



ReactOS

ReactOS

Une alternative libre et
gratuite à Windows

About the speaker

- Pierre Schweitzer:
 - pierre@reactos.org, @HeisSpiter
 - ReactOS Developer since November 2007
 - ReactOS sysadmin & netadmin since July 2011
 - Using nicknames: Heis Spiter, pschweitzer
 - GPG: 0x3D585B0B

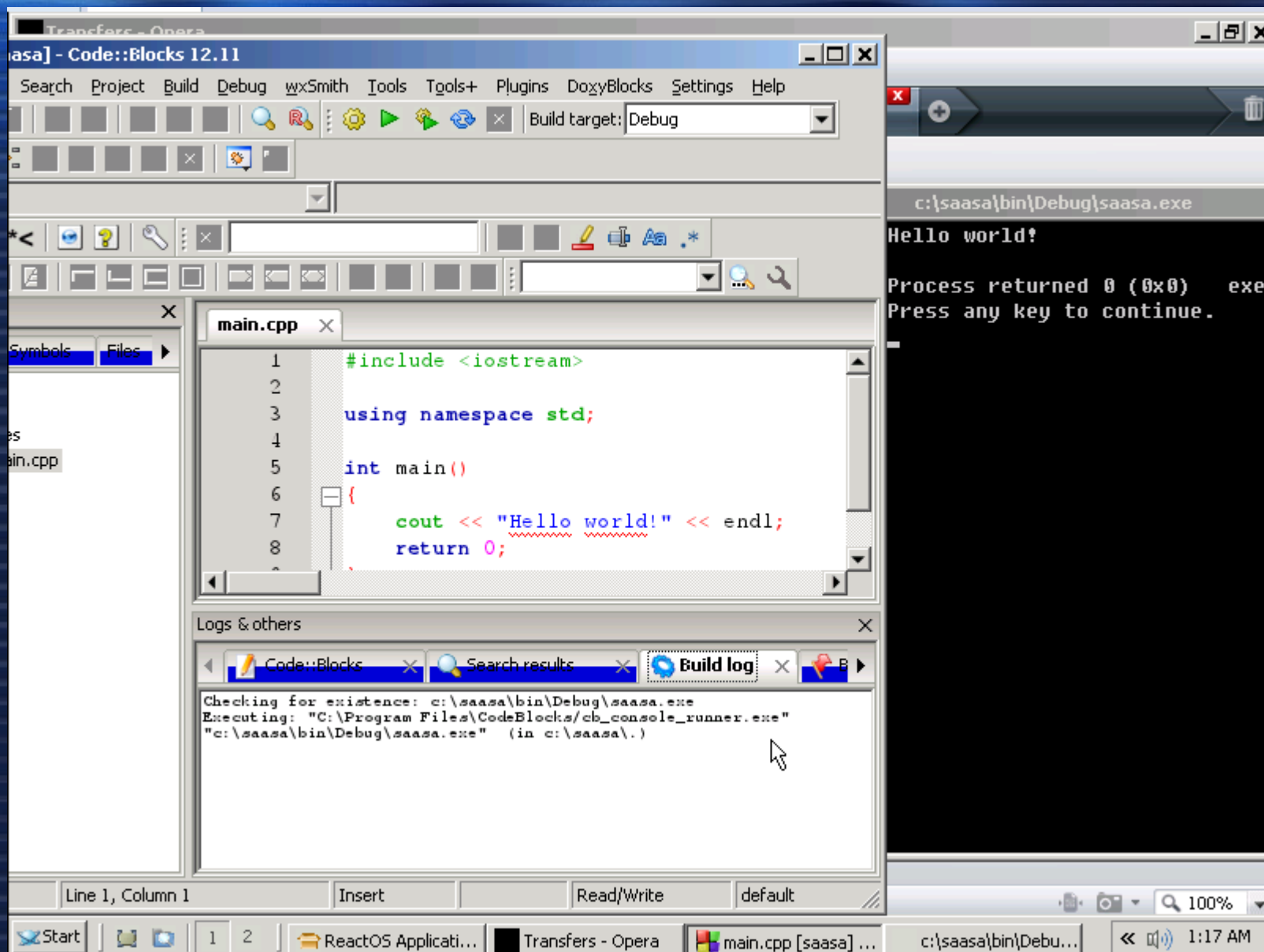


What is ReactOS?

