ROBOCON 2021 REMOTE EVENT

MAR 2021

#ROBOCON2021

Robot Framework Foundation

WHAT'S NEW IN REQUESTSLIBRARY 0.9

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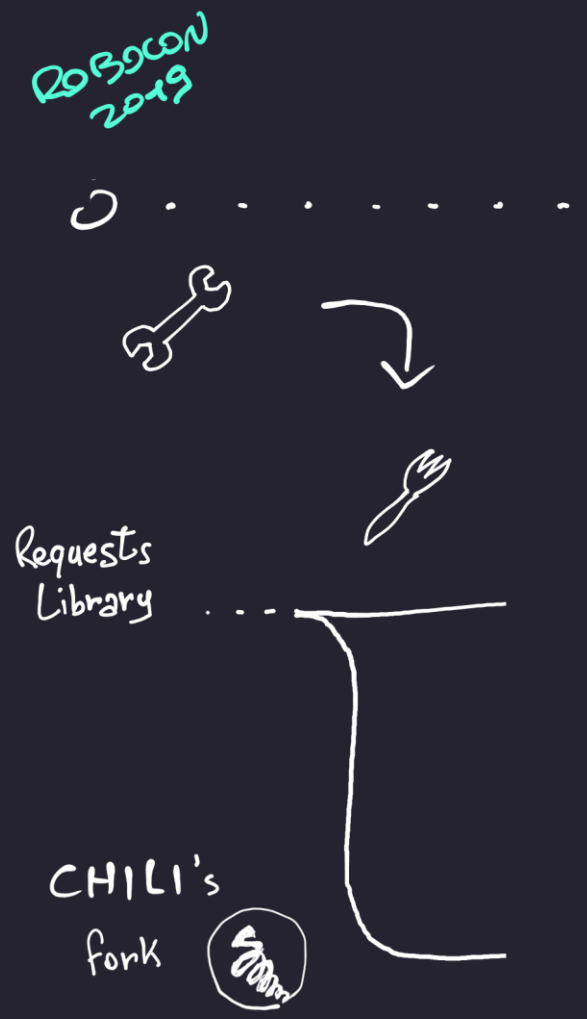
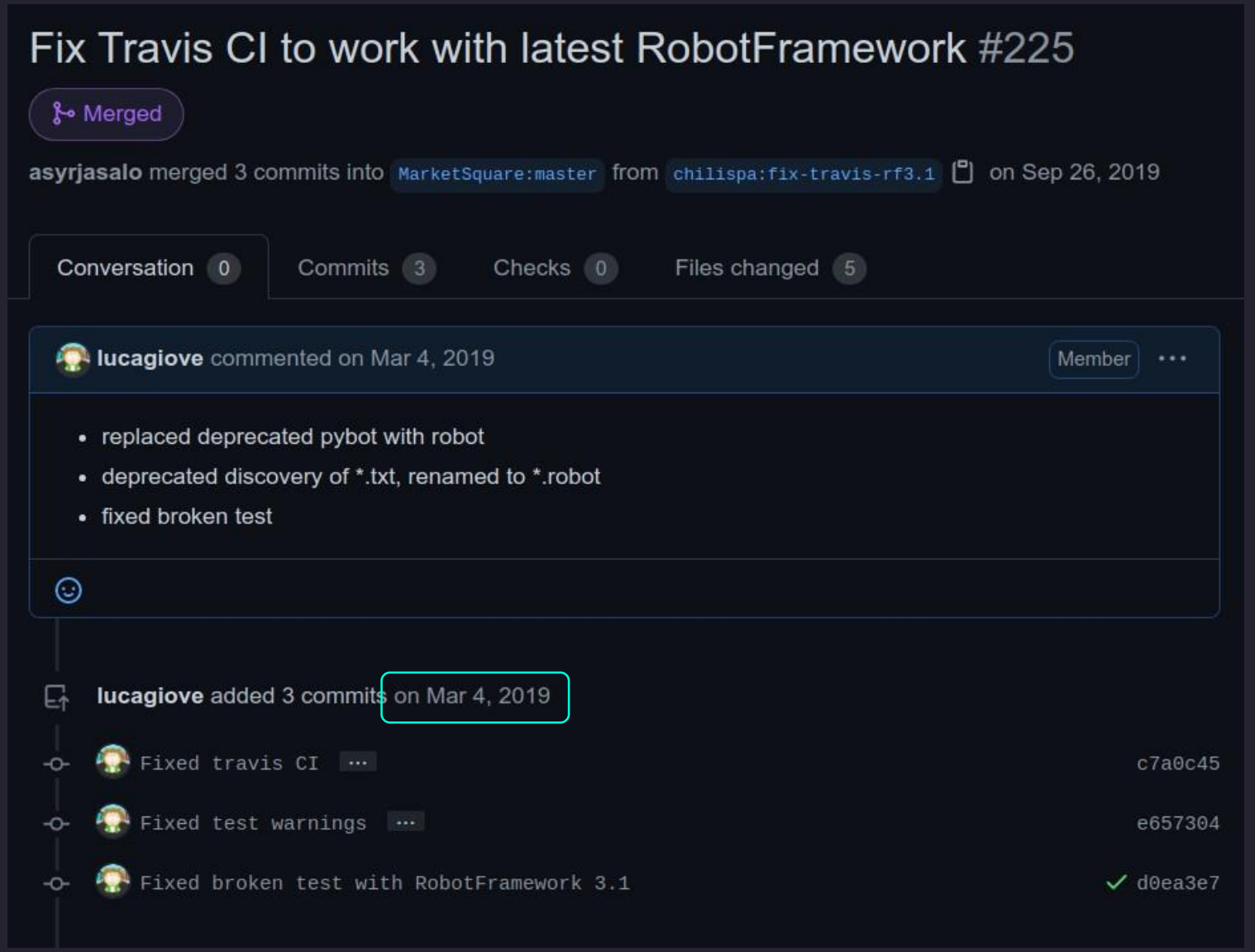
ONCE UPON A TIME

