

Contributing to RaspiBlitz Development



https://github.com/rootzoll/raspi blitz

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master 8 branches 8 tags Go to file Add file Code

rootzoll Merge pull request #1426 from dennisreimann/patch-1 67ade48 8 days ago 4,785 commits

alternative.platforms	docs: add pictures of HC1 and XU4	12 months ago
case.3dprint/standard	split Raspi blitz_standard.stl into two files #396	2 years ago
home.admin	#1380 corrected torrent file	13 days ago
pictures	#1380 update documentation details	14 days ago
.gitignore	Merge pull request #812 from frennie/add-pyqt-gui	9 months ago
CHANGES.md	#1380 introduce changes file	14 days ago
FAQ.md	Mention the custom-installs.sh script	8 days ago
LICENSE	added MIT License #70	2 years ago
README.md	Added Video on RTL	8 days ago
WORKSHOP.md	Merge branch 'master' into v1.4	7 months ago
build_sdcard.sh	#1338 typo fix	last month

README.md

RASPI BLITZ

Build your own Lightning Node on a RaspberryPi with a nice Display.

About

Get your own Bitcoin & Lightning Node running - on a RaspberryPi with a nice LCD

Readme MIT License

Releases 8

v1.4 **Latest** on 22 Feb

+ 7 releases

Packages

No packages published Publish your first package

Contributors 78

+ 67 contributors

raspi blitz.org

→ go to GitHub Page

- At least get a GitHub Account to contribute
- **Create an Issue** to get conversation started
- You can even start without any further knowledge on how to use GitHub

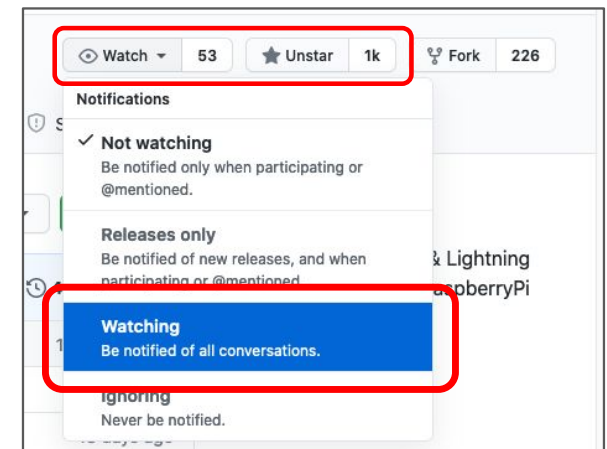
Levels of Contribution to the RaspiBlitz Project

1. **Testing, Report & Discuss:** RaspiBlitz or Additional Apps
2. **Experiment:** Try things out on your own RaspiBlitz
3. **Install-Script:** Turn your Experiment into a basic Shell-Script
4. **Config-Script:** Integrate your Script into the RaspiBlitz Environment
5. **SSH-GUI:** Make it easy for others to use your Feature
6. **Web-GUI:** Have your Feature ready Customer-Ready

Testing, Report & Discuss: RaspiBlitz or Additional Apps

Skills: User-Level (no programming skills needed)

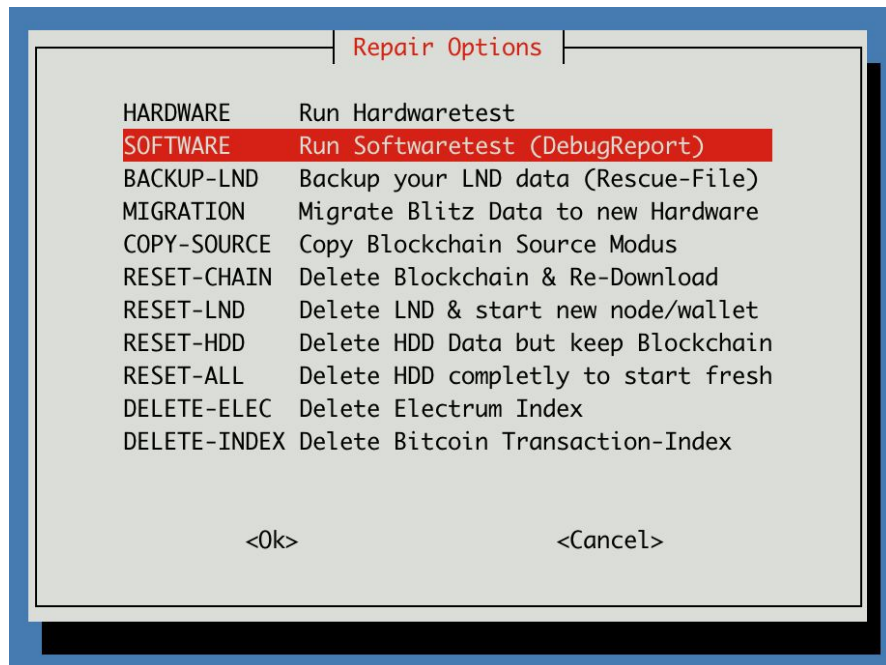
- What can work better? → Create Issue: Feature-Request
- What's not working? → Create Issue: Error-Report → Debug-Report*
- Connect with teams of the “Additional Apps”
- Help other users on Error-Reports →
- Correct a Typo → Do it directly on GitHub*



