Taskwarrior

Philosophy and Ecosystem



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Taskwarrior Academy @ TNG Technology Consulting GmbH

Prolog

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Very Simple Rules

- No "Sie" please use "Du"!
- Questions? Ask!



The right tool is reliable.

The right tool is methodology agnostic.

The right tool does not stand in your way.

The right tool for task management

helps you focus on only a few tasks to do.

The right tool is the tool you want to use.

Taskwarrior

It is as easy as this example ...

- > task add Prepare Talk
- > task list
- > task 1 done

But it can be more ...

```
> task add \
                                              > task add \
    project:private.birthdays \
                                                  project:tngtech.administration \
    +anniversarv \
                                                  due.eom /
    due:2017-01-11T10:00:00Z \
                                                  priority:M \
    scheduled:2016-12-24 \
                                                  +boring \
    wait:soq \
                                                  +important \
                                                  recurr:monthly \
    until:due+7days \
    Send birthday card to Alice
                                                  Prepare Meeting
```

More sophisticated usage in the workshop this afternoon.

Background

Project founder Paul Beckingham:

I started out using Gina Trapani's todo.sh, which was great, but I soon wanted features that would have been difficult to implement in a shell script, so I wrote my own.

Motivation

Project founder Paul Beckingham:

It stemmed from the fact that a todo program needs to be simple to use, and unobtrusive, otherwise it's a hassle.

But it can't be too simple.

History – Some milestones

2006-11-29, v0.0.1

Project began as enhancement to todo.txt.

2014-01-15, v2.3.0

Task Server support.

2015-10-21, v2.5.0

Improved command line parser.

2016-02-24, v2.5.1

bug fix, code cleanup, performance release - no features.

near future, v2.6.0

overhaul recurrence and add more flavors of recurring tasks.

https://taskwarrior.org/docs/history.html

Taskwarrior is developed using a philosophy that explains a lot about why certain decisions have been made, and will continue to be made.



The source code, plans, bugs, testing, docs, website are all free and open source.

Your data is kept as plain text, and never held hostage by a proprietary format.

Low Friction

There should be no login authentication, lengthy launch, or interactivity getting in the way of simply capturing information.

No Penalty

There should be no penalty for features that exist, but you don't use.

But that also means the features are there if you need them.

Methodology Agnostic

While methodologies are important, Taskwarrior doesn't impose or prefer any methodology, and instead acknowledges that everyone works differently, placing different emphasis on things like priorities, due dates, dependence and so on.

Toolkit

Supporting all methodologies and workflows means there are a lot of features, but you are not expected to use them all.

Think of Taskwarrior as a toolkit that lets you follow any methodology you choose, and any methodology will only use a subset of the features.

There is a fine line between "richly-featured" and "bloated".

There may not be a line at all.

Extension Friendly

 $Import/export\ using\ industry-standard\ JSON\ allows\ you\ to\ move\ data\ into\ and\ out\ of\ Taskwarrior,\ so\ you\ can\ provide\ a\ front\ end,\ or\ higher-order\ feature.$

Focus

Taskwarrior carefully limits the features it supports, in order to focus on doing one thing well.

It does not offer reminders and time tracking, because there is other software dedicated to implementing those features well.

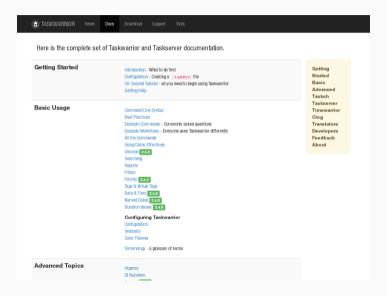
If a feature improves the way we manage task lists, then it belongs in Taskwarrior, otherwise it belongs in some other software.

What you keep out of a project is just as important as what you allow in to a project.

Documentation

Everybody wants it, noone wants to write it, most of the people don't read it . . .