REQUESTS SESSION HACKING

NEEDED TO FORK



FIRST PULL REQUEST



MULTIPLE PULL REQUESTS

Fixed and updated documentation and GitHub Pages
#240 by lucagiove was merged on Sep 25, 2019

Retry status all commits ●

8
#237 by lucagiove was merged on Sep 26, 2019

Retry request in case of specific http statuses (eg 502) ●
2
#236 by lucagiove was merged on Sep 14, 2019

Log refactor ×
#235 by lucagiove was merged on Sep 26, 2019

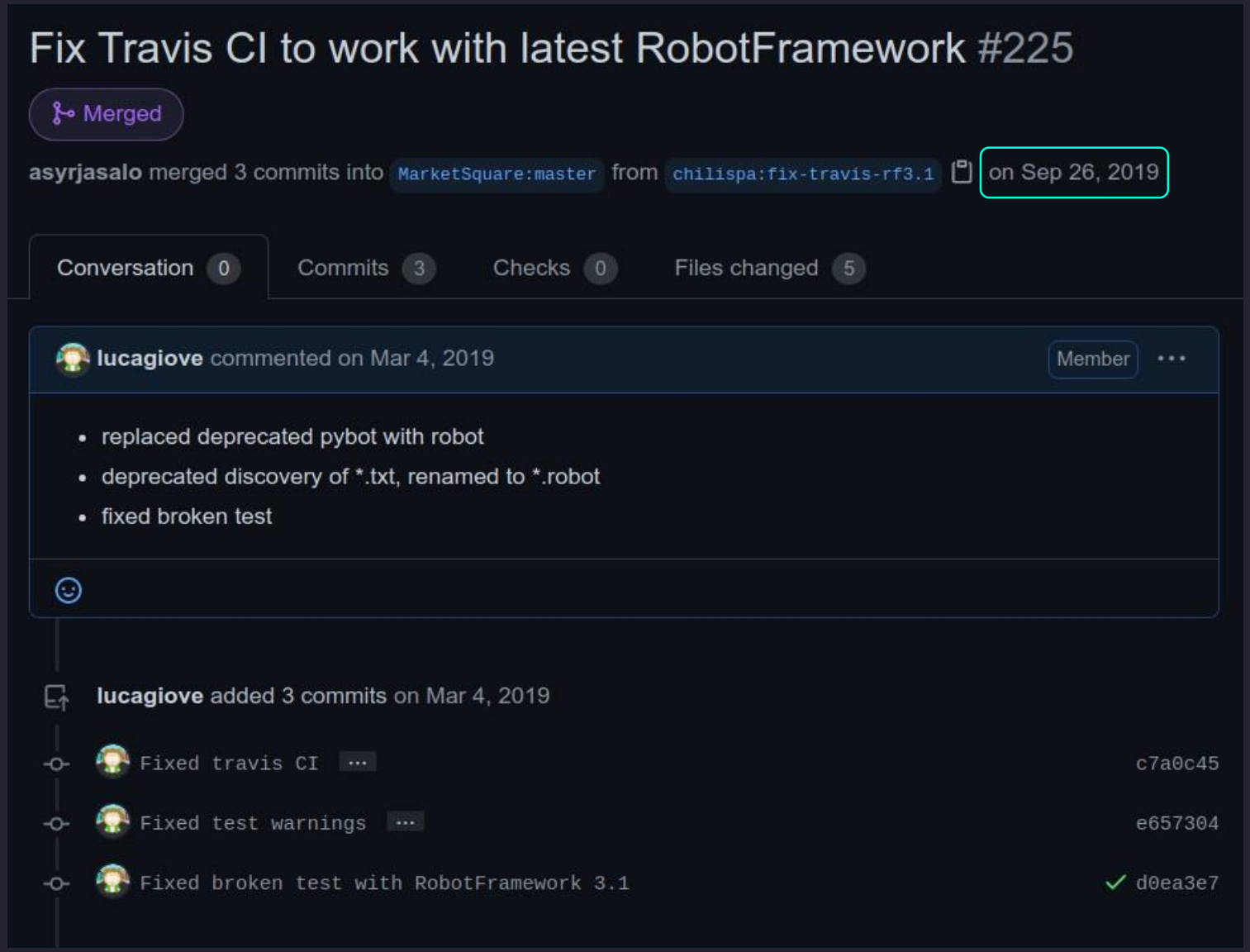
Fix header case ●
#228 by lucagiove was merged on Sep 26, 2019

Remove duplicated code (conflict solved and PR review) ●
2
#227 by lucagiove was merged on Sep 26, 2019

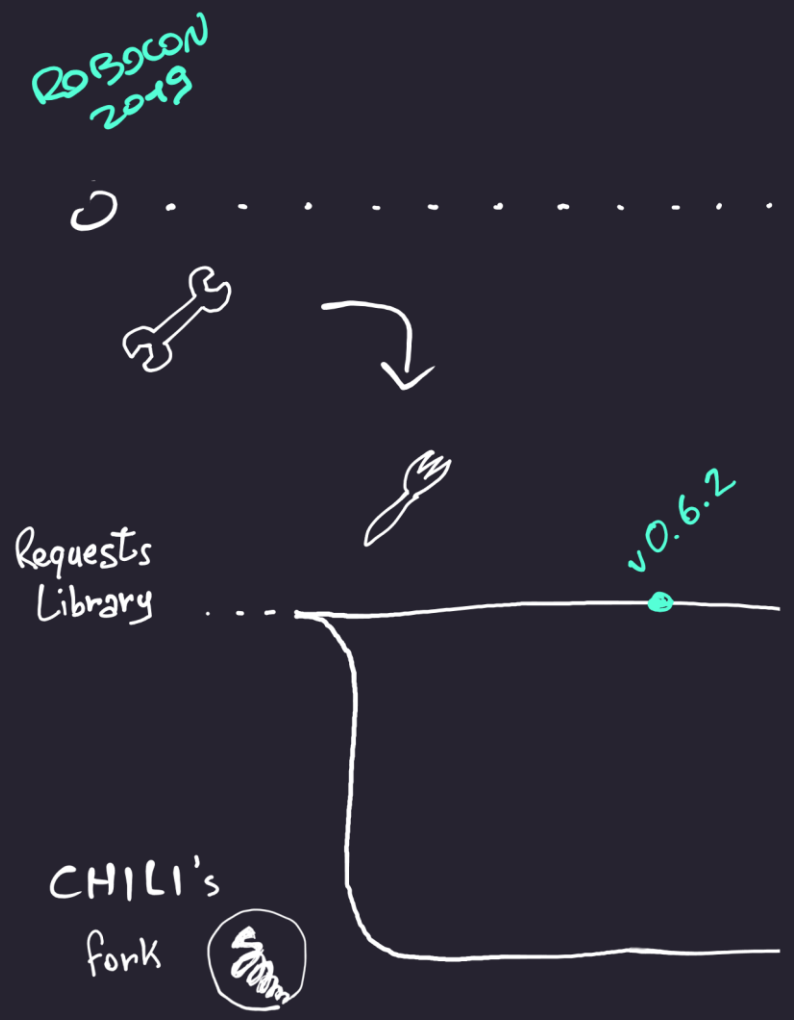
Session exists ×
1
#226 by lucagiove was merged on Sep 26, 2019