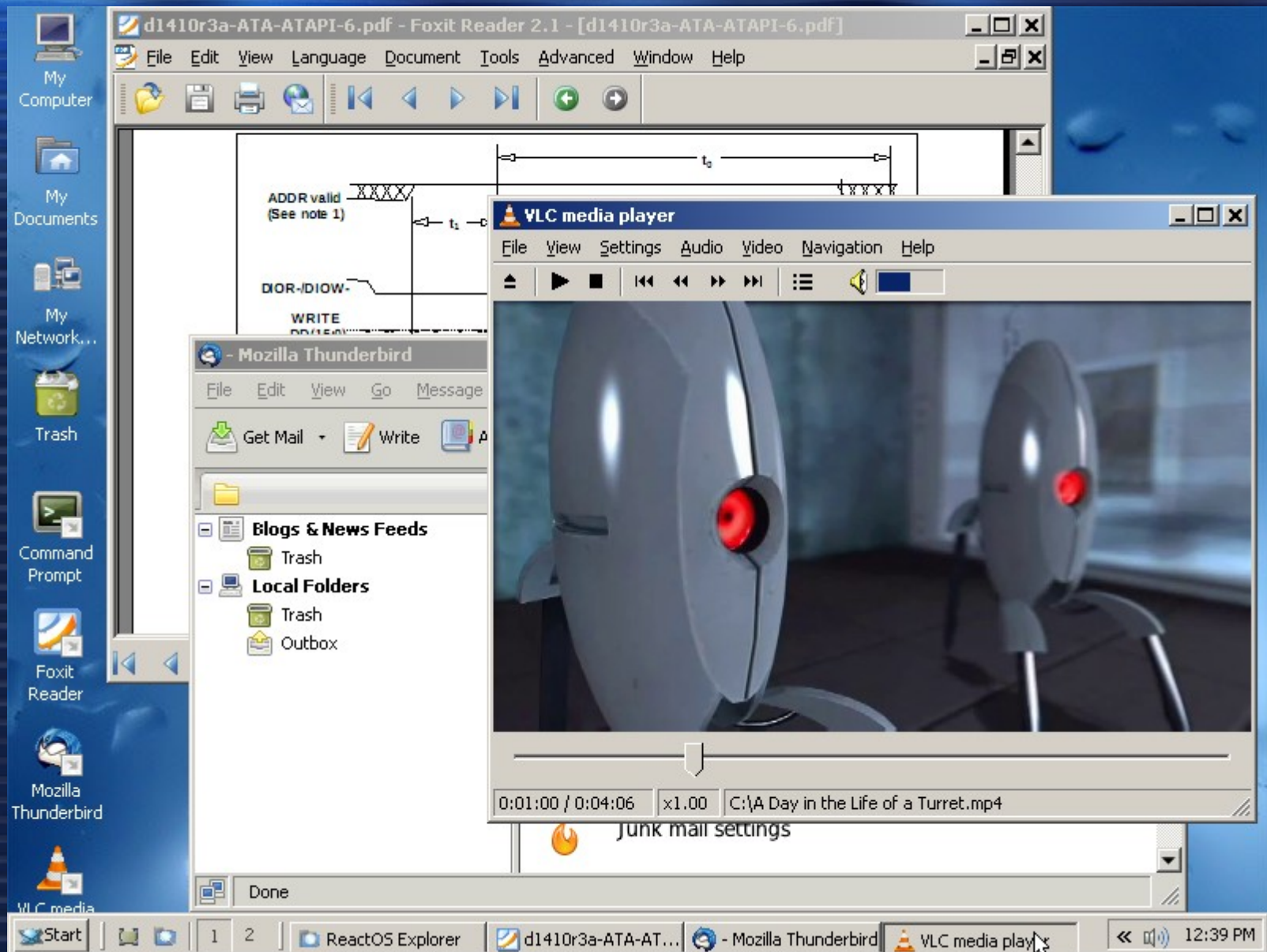
- Free & Open Source Operating System
 - <https://www.reactos.org>
- Reimplementing the Windows API
 - Aiming Windows 2k3 compatibility
- Latest release: 0.3.16
- Alpha stage



One Picture



A Second one



Purposes of ReactOS?

- Free Windows!
- Want to look at code?
- Have to stay on an old maintained Windows?
- Want to modify your own Windows?

Collaboration with FOSS world

- Using Wine code
- Cross-compilation with MinGW-w64
- Usage of CMake, ninja, and so on

Collaboration with Wine

- Usage of their DLLs
- But also of their compilation tools
- Usage of their tests
- We provide patches & bugs



ReactOS is not Wine

- Kernel implementation
- Drivers implementation
- Support of Windows drivers
- No need for Linux



Development process

- Usage of tests (Wine, home-made)
- Usage of documentation (MSDN)
- Usage of books (Windows Internals, ...)
- Usage of others findings

Current status

- Architectures: x86, (AMD64, ARM7)
- Networking, basic sound, basic USB
- Some drivers for Windows reported to work
- Lack of proper Memory Manager

Actively worked parts

- Ntvdm: 16 bits on Windows!
- Shell: rewrite of our old shell (explorer)
 - We have a half-time paid dev
- USB
- File system

Perception for end-users

- Several key apps working
- Firefox, 7z, even games!
- Unstable though
- <http://reactos.reactos.org>

Some dates...

- Project exists since 1998!
 - In 1996, it was FreeWin95
- 2004, 0.2 released. Comes with GUI
- 2006, 0.3 released. Comes with network
- 2009, 0.3.9 released. Sound!
- 2013, 0.3.15 released. USB!

Some digits...

- More than 230k downloads for 0.3.16
 - Was released in February 2014
- Over the year:
 - More than 3400 commits
 - More than 20 committers
- Around 5 millions LoC (trunk)
- Around 10 millions tests

Dark side!

- Several builders
- Several testbots
- Infrastructure of 6 servers (+ Vms)
- ReactOS Foundation & ReactOS Deutschland e.V.
- 1 half-time paid developer

ReactOS CE

- Community Edition
- Founded via IndieGoGo
- Will bring ReactOS to 0.4
- With priorities defined by the community

We need...

- Testers
- Developers
 - GUI, kernel, drivers, DLLs, everywhere!
- Translators
- Propose, we're likely to need you
- Money...

Join us!

- Website: <https://www.reactos.org>
- IRC: #reactos on Freenode
- Mailing-list: ros-dev@reactos.org
- We enjoy new people :-)



Demonstration

Questions?