Website - https://taskwarrior.org/docs/



manpages

```
> man task # 1187 lines
> man taskrc # 1182 lines
> man task-color # 330 lines
> man task-sync # 164 lines
# total: 2863 lines of information
(close to 50 printed pages)
```

task help

Guides – easier to read

Lesson learned:

Man pages are too densely crammed with information, and too lengthy, for most modern humans to ingest.

We offer PDF guides and presentations:

https://git.tasktools.org/projects/ST/repos/guides/browse

The need!			

With people running Taskwarrior on several machine the need rises to sync the task data between machines.

Taskserver synchronises Taskwarrior data.

Why Do I Need a Taskserver?

You may not need a Taskserver.

You may be content with using Taskwarrior on a single device.

But if you wish to share tasks between several clients, the Taskserver is the **only** option that properly syncs data.

One feature does it all

With a Taskserver, you can share tasks between clients/devices, eliminating the need to keep your data up to date on multiple clients, reducing data entry.

One nice side effect of using a Taskserver is an automatic backup of your tasks.

Short history, long time

2010-09-22

Project began.

2012-09-26

Project restarted using GnuTLS.

2014-01-15, v1.0.0

Sync Protocol v1. Compatibility with Taskwarrior 2.3.0.

2015-05-10, v1.1.0

Improved security, logging, portability, documentation, quality, setup,

PKI scripts. IPv4/IPv6 support. Many bug fixes.

Short: Everything is better now.

https://taskwarrior.org/docs/history_td.html

Time tracking

 $\label{eq:people-at least some-like to use Taskwarrior for time\ tracking.$

This does not match our philosophy "improves the way we manage task lists", so it has to be another software.

Timewarrior tracks and reports time.

What does Timewarrior do?

Timewarrior is a command line time tracking application, which allows you to record time spent on activities.

At its simplest, you tell it to start and stop tracking time:

```
> timew start
```

. . .

> timew stop

Why do I need Timewarrior?

You will be able to track your time intelligently, then generate useful visual or tabular reports of that time.

An extension API lets you do anything you want with your data.

Example

Suppose you start the clock at noon on a Friday, then you stop the clock at noon on Tuesday.

Did you really just spend 96 hours on a task? More likely you only spent 16 hours, or perhaps 8 hours if Monday was a national holiday.

Timewarrior supports you in solving that riddle.

How does Timewarrior work?

Timewarrior records time, and associates blocks of time with tags.

The recorded data can be exposed as JSON for any app to consume.

Built-in reports, as well as a set of extension reports will give you plenty of options.

A Taskwarrior hook script provides integration with the matching start and stop commands, thereby enabling proper time tracking for Taskwarrior users.

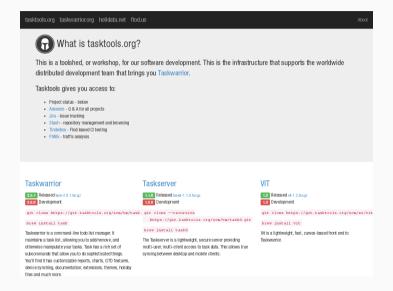
History

2016-08-21, v1.0.0

Project released the time it was presented at FrOSCon.

Ecosystem

Tasktools - https://tasktools.org/



tasksh - https://tasktools.org/projects/tasksh.html

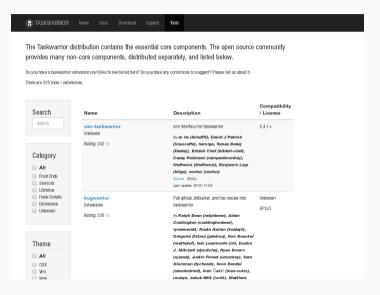
Tasksh is a shell command that wraps Taskwarrior commands. It is intended to provide simpler Taskwarrior access.

Tasksh implements a review feature, and integrates libreadline. It is on it's own release schedule that is unhampered by lengthy Taskwarrior development cycles.