Testing, Report & Discuss: RaspiBlitz or Additional Apps

Skills: User-Level (no programming skills needed)

- What's not working? → Create Issue: Error-Report → Debug-Report



```
upsStatus='OFF'
startcountBlockchain=1
bitcoinActive=1
blockchainHeight=644166
initialSync=0
syncProgress=100.00
startcountLightning=1
lndActive=1
walletLocked=0
syncedToChain=1
scanTimestamp=1597680918
scanDate='Mon 17 Aug 17:15:18 BST 2020'
scanProgress=99.99
lndRPCReady=1
blitzTUIActive=0
blitzTUIRestarts=0
scriptRuntime=1

*** OPTION: SHARE THIS DEBUG OUTPUT ***
An easy way to share this debug output on GitHub or on a support chat
use the following command and share the resulting link:
/home/admin/XXdebugLogs.sh | nc termbin.com 9999

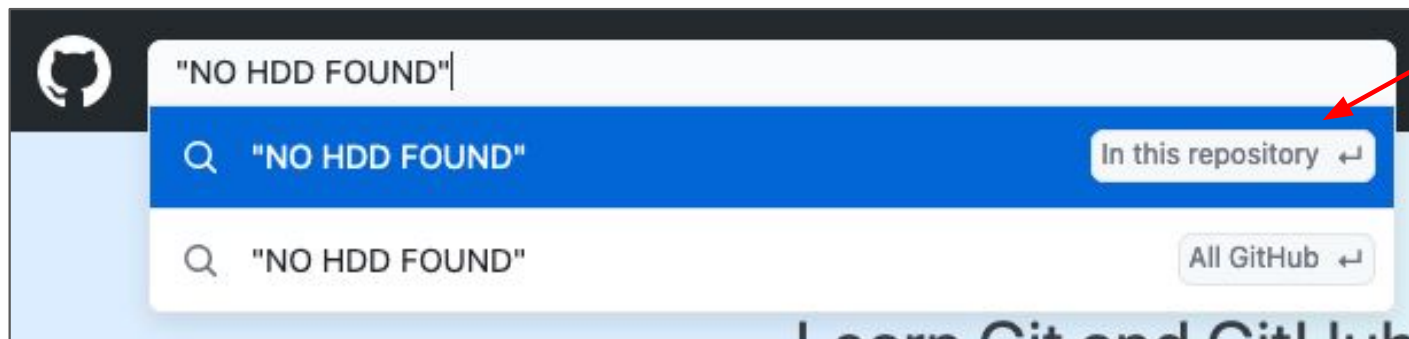
Press ENTER to return to main menu.
```

Testing, Report & Discuss: RaspiBlitz or Additional Apps

Skills: User-Level (no programming skills needed)

