

10 Years of POCO C++ Libraries

Tales of the Underdog

Günter Obiltschnig

Founder, POCO C++ Libraries & macchina.io

Applied Informatics Software Engineering GmbH

guenter@appinf.com | [@obiltschnig](https://twitter.com/obiltschnig)

*“Java sounds the
death knell for C++”*

Kelvin Nilsen, back in 2005

POCO

C++ LIBRARIES

<http://pocoproject.org>

<https://github.com/pocoproject>

"Without a good library, most interesting tasks are hard to do in C++; but given a good library, almost any task can be made easy."

Bjarne Stroustrup

Application

NetSSL

Crypto

Tools, Utilities and additional Libraries

Net

Util

Data

XML

JSON

Zip

SQLite

ODBC

MySQL

Foundation

C++ and C Standard Libraries

POSIX, WIN32, other (RT)OS API

10 years

3000K

lines of code

10000 +

classes

30-50

GitHub Unique Cloners/Day

12660

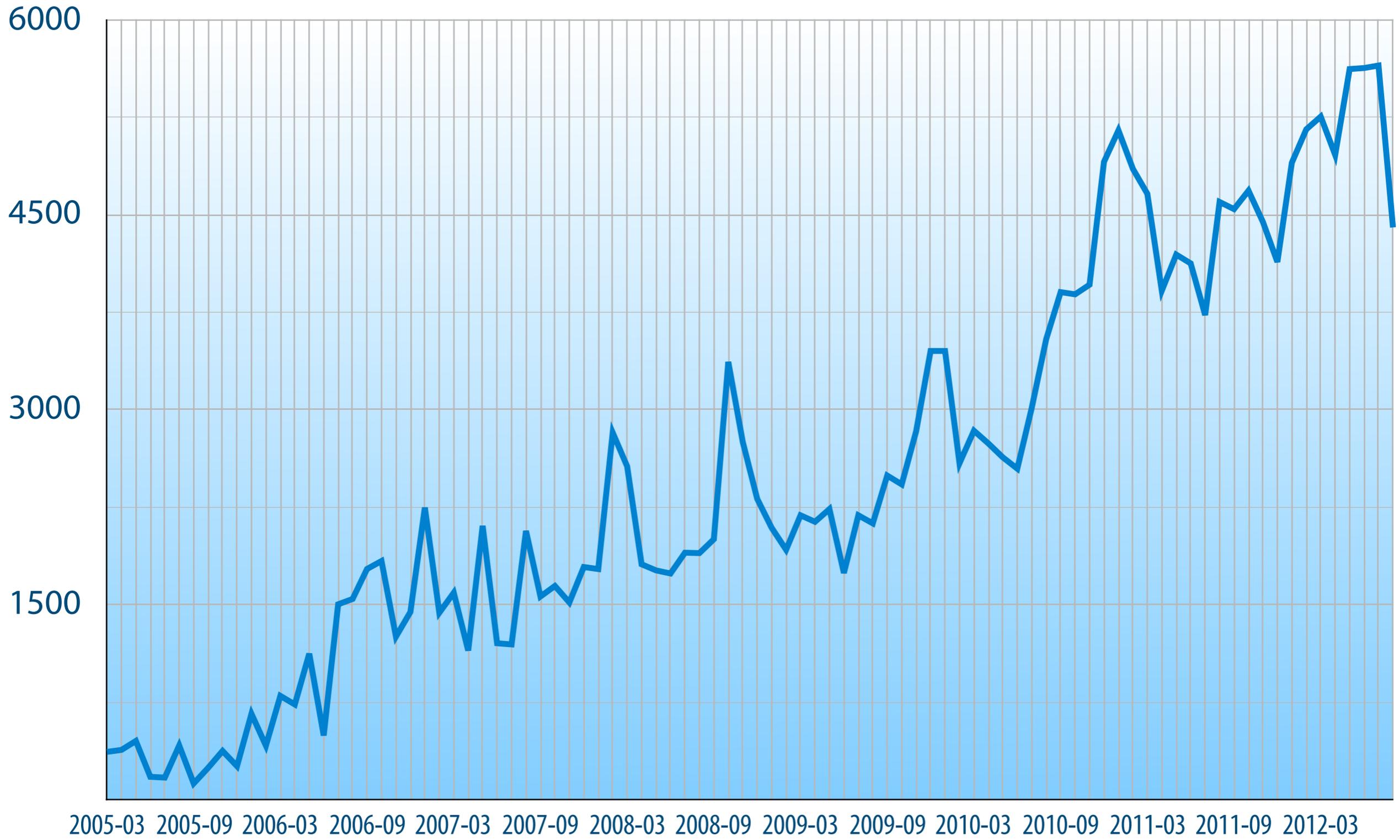
GitHub Stars

472

GitHub Forks

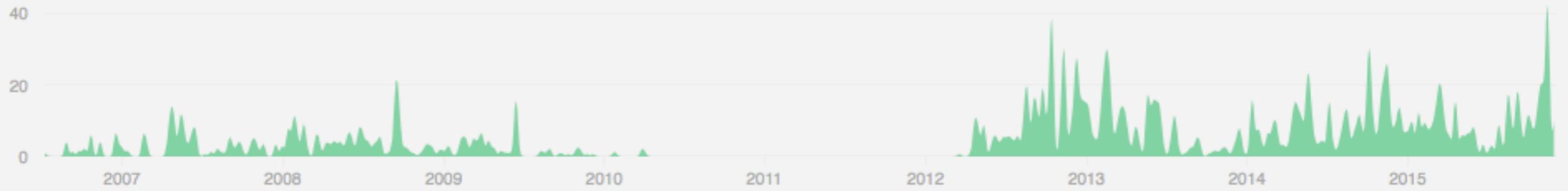
~ 1000

Contributors



Monthly Downloads (before GitHub)

Contributions



↑
GitHub

History & Milestones



08.2004

project started

06.2006

boost license, new website

05.2006

> 1000 downloads/month

02.2005

first release on sourceforge

01.2006

release 1.0

11.2006

first major commercial user (> 100 devs)

03.2005

first contributor

03.2006

release 1.1
applied informatics founded

History & Milestones

05.2012

joined wg21
> 5500 downloads/month

01.2007

> 2000 downloads/month

12.2010

release 1.4

12.2015

work on 1.7, C++1x

05.2007

relese 1.3

01.2011

> 5000 downloads/month

12.2008

bjarne mentions poco in interview

11.2012