Fix Travis CI to work with latest RobotFramework ●
#225 by lucagiove was merged on Sep 26, 2019

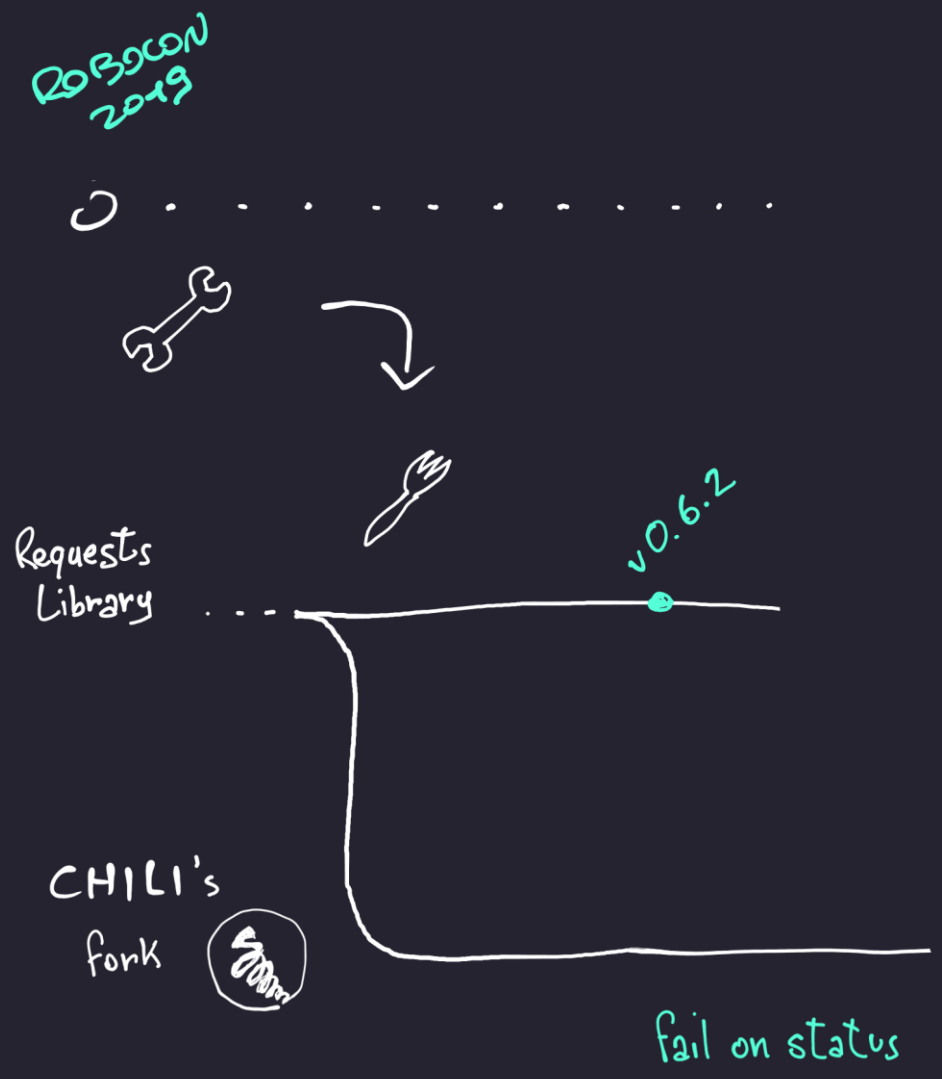
FINALLY MERGED



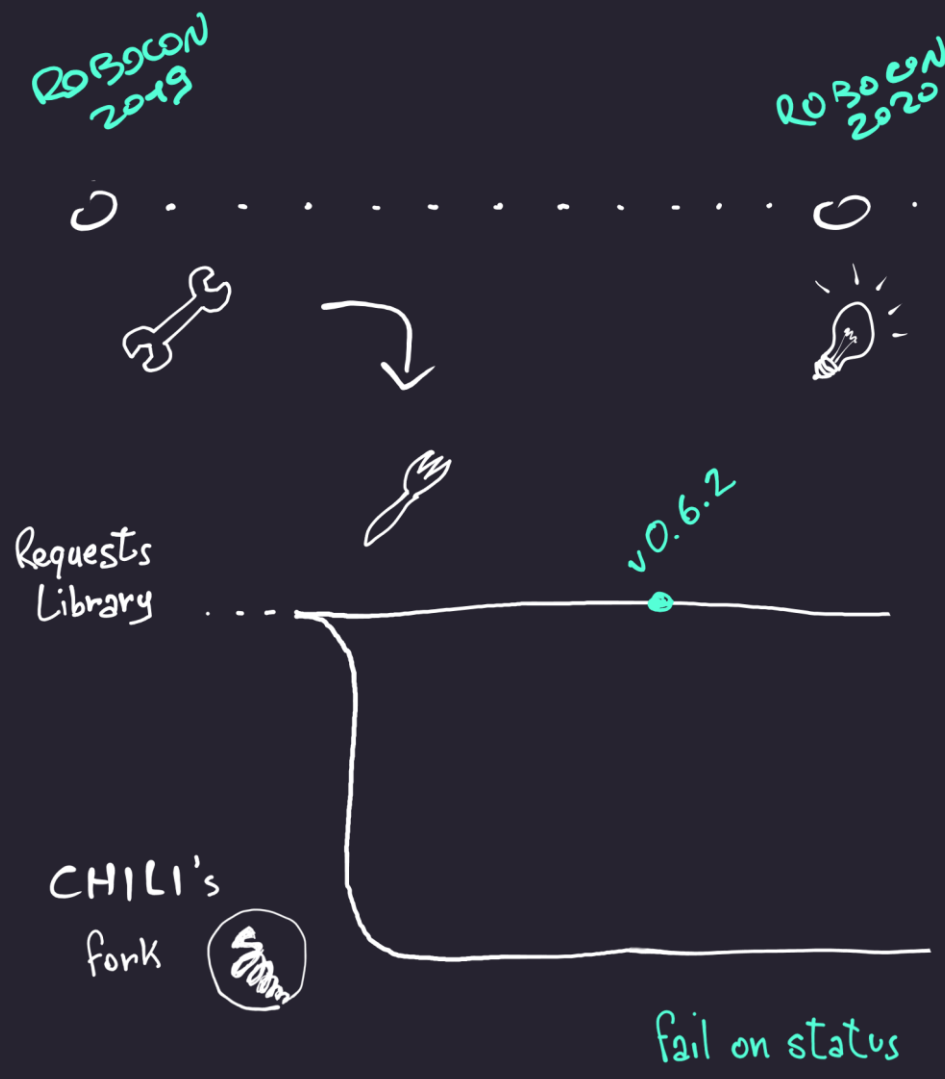
FIRST RELEASE: FIXES AND RETRY



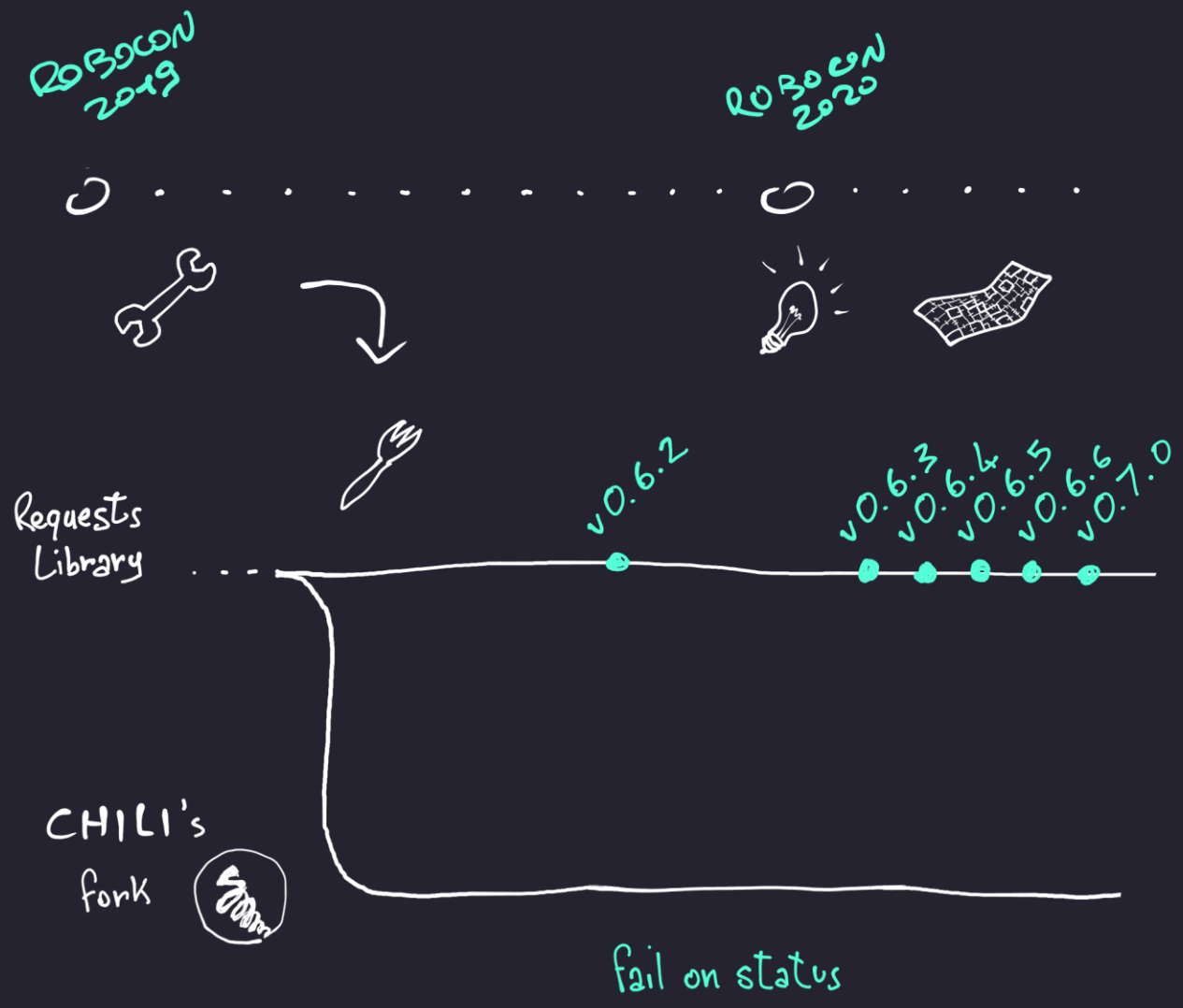
FAIL ON ERROR



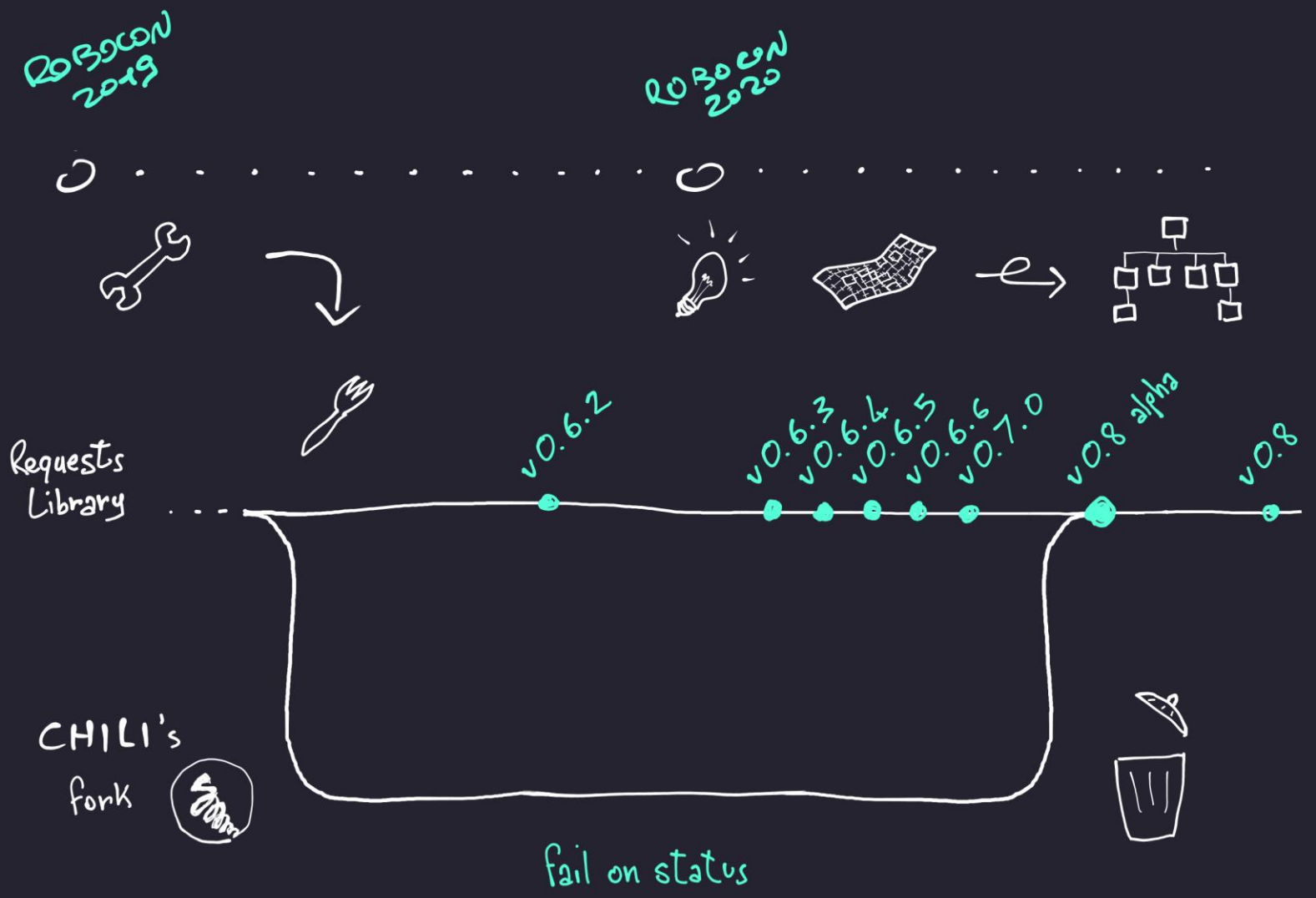
ROBOCON 2020: TALKS AND IDEAS



CODE WAS A PATCHWORK



RADICAL APPROACH: NEW KWORDS STRUCTURE



IMPLICIT ASSERT

```
def raise_for_status(self):                                    [docs]
    """Raises :class:`HTTPError`, if one occurred."""

    http_error_msg = ''
    if isinstance(self.reason, bytes):
        # We attempt to decode utf-8 first because some servers
        # choose to localize their reason strings. If the string
        # isn't utf-8, we fall back to iso-8859-1 for all other
        # encodings. (See PR #3538)
        try:
            reason = self.reason.decode('utf-8')
        except UnicodeDecodeError:
            reason = self.reason.decode('iso-8859-1')
    else:
        reason = self.reason

    if 400 <= self.status_code < 500:
        http_error_msg = u'%s Client Error: %s for url: %s' % (self.status

    elif 500 <= self.status_code < 600:
        http_error_msg = u'%s Server Error: %s for url: %s' % (self.status

    if http_error_msg:
        raise HTTPError(http_error_msg, response=self)
```