- Correct a Typo → Do it directly on GitHub

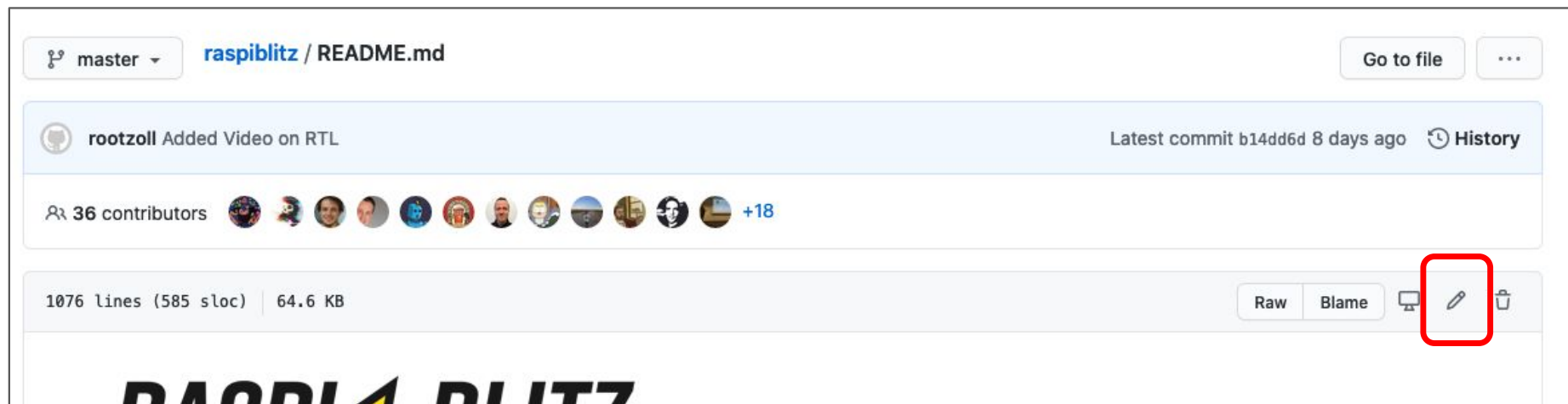
Use GitHub search to find the typo in the code with “In this repository”



Testing, Report & Discuss: RaspiBlitz or Additional Apps

Skills: User-Level (no programming skills needed)

- Correct a Typo → Do it directly on GitHub



Testing, Report & Discuss: RaspiBlitz or Additional Apps

Skills: User-Level (no programming skills needed)

- Correct a Typo → Do it directly on GitHub

Text-Editor in Browser



478
479 Activate/Deactivate settings with the spacebar and then select OK to activate changes. Here you find more details about those options (top to down):
480

Propose changes

Fixed a Typo (Test)

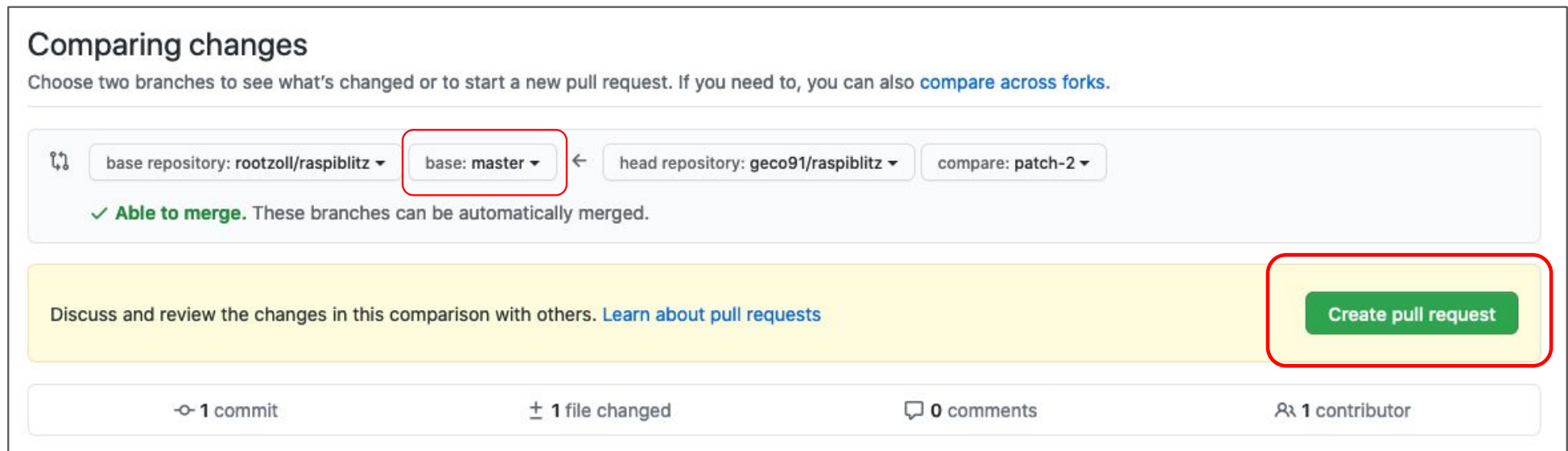
just for testing - please delete

Propose changes Cancel

Testing, Report & Discuss: RaspiBlitz or Additional Apps

Skills: User-Level (no programming skills needed)

