

```
...ob.modifiers.new("
t to mirror_ob
rrior_object = mirror_ob

MIRROR_X":
_x = True
_y = False
_z = False
"MIRROR_Y":
_x = False
_y = True
_z = False
"MIRROR_Z":
_x = False
_y = False
_z = True

the end -add back the dese
1
=1
objects.active = modifier_
str(modifier_ob) # modi
ect = 0
.selected_objects[0]
one.name].select = 1

select exactly two objects.

CLASSES -----

or):
to the selected object""
mirror_x"
```

EU-FOSSA 2

OSS workshop in the European Parliament



Marek Przybyszewski

May 16, 2019



The EU-FOSSA journey



EU-FOSSA
(2015-2016)

€ 1 M

EU-FOSSA 2
(2017-2019)

€ 2.6M



The pilot project

- Inventory of FOSS used at the EC
- Public survey
- Formal code reviews



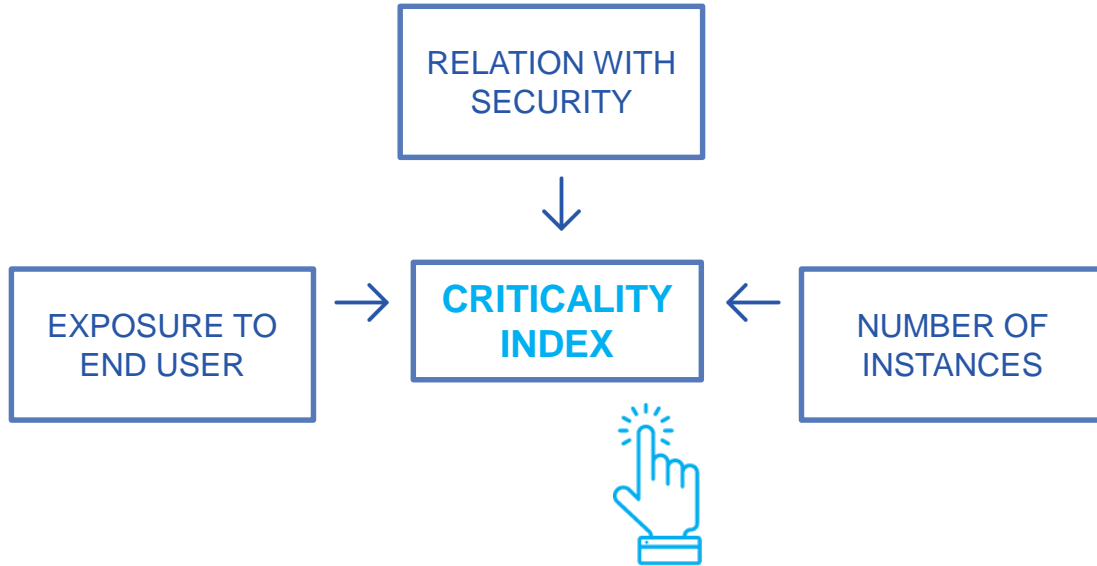
Lessons learned



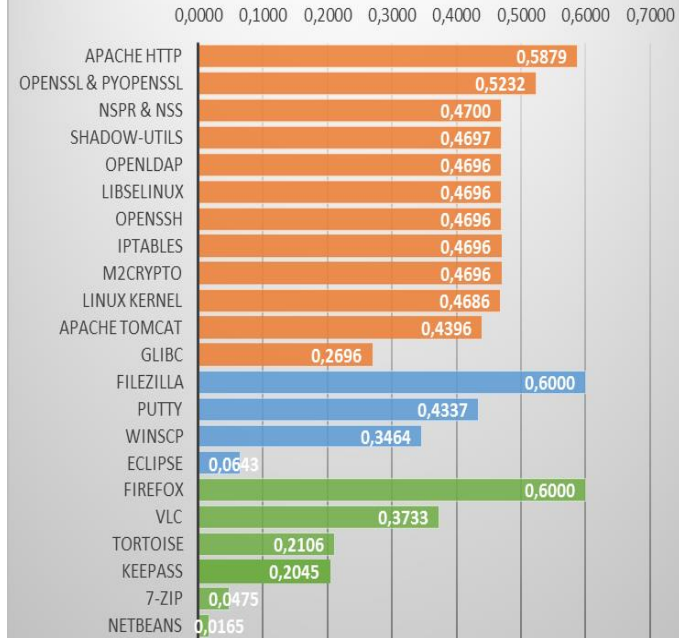
- Methodology works and code reviews useful (but...)
- What about fixing bugs?
- Improve cooperation with communities