Future Tasksh releases are being planned now. Features currently being designed include:

- Pomodoro Timer
- Notifications

3rd Party Apps - https://taskwarrior.org/tools/



taskopen - https://github.com/ValiValpas/taskopen

Taskopen allows you to link almost any file, webpage or command to a Taskwarrior task by adding a filepath, web-link or uri as an annotation.

Text notes, images, PDF files, web addresses, spreadsheets and many other types of links can then be filtered, listed and opened by using taskopen.

Some actions are sane defaults, others can be custom-configured, and everything else will use your systems mime-types to open the link.

Arbitrary commands can be used with taskopen at the CLI, acting on the link targets, enhancing listings and even executing annotations as commands.

vit - https://tasktools.org/projects/vit.html

VIT (Visual Interactive Taskwarrior) is a lightweight, curses-based front end for Taskwarrior that provides a convenient way to quickly navigate and process tasks.

VIT allows you to interact with tasks in a Vi-intuitive way.

A goal of VIT is to allow you to customize the way in which you use Taskwarrior's core commands as well as to provide a framework for easily dispatching external commands (both user scripts and Taskwarrior's many External Scripts).

Android - https://bitbucket.org/kvorobyev/taskwarriorandroid/

- Because Android application uses task binary for all manipulations with tasks, in general, you can expect exactly same behaviour with original Taskwarrior
- Synchronisation with taskd server works!
- Features below are unique to Android version:
 - Create shortcuts to reports and new task templates to Home screen
 - Multiple profiles support
 - Auto-syncronisation by configurable intervals
- Following features are not implemented at present moment:
 - UDAs
 - Dependencies

https://play.google.com/store/apps/details?id=kvj.taskw

GUI Client - https://bitbucket.org/kvorobyev/taskwarriorc2



Linux, macOS and Android,
https://play.google.com/store/apps/details?id=com.taskwc2

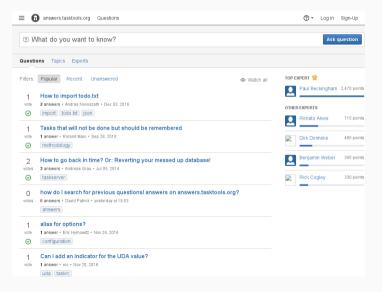
Contribute to Taskwarrior

Want to contribute? - https://taskwarrior.org/docs/contribute.html

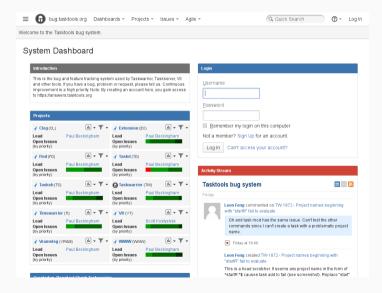
How to become an Open Source Contributor

We have some information for you on how to become an Open Source Contributor for the first time (http://taskwarrior.org/docs/first_time.html - applies to the second and third contribution as well).

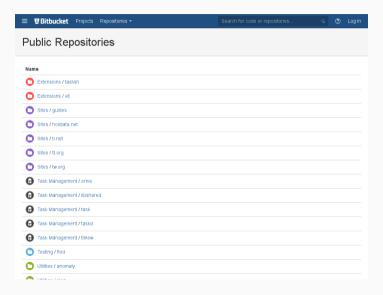
Questions and Answers - https://answers.tasktools.org/



Issue Tracking - https://bug.tasktools.org/

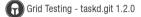


Repository Management - https://git.tasktools.org/



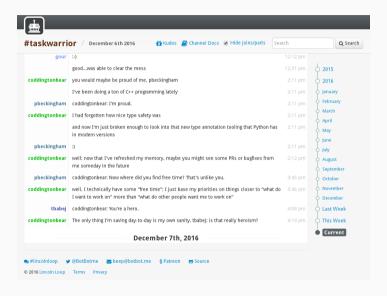
Continous Integration - http://central.tasktools.org