- Correct a Typo → Do it directly on GitHub



The screenshot shows the GitHub 'Comparing changes' interface. At the top, it says 'Comparing changes' and 'Choose two branches to see what's changed or to start a new pull request. If you need to, you can also [compare across forks](#).' Below this, there are four dropdown menus: 'base repository: rootzoll/raspi blitz', 'base: master', 'head repository: geco91/raspi blitz', and 'compare: patch-2'. The 'base: master' dropdown is highlighted with a red box. Below the dropdowns, it says '✓ Able to merge. These branches can be automatically merged.' In the center, there is a yellow box with the text 'Discuss and review the changes in this comparison with others. [Learn about pull requests](#)'. On the right side of this yellow box, there is a green button labeled 'Create pull request', which is also highlighted with a red box. At the bottom, there is a summary bar with four items: '1 commit', '1 file changed', '0 comments', and '1 contributor'.

Experiment: Try things out on your own RaspiBlitz

Skills: Basic Linux Terminal Knowledge

- Get another project running as an “Additional App” on RaspiBlitz
 - Make a change to the Systems configuration
 - Connect different Hardware or Hacking Projects
- good to know →
- Built on a Linux distro called Raspberry OS - based on Debian
 - `bitcoind` is running under user `bitcoin` in `/mnt/hdd/bitcoin`
 - `lnd` running under user `bitcoin` in `/mnt/hdd/lnd`
 - `lnd` RPC port: 10009 REST port: 8080
 - get macaroons/TLS under `SSH-MENU > LNDCREDS > EXPORT`
- outcome → **Share your Experience as a Report-Issue**

Install-Script: Turn Experiment into a basic Shell-Script

Skills: Basic Bash-Shellscript Knowledge

- Raspiblitz starts on every Update with a fresh sd card → clean system
- Write your changes into `/mnt/hdd/app-data/custom-installs.sh`
- Make sure you script runs without user-interaction
- Test with inserting a fresh sd card, run recovery and check results
- Find debug output of recovery: `/home/admin/raspiblitz.recover.log`

outcome



Share this shell script within an issue (without sensitive data)

Config-Script: Integrate into the RaspiBlitz Environment

Skills: GitHub & Advanced Bash-Shellscript

- Work on your own forked Repo & sync it to your RaspiBlitz for testing*
- Add your script to directory: `/home/admin/config.scripts/`
- Basic functions should be: `on, off ...` including the parameters you need
- Configuration: `/mnt/hdd/raspi blitz.conf` Data: `/mnt/hdd/app-data`
- Part of recovery process: `/home/admin/_bootstrap.provision.sh`

outcome



Make a Pull-Request from your forked Repo to RaspiBlitz Repo

Config-Script: Integrate into the RaspiBlitz Environment

Skills: GitHub & Advanced Bash-Shellscript

- Work on your own forked Repo & sync it to your RaspiBlitz for testing
MAINMENU > UPDATE > PATCH > PATCH MENU > REPO and/or BRANCH
- Use your Editor to **change scripts** on forked Repo
- **Commit** small changes to that Repo
- On RaspiBlitz terminal: call command **patch** to sync changes onto Raspi
- run, test & repeat

good to know



- Temp state info: `/home/admin/raspiblitz.info`
- every additional app should run as own user
- add user to matching groups for access to LND macaroons
- WebUIs should integrate with nginx for SSL & TOR & IP2TOR

SSH-GUI: Make it easy for others to use your Feature

Skills: GitHub & Advanced Bash-Shellscript & Dialog-GUI

- Project should already be community tested & has improved resilience
- Adding `dialog` or `whiptail` SSH menus for install & config
- If its a “Additional App” it should have a `status` page for the MainMenu
- Logs should be included in the `debug` informations
- Commitment for Documentation, Support and Updating the feature

outcome



Make a Pull-Request from your forked Repo to RaspiBlitz Repo

Web-GUI: Have your Feature ready Customer-Ready

Skills: GitHub & Advanced Bash-Shellsript & WebFrontend

- Project working fine in SSH world → Make available to WebGUI
- Reduce Complexity to identified “default cases” for users of just WebGUI
- WebGUI JS → calls Endpoint → calls Config-Script → returns JSON Output
- Config-Shellsript outputs usable for Web-Backend-API (JSON or KeyValue)
- Also consider adding a “Infoscreen” on the touchscreen menu (BlitzTUI)

beware



This is still in Development - may see prototypes in RaspiBlitz v1.8