-useful for extensions!

Hard deadlines due:

Soft deadlines scheduled:

Generously use until:

Delete generously

\$ task 31 done Presented talk at ConFoo \$ task 23 delete No longer relevant

Review tasks reguarly!