The MacPorts Project

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Short History of MacPorts

- originally internal project at Apple
- started in 2002
- with former name *DarwinPorts*
- as part of the OpenDarwin project

- since 2006 renamed to MacPorts
- hosted at Mac OS Forge at Apple
Milestones of MacPorts

- Support of universal binaries
  - helpful during PowerPC to x86 transition

- BuildBot infrastructure
  - Automatic tests of ports

- Distribution of binary archives
  - when licenses allow distribution

- Worldwide mirror network
OS X Support

- MacPorts targets multiple versions of OS X
  - OS X 10.11 El Capitan
  - OS X 10.10 Yosemite
  - OS X 10.9 Mavericks

- still works on legacy versions back to OS X 10.4 Tiger
Statistics

- over 200 contributors with commit access
  - many more providing feedback and patches

- ~19,000 ports in official ports tree
  - including subports, multiple versions, ...
Sponsored Contributions

- Google Summer of Code
  - annual program sponsoring students to work for open source projects
  - participation from 2007 to 2015
    - not accepted 2012
    - not applied 2016
Google Summer of Code: Achievements

- ~20 students
  - many left project afterwards

- Merged/Released
  - privilege separation
  - logging
  - rev-upgrade
  - automatic Portfile generation
  - testing
  - ...

Google Summer of Code: Work in Progress

- Unreleased/unfinished
  - MacPorts.framework
  - GUI
  - Statistics (see port:mpstats)
  - Configuration file updates
  - Interactive `port` command
  - Cleanup/reclaiming disk space
  - Dependency resolution using libsolv
Future of MacPorts: Community

- First MacPorts Meeting!

- Inclusion of new contributors
- Communication
  - modern replacements for/additions to mailing list and IRC
- Co-maintainence of ports
Future of MacPorts: Development

- Development: base
  - Defining milestones for new releases
  - Merging feature branches
  - New features
    - automatic port testing
    - bug reporter integration with log submission/parsing
    - compiler wrappers
    - ...

- Development: ports
  - enhance Portfile generation
  - declarative syntax enhancements
  - variants vs. choices
  - ...

- Reproducible Builds
Future of MacPorts: Infrastructure

- Upcoming changes to Hosting and Infrastructure
Future of MacPorts: Organization

- Forming a legal entity
  - Funding of infrastructure and future meetings
Future of MacPorts: Discussion?