

Как студенту получить первый реальный
опыт работы в крупном проекте на
примере ReactOS?

Речицкий А.С., Брагин А.В.



Об авторах

- Александр Речицкий
 - Активный участник СПО с 2008 года
 - блогер, евангелист свободного ПО, испытатель-тестировщик
 - Преподаватель АНО ДПО компьютерная «Академия Тор»
- Алексей Брагин, aleksey@reactos.org
 - Активный участник СПО с 2000 г.
 - 10+ лет разработки и руководства ReactOS
 - Преподаватель в МГТУ им. Н.Э.Баумана
 - Научный руководитель НИРС



Как разработчику прокачаться?



ReactOS – “открытый Windows”

- ReactOS – открытая ОС на основе архитектуры Windows NT, совместимость с драйверами и программами
- Написана «с нуля» (не Linux, не BSD)
- Международный (как и Linux), все еще независимый проект
- 13 миллионов строк кода
- 20-40 активных разработчиков ежемесячно



- My Computer
- My Documents
- My Network Places
- Recycle Bin
- Applications Manager
- Command Prompt
- Read Me

ReactOS Applications Manager

File Programs Help

firefox

Available for installation

- Audio
- Video
- Graphics
- Games & Fun
- Internet & Network
- Office
- Development
- Edutainment
- Engineering
- Finance
- Science
- Tools
- Drivers

Name	Version	Description
<input type="checkbox"/> Adobe Flash Player 29 NPAPI Plugin	29.0.0.171	Flash Player plugin
<input type="checkbox"/> Mozilla Firefox 28	28.0	A popular Web bro
<input type="checkbox"/> Mozilla Firefox 3.6		
<input type="checkbox"/> Mozilla Firefox 48		

Welcome to ReactOS Applications Manager!
Choose a category on the left, then choose an application to install.
ReactOS Web Site: <http://www.reactos.org>

Applications count: 4; Selected: 0

Downloading Mozilla Firefox 48...

98% — 42.6 MB / 43.0 MB

[https://ftp.mozilla.org/pub/firefox/releases/48.0.2/win32/en-US/Firefox Setup 48.0.2.exe](https://ftp.mozilla.org/pub/firefox/releases/48.0.2/win32/en-US/Firefox%20Setup%2048.0.2.exe)

