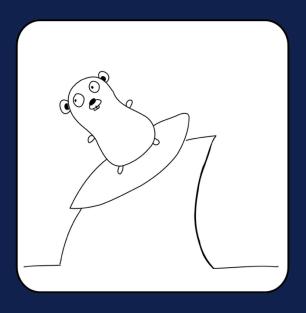


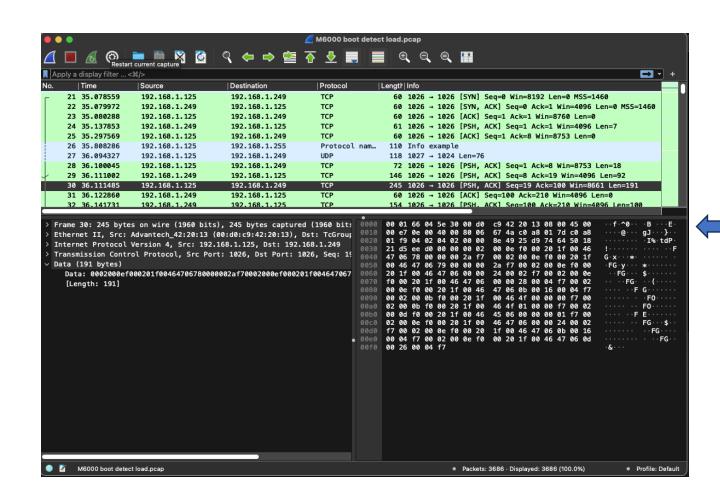
WiregoOne Wireshark plugin to rule them all



Benoît Girard

Q

NETWORK PROTOCOL REVERSE



WIRESHARK





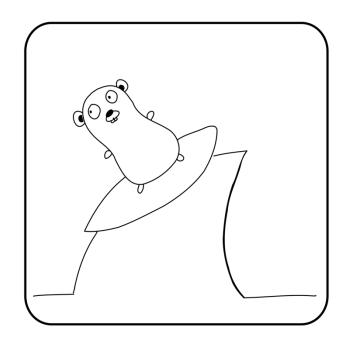
- First release in 1998
- Plugins can be developed in:
 - \circ C
 - o LUA (2006)
 - Python (support removed in 2014)

WIREGO - GOALS



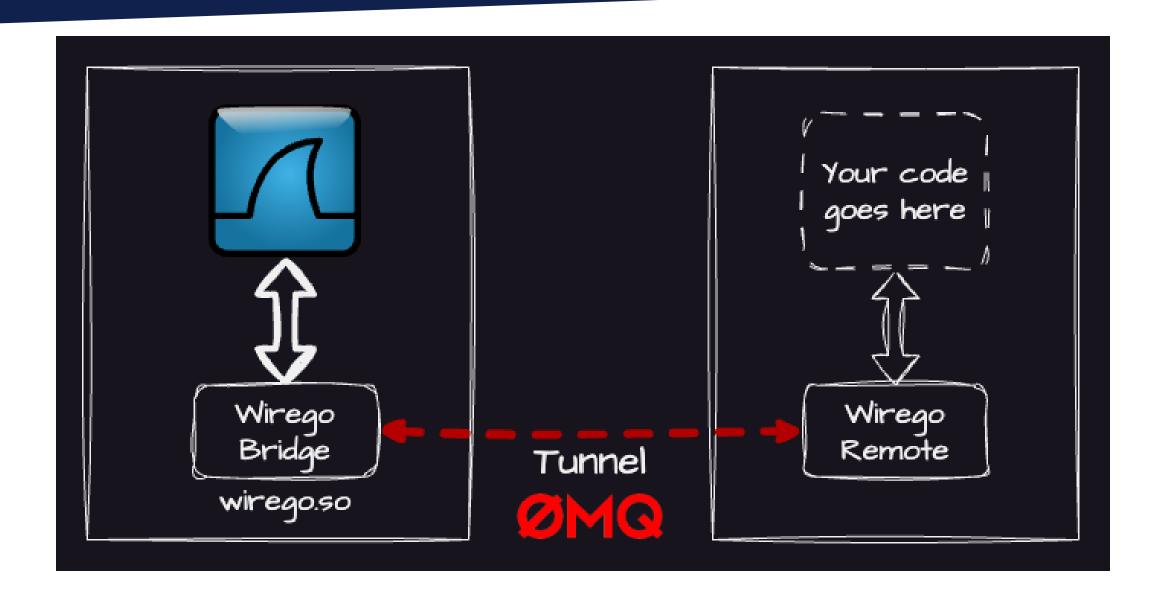
Goals:

- Develop a Wireshark plugin
- In less than 100 code lines
- Without having to build Wireshark
- Without having to read the documentation *
- In any language



WIREGO - ARCHITECTURE





ZEROMQ





- High performance asynchronous communication library
- Available on most platforms
- And most languages

WIREGO - DEMO



Let's develop a Wireshark plugin for a studio recording console (SSL AWS 900)

- On port UDP 50081
- Packets format:

| Offset | Size | Description |
|--------|------|---------------|
| 0 | 4 | Command Code |
| 4 | 4 | DestCode |
| 8 | 4 | Desk Serial |
| 12 | 4 | Remote Serial |
| 16 | | Command Data |



CONCLUSION



- Wirego remote packages are already available for:
 - Go
 - Python
 - Rust (thanks to Tomasz Woszczynski)

| Ressources | |
|---------------|--|
| Project | https://github.com/quarkslab/wirego/ |
| Documentation | https://github.com/quarkslab/wirego/tree/main/doc |
| Examples | https://github.com/quarkslab/wirego/tree/main/wirego_remote/go/examples https://github.com/quarkslab/wirego/tree/main/wirego_remote/python/examples |



Thank you

Contact info:

Email:

bgirard@quarkslab.com

Website:

https://github.com/quarkslab/wirego/





@quarkslab