

Pothos – January 2015 Update

- Release tags
- Users' group
- New documentation
- New features
- Upcoming videos
- Quick demos

The logo for Pothos, featuring the word "Pothos" in a bold, grey, sans-serif font. Each letter is decorated with a small, realistic green leaf icon.

Maint branch and release tags

- **Releases page**
 - <https://github.com/pothosware/pothos/wiki/Releases>
 - <https://pothosware.github.io/pothos/doxygen/>
- **Maint branch**
 - <https://github.com/pothosware/pothos/tree/maint>
- **Pothos v0.1.0**
 - <https://github.com/pothosware/pothos/tree/pothos-0.1.0>
- **SoapySDR v0.1.0**
 - <https://github.com/pothosware/SoapySDR/tree/soapy-sdr-0.1.0>



Pothos Users' Group

- **Links to users' group for sign up and email**
 - <https://github.com/pothosware/pothos/wiki/Support>
 - <https://groups.google.com/d/forum/pothos-users>
 - pothos-users@googlegroups.com



Pothos

New documentation

- **Remote control guide**
 - <https://github.com/pothosware/pothos-library/wiki/RemoteControlGuide>
- **Pothos Utility documentation**
 - <https://github.com/pothosware/pothos-library/wiki/PothosUtilGuide>
- **Scheduler explained**
 - <https://github.com/pothosware/pothos-library/wiki/SchedulerExplained>
- **Coding guide: Advanced scheduling**
 - <https://github.com/pothosware/pothos-library/wiki/BlocksCodingGuide#advanced-scheduling>



Pothos

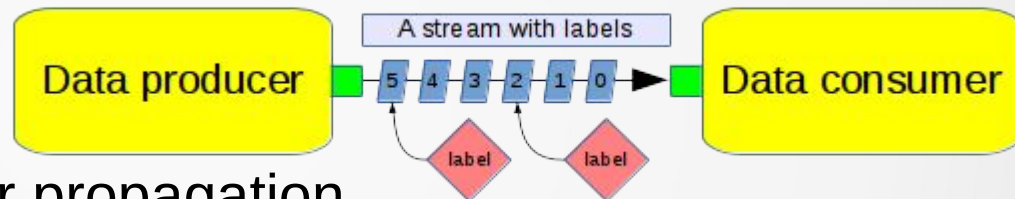
New features and API changes

- **Topology automation and benchmarking**

- JSON topology
- JSON stats

- **Labels API**

- Width field
- Convenience function for propagation

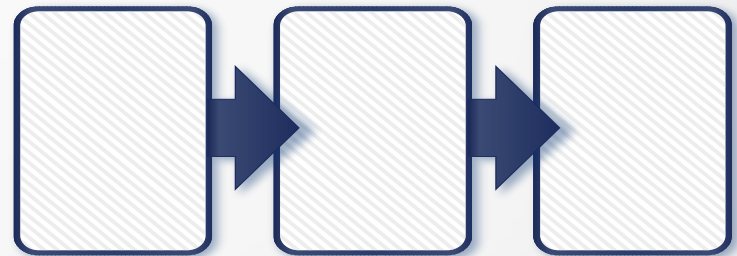


- **Pothos Zynq toolkit**

- Userspace driver and kernel module
- Zero copy DMA source and sink blocks
- <https://github.com/pothosware/pothos-zynq/wiki>

New digital and packet blocks

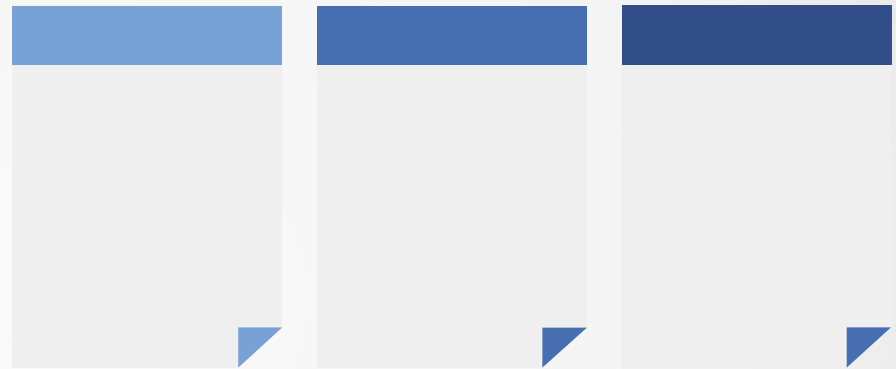
- FIR designer RRC and Gaussian filters
- Symbol mapping/slicing
- Byte to bit to symbols conversions
- Differential encoding/decoding
- Packet framer/correlator
- Scrambler/descrambler
- Simple MAC protocol block
- Chat box GUI widget



Upcoming videos

- **Scheduler Explained**

- Slide style video
- Actor model implementation
- Threading, queues, resources
- Work handling and stimulus
- Advanced buffer features



- **Communication layer demo**

- Screencast style video
- PHY - DMPSK, signal conditioning
- MAC - use of packets and messages
- 100% within Pothos GUI

And some quick demos

- Transmit QPSK
- Chat box demo

Thanks for watching

- Find a copy of this presentation and all of its links:
<http://www.joshknows.com/blog>

Pothos