

ROS Team Workspace (RTW)

Kollaboratives Arbeiten in ROS-Projekten erleichtern

ROSCON 2023

Repo: github.com/StoglRobotics/ros_team_workspace

Docs: rtw.stoglrobotics.de

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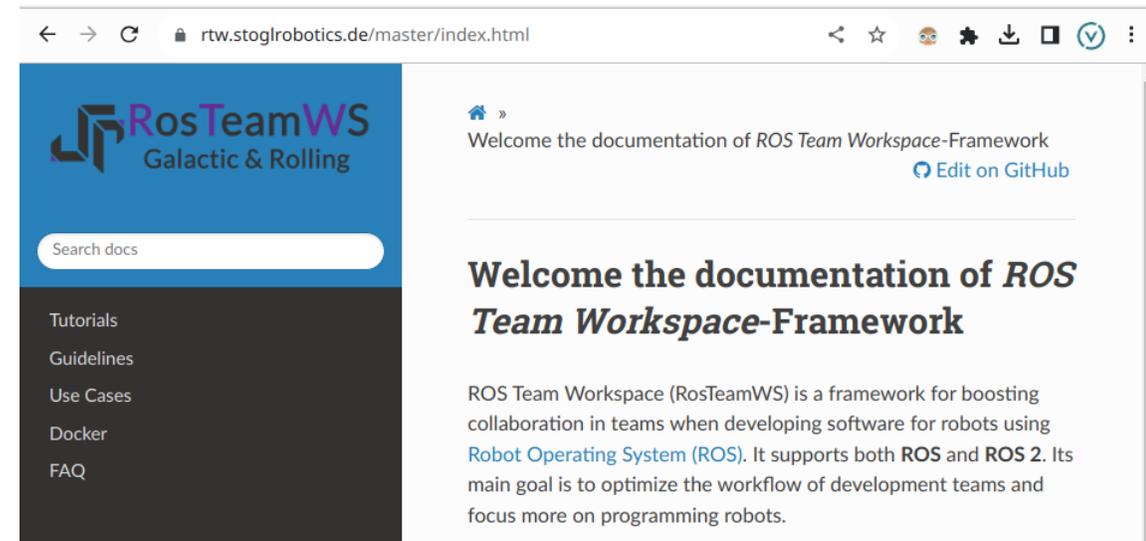
WWW.STOGLROBOTICS.DE

Was ist RTW?

Open Source Framework für ROS- und ROS 2-Entwicklung

Schlüsselfunktionen:

- Vereinfachtes Workspace-Management
- Standardisierte Paketstruktur
- Skripte und Aliase für Workspace- und Paket-Management



The screenshot shows the website rtw.stoglrobotics.de/master/index.html. The page features the RosTeamWS logo (Galactic & Rolling) and a search bar. The main content area welcomes users to the documentation of the ROS Team Workspace-Framework, with a link to 'Edit on GitHub'. Below this, there is a heading 'Welcome the documentation of ROS Team Workspace-Framework' and a paragraph describing the framework's purpose: 'ROS Team Workspace (RosTeamWS) is a framework for boosting collaboration in teams when developing software for robots using Robot Operating System (ROS). It supports both ROS and ROS 2. Its main goal is to optimize the workflow of development teams and focus more on programming robots.'

Warum RTW?

Kollaboration verbessern

- Ursprünglich für KIT-Studenten
- Nützlich für alle ROS-Projekte
- Fokus auf Robotikprogrammierung
statt Verwaltung



WS Management

setup-ros-workspace WS_FOLDER ROS_DISTRO

```
daniela@sr-c1040:>roscon23de$ █
```

Scripte & Aliase

Meistgenutzte Aliases: `_WS_FOLDER`, `roscd`, `rosds`, `cb`, `crm`, etc

```
daniela@sr-c1040:>roscd$ █
```

WS Management (2)

setup-ros-workspace-docker WS_FOLDER ROS_DISTRO

```
daniela@sr-c1040:>roscon23de$
```