central.tasktools.org flod.us



	Arch 2016 64 (GBF)	Debian 8 64 (GBF)	Fedora 24 64 (GBF)	OSX 10.12 64 (GBF)	Ubuntu 16.04 64 (GBF)
2016-11-22 15:46:51 a015237a Paul Beckingham	100.00 % 40.40 6 files. Warn 16.3 sec	100.00% 40/40 6 files. Warm 19.4 sec	100.00 % 40/40 6 files. Warn 17.2 sec	100.00% 40.40 6 files. 14.6 sec	100.00% 40/40 6 files. Warn 19.9 sec
2016-11-22 15:45:03 [42a6de4 Paul Beckingham	100.00% 40.40 29 skipped, 6 files. Warn 15.7 sec	100.00 % 40/40 29 sklaped, 6 files, Warm 18.5 sec	100.00% 40/40 29 skipped, 6 files, Ware 16.5 sec	70.00% 28/40 6 files. fail 14.6 sec	100.00% 40/40 29 skipped, 6 files, Ware 19.5 sec
2016-11-22 15:44:43 a661a534 Paul Beckingham	100.00% 40/40/29 skipped, 6 files. Warn 15.7 sec	100.00% 40/40 29 sklaped, 6 files, Warm 18,6 sec	100.00% 40/40 29 skipped, 6 files, Warm 17.2 sec	70.00% 28/40 6 files, fail 14.9 sec	100.00% 40/40 29 skipped, 6 files, Warm 19.3 sec
2016-11-22 15:38:57 ae0a784e Paul Beckingham	100.00% 56.56 29 skipped, 7 files. Warn 16.4 sec	100.00% 56/56 29 skipped, 7 files, Warm 19.0 sec	100.00% 56/56 29 skipped, 7 files, Ware 18.0 sec	78.57% 44/56 7 files. fail 16.1 sec	100.00% 56/56 29 skipped, 7 files, Ware 19.6 sec
2016-11-22 15:06:47 9d5c721e Paul Beckingham	100.00% 56.56 29 skipped, 7 files. Warn 16.5 sec	100.00% 56/56 29 skipped, 7 files. Warm 19.2 sec	100.00% 56/56 29 skipped, 7 files, Warn 17.4 sec	78.57% 44/56 7 files. Fail 15.0 sec	100.00% 56/56 29 skipped, 7 files, Warn 20.2 sec
2016-11-22 15:06:39 b633d f60 Paul Beckingfram	100.00% 56/56 29 skipped, 7 files. Warn 16.4 sec	100.00% 56/56 29 skipped, 7 files. Warn 19.3 sec	100.00% 56/56 29 skipped, 7 files. Warm 17.2 sec	87.50% 49/56 7 files. Fail 15.2 sec	100.00% 56/56 29 skipped. 7 files.

IRC channel logger - https://botbot.me/freenode/taskwarrior/



Getting Help

There are several ways of getting help:

- Submit your details to our Q & A site, then wait patiently for the community to respond.
- **Email** us at support@taskwarrior.org, then wait patiently for a volunteer to respond.
- Join us IRC in the #taskwarrior channel on Freenode.net, and get a quick response from the community.
- Even though Twitter is no means of support, you can get in touch with @taskwarrior.
- We have a **User Mailinglist** which you can join anytime to discuss about Taskwarrior and techniques.
- The **Developer Mailinglist** is focussing on a more technical oriented audience.

Epilog

Taskwarrior is platform independent

- Most flavours of Unix and Linux, including macOS
- Windows 10 Linux Subsystem (Other Windows versions with Cygwin – unsupported, but known to work)
- Android with Termux
- Third-Party Apps (Android-Client, GUI based on NodeJS, ...)

Conclusion

```
Taskwarrior ....
... is easy to learn.
... grows along with the work.
... is unbelievably powerful.
... is very fast.
... is easily extensible.
... is actively developed.
... can be influenced by users (feature requests).
... has excellent and very friendly support.
```



Thank you!

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