move to GitHub



What I Did

- > Create something I want to use
- > Host it on Sourceforge (02/2005)
- > Choose the right license (Boost Software License)
- > Get lucky and find a contributor (Alex, 03/2005)
- > Get even more lucky and find a paying customer (2006)
- > Consistent high quality work
- > Make it easy for new users to get started



The project hosting
platform matters.

- > Get more contributors
- > Get more paying customers
- > Put out high-quality releases
- > Rinse, repeat...

“Benevolent Dictator”

- > Two project leads (Günter and Alex)
- > Someone in charge is always available
- > Monthly Skype calls
- > Annual face-to-face meetings

Challenges

- Documentation
- Maintaining quality with growing number of contributors
- Continuous Integration with a cross-platform source code
- Too many build configurations (48 on Windows alone)
- Coding style (need a tool)
- “Fire-and-forget” contributions
- Staying motivated
- Marketing
- Financing

Continuous Integration

> TeamCity

- > hosted at Applied Informatics

- > builds Windows (VS2008 - 2015), Windows Embedded Compact 2013, OS X, Linux, Embedded Linux (12 configs)

- > runs test suites (except embedded targets)

> Travis

- > builds Linux (including ARM cross build), runs test suites

- > "first line of defense"

> AppVeyor

- > builds Windows (test suites coming soon)

Doing It All Again...



A modular open source toolkit for building embedded IoT applications that connect sensors, devices and cloud services.

Follow me...

@obiltschnig

@pocoproject

@macchina_io

guenter@appinf.com

pocoproject.org | macchina.io