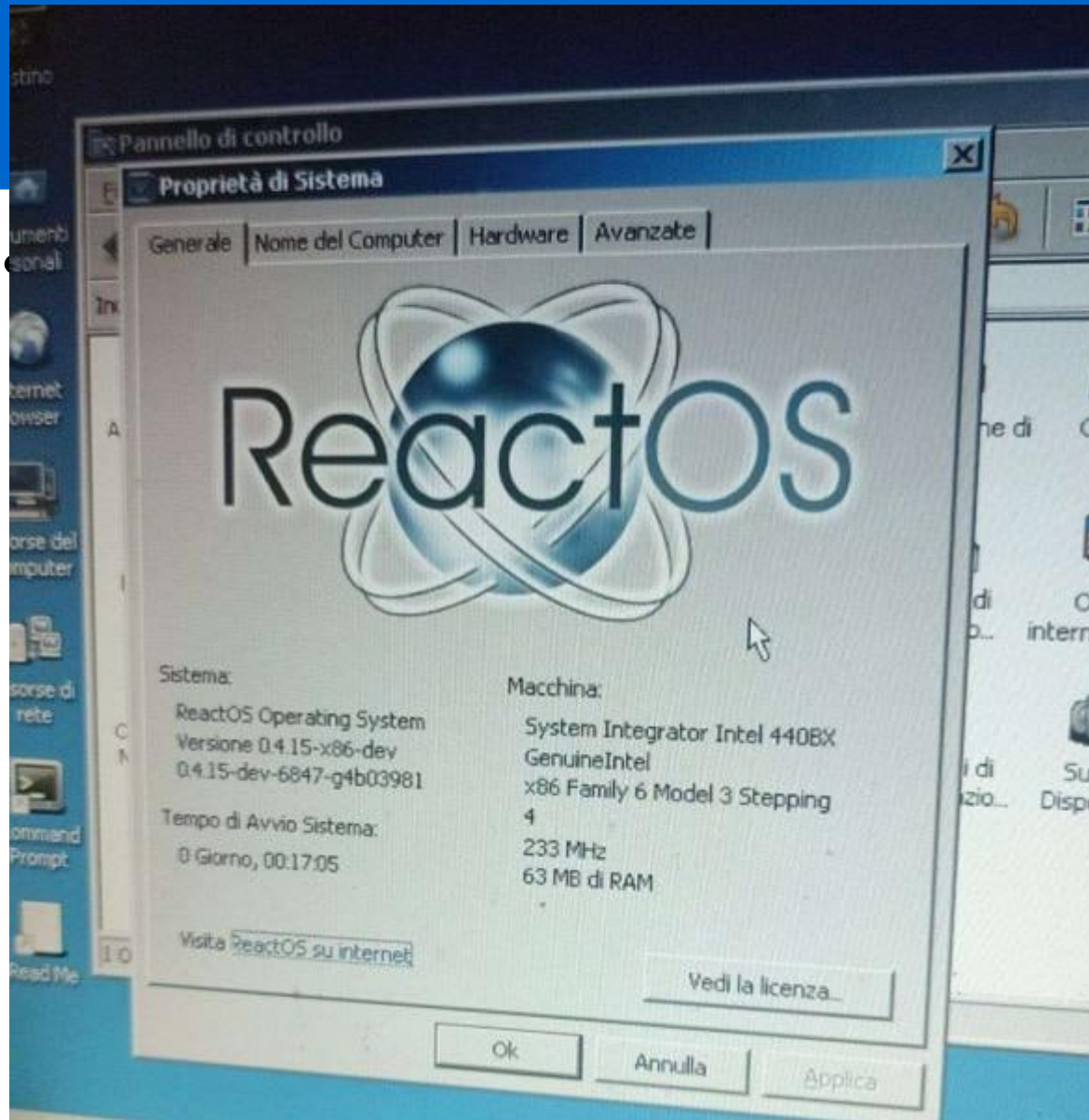
Cancel

Mozilla Firefox 48	Downloading...
--------------------	----------------

ReactOS Version 0.4.14-dev
Build 20191001-0.4.14-dev-1-g2f735f560.GNU_4.7.2
Reporting NT 5.2 (Build 3790: Service Pack 2)
C:\ReactOS



На чем запускается?



CPU класса Pentium 2 с SSE
64 mb RAM
1 gb HDD

интуитивный интерфейс
и паттерны пользователя



Идеальная песочница

Стандарты оформления кода:

В проекте ReactOS принято придерживаться единого стиля, что помогает сделать код читаемым и понятным для всех участников.

Командное взаимодействие:

Рабочий процесс в ReactOS организован через открытые каналы коммуникации (например, чаты на Mattermost или Discord, рассылки и баг-трекеры).



Ищем точки входа

DEVELOPMENT

ReactOS Builds
Report a Bug
Testman
Wiki

GET IN TOUCH

Chat
Forum
Mailing Lists

Официальный сайт
Форум
Чат
Соцсети
Гитхаб
Выставки
Хакатоны



COLLABORATING

Contact others and solve problems together.

Events | [People of ReactOS](#) | [Contributors](#) | [Mattermost Chat](#) | [Mailing Lists](#) | [Mumble](#) |
[Forums](#) | [Driver Signing \(obsolete\)](#) | [Google Summer of Code](#)



Вся жизнь проекта в чате :)

Browser address bar: <https://chat.reactos.org/reactos/channels/development>

Channels sidebar:

- ReactOS ▾
- Find channel
- More unreads
- CLT 2025
- Development
- FOSDEM
- Hackfest
- Infrastructure
- L33t Island
- Meeting
- Off-Topic
- RosBE
- Russian / Русский
- Town Square
- Add channels

Development channel header:

Development ▾ ☆

657 13 ReactOS Development Channel, bridged to #development:reactos.org on Matrix | ReactOS 0.4.14 is out! Please c

Messages:

Timo Kreuzer 00:51
Commented on **Daniel Victor**'s message: <https://github.com/reactos/reactos/pull/7637>
Sure
👍 1

roytam1 02:43
windows uses IconServiceLib to decode PNG images (IDAing Win7's user32 shows that) IconCodecService.dll (which IconServiceLib registry entry points to) loads WIC

Oleg Dubinskiy 14:38
Hi guys.
I have recently sent my setupapi fixes in <https://github.com/reactos/reactos/pull/7703>
PR. Could anybody review it please?
Thanks. *Edited*

GitHub
[\[SETUPAPI\] Fix wrong registry key created by SetupDiCreateDeviceInterfaceRegKeyW\(\) by oleg-du...](#)
Purpose: The function should create/open "Device Parameters" subkey of a device reference key (and