BEST PRACTICES AND COMMON PITFALLS

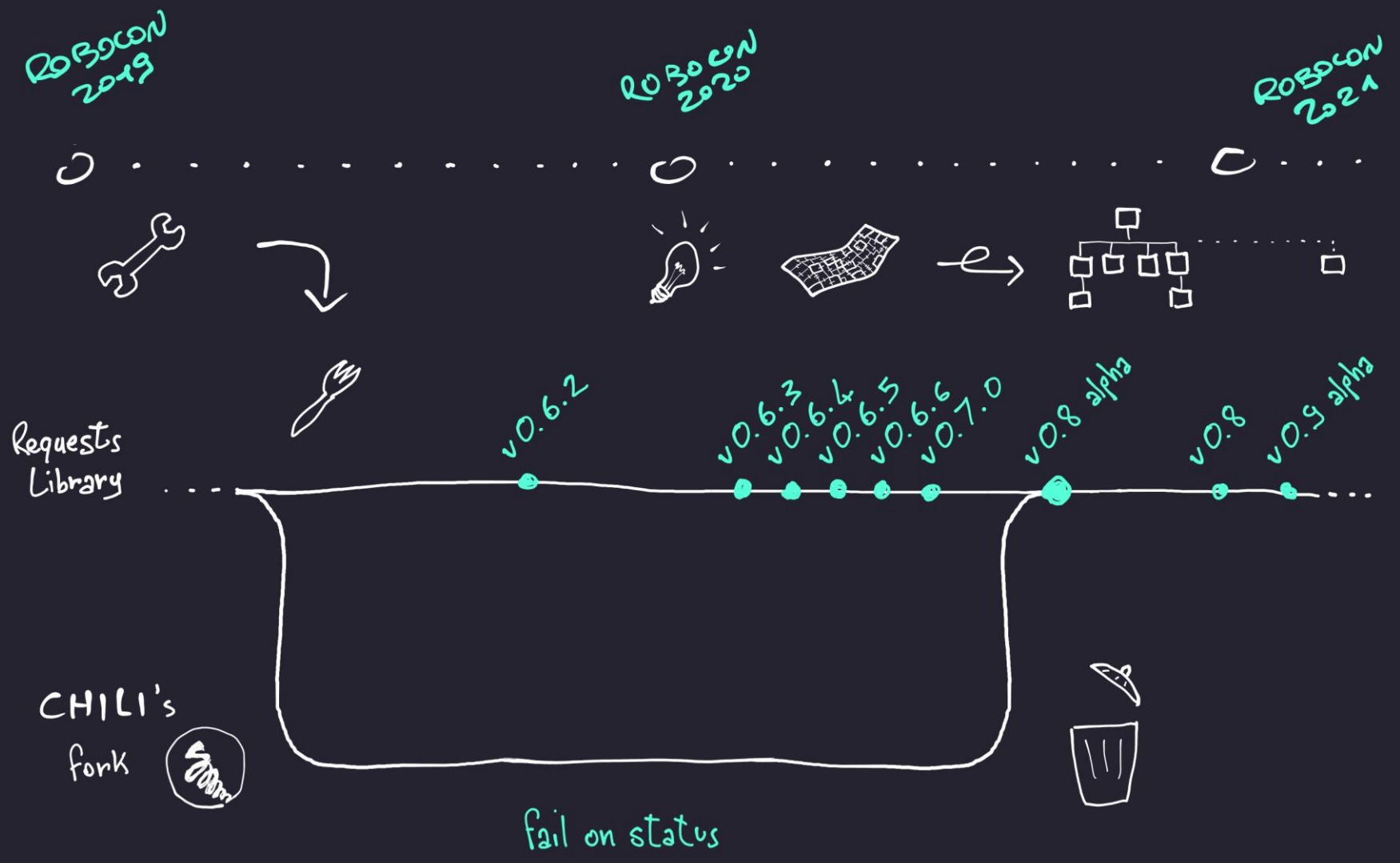
- Embed requests in nested keywords

see an example

- Positional url with = symbol (ex. /endpoint?sort=asc) will fail because of RobotFramework handling with kwargs**

- Wrong named argument won't cause an error because everything is accepted by original requests library with **kwargs

UPCOMING 0.9 VERSION: README



That's ROBOCON 2021

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Robot Framework Foundation