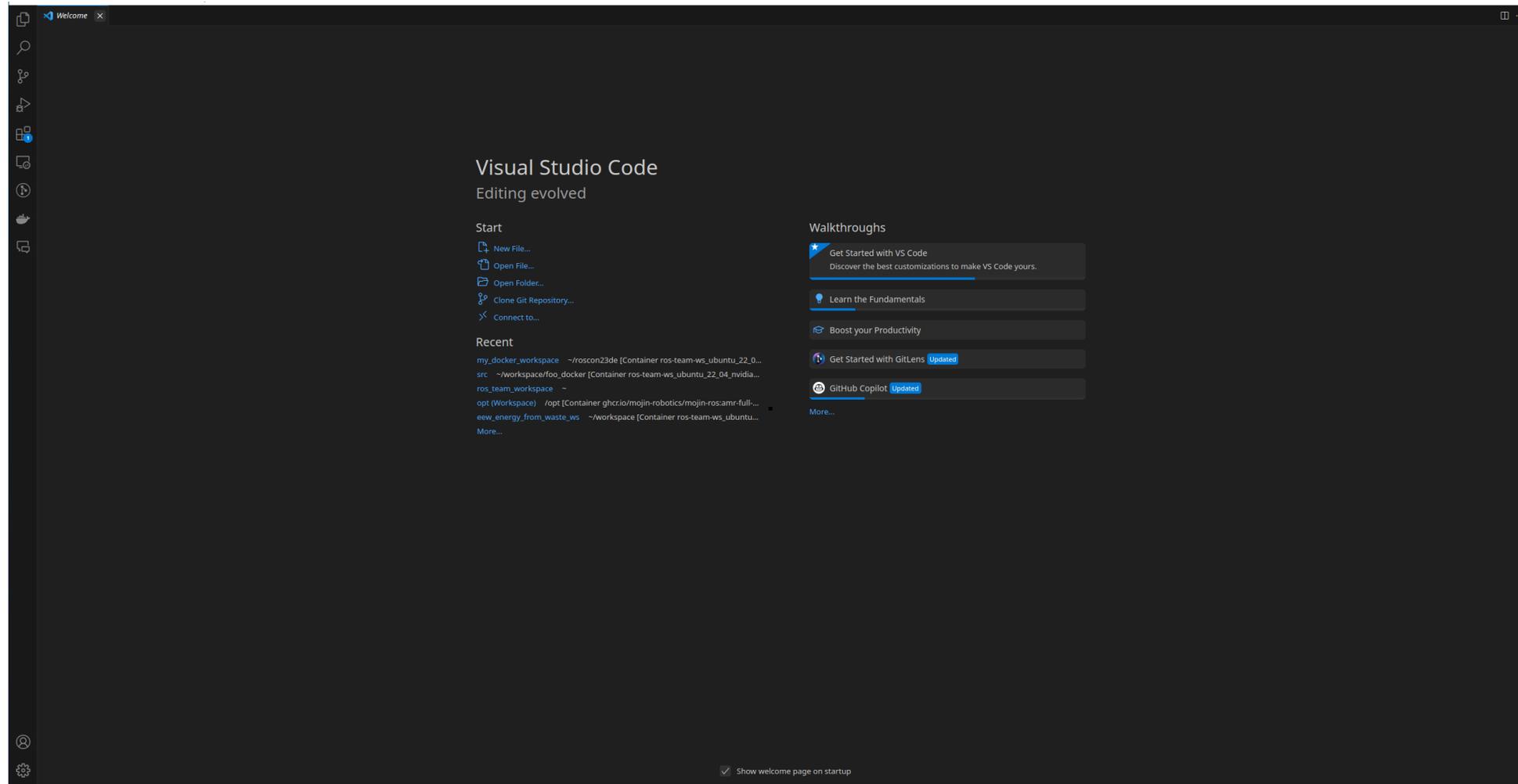
Scripte & Aliase (2)

Docker Alias: *rtw_switch_to_docker*, etc.

```
daniela@sr-c1040:>roscon23de$ █
```

Integration in VSCode

Attach to container



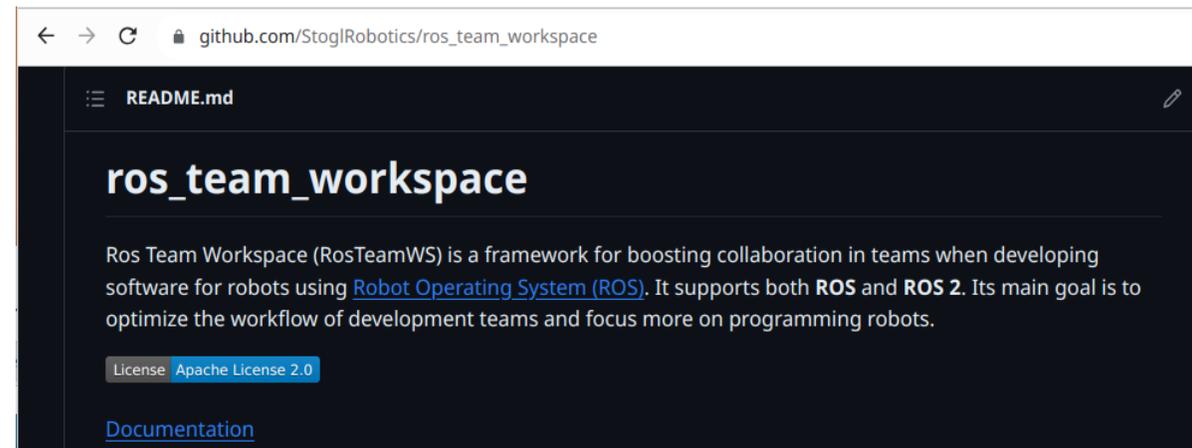
RTW: Fazit

Ein Must-Have für jeden ROS-Entwickler

Relevanteste Vorteile:

- Von ROS-Einsteigern bis zu erfahrenen Teams in komplexen Systemen
- Reduzierte Einarbeitungszeit (docker)
- Effiziente Nutzung komplexer Befehle (symlink)

-> Fokus auf Robotikprogrammierung
statt Verwaltung



Vielen Dank!

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