Write to Development

Rich text editor: B I U H Link Code Quote List Bulleted List Help



Хакфесты и митапы



Хакфесты и митапы



Hackfest

There have been several ReactOS Hackfests

- ReactOS Hackfest 2019
- ReactOS Hackfest 2018
- ReactOS Hackfest 2017
- ReactOS Hackfest 2015

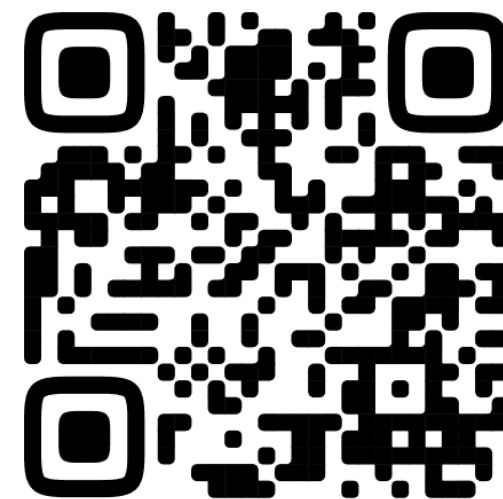


Google Summer of Code

- [Google Summer of Code 2022](#)
- [Google Summer of Code 2021](#) (accepted)
- [Google Summer of Code 2020](#) (accepted)
- [Google Summer of Code 2019](#) (accepted)
- [Google Summer of Code 2018](#) (accepted)
- [Google Summer of Code 2017](#) (accepted)
- [Google Summer of Code 2016](#) (accepted)
- [Google Summer of Code 2015](#)
- [Google Summer of Code 2014](#)
- [Google Summer of Code 2013](#)
- [Google Summer of Code 2012](#)
- [Google Summer of Code 2011](#) (accepted)
- [Google Summer of Code 2010](#)
- [Google Summer of Code 2009](#)
- [Google Summer of Code 2007](#)
- [Google Summer of Code 2006](#) (accepted)

Contents [hide]

- 1 Your Own Idea!
- 2 Networking
 - 2.1 NDIS Miniport Drivers for Common Network Cards
 - 2.2 Fundamental WiFi components
 - 2.3 Automatic Proxy Configuration
 - 2.4 Windows Remote Management
 - 2.5 Integrating SMB into ReactOS
 - 2.6 Terminal Services
- 3 Storage
 - 3.1 Plug and Play (PnP) Storage Stack
- 4 Audio/Video
 - 4.1 Get video drivers from AMD/ATI/NVIDIA running stable
 - 4.2 Intel High Definition Audio Bus Driver
 - 4.3 Audio Mixer
- 5 Durability
 - 5.1 Kernel mode test suite
 - 5.2 Win32k test suite
- 6 System Enhancements
 - 6.1 UI Automation API
 - 6.2 Search Shell extension
 - 6.3 Applications Manager Rapps
 - 6.4 Paravirtualization Support
 - 6.5 NT6 recycle bin support
 - 6.6 WebKit-based MSHTML implementation



А что еще и денег заплатят?

[ABOUT](#) ▾[NEWS](#) ▾[COMMUNITY](#) ▾[DEVELOPMENT](#) ▾[DONATE](#)[DOWNLOAD](#)

Localization is fundamental for an operating system to be used by many users around the globe where English is not their mother tongue. If there's a language that ReactOS is not currently translated in or you like to improve the current existing translation in the operating system [please take a look at the following article at how to begin translating ReactOS](#).

Paid jobs

While ReactOS is an open-source project mostly driven by volunteers, we know that some tasks could profit from having a paid developer look at them.

[ReactOS Deutschland e.V.](#), the non-profit organization supporting the ReactOS Project, has been collecting [donations](#) for this purpose and supports several models for paid development:

- **Scholarships**

Interested students with a proven track record of working on ReactOS can be granted a monthly scholarship (which is tax-free in many countries). This requires enrollment at a university but hardly any paperwork.

- **Contracted work**

Freelancers able to invoice ReactOS Deutschland e.V. can be contracted for individual work that benefits the project. This requires a proven track record of working on ReactOS-related topics as well as a detailed proposal.

Разработчики ядра
Разработчики
приложений
Тестировщики
Веб-разработчики
Переводчики
Технические писатели
Контент-мейкеры
Комьюнити менеджеры
Jira-мейнтейнеры



Полезные ссылки



- <https://www.youtube.com/@abragin/playlists>

Старый и новый видеокурсы лекций по архитектуре операционных систем Алексея Брагина

reactos.org