OSS criticality ranking

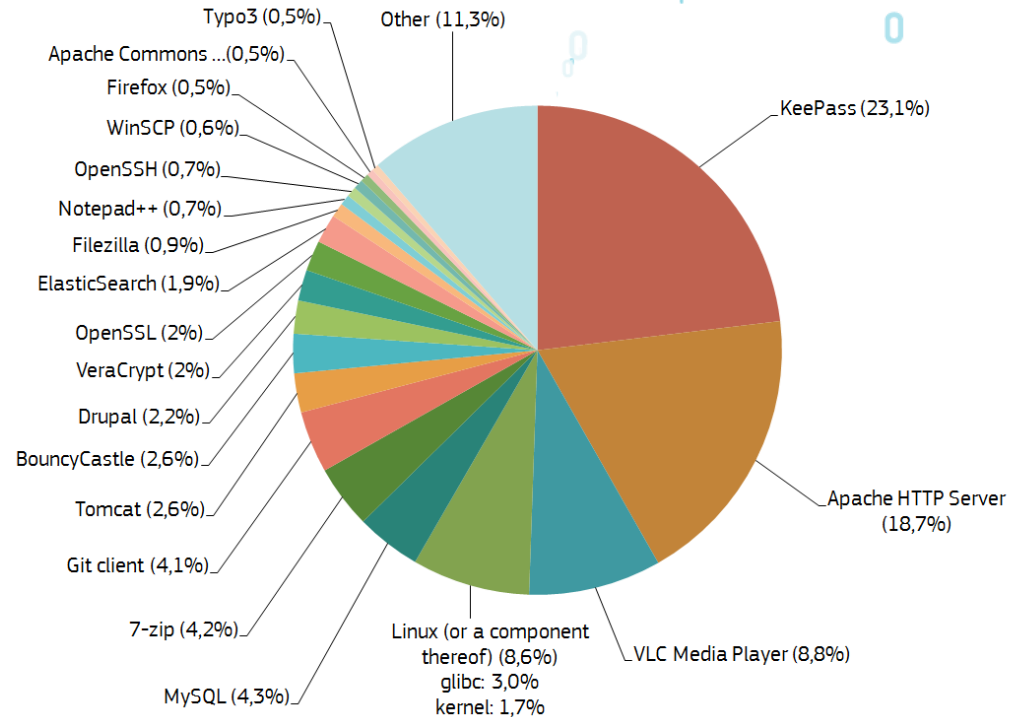


OSS criticality ranking - shortlist



Public survey

- June 2016
- 3.282 participants
- Top 3
 - KeePass 23.1%
 - Apache HTTP Server 18.7%
 - VLC Media Player 8.8%





For EU-FOSSA 2 we set out to...

- Increase the scope
- Launch 15 Bug Bounties
- Organize 3 Hackathons
- Fix already known bugs
- Work in closer cooperation with developer communities
- Develop a communication strategy




```
object to mirror_ob
    _ob.modifiers.new("mirror")
    _ob.mirror_object = mirror_ob
    _ob.name = "MIRROR_X":
    _ob.use_x = True
    _ob.use_y = False
    _ob.use_z = False
    _ob.name = "MIRROR_Y":
    _ob.use_x = False
    _ob.use_y = True
    _ob.use_z = False
    _ob.name = "MIRROR_Z":
    _ob.use_x = False
    _ob.use_y = False
    _ob.use_z = True
```

```
function at the end add back the de
    b.select= 1
    ob.select=1
    set.scene.objects.active = modifier_ob
    selected" + str(modifier_ob) # modifier
    _ob.select = 0
    _ob.context.selected_objects[0]
    _ob.objects[one.name].select = 1
    ("please select exactly two objects,
```

OPERATOR CLASSES -----

```
class Operator):
    def mirror_to_the_selected_object""
    def mirror_mirror_x"
```

15 bug bounty programmes



Bug bounties in full force

- VLC
- MidPoint
- PuTTY
- Filezilla
- Notepad++
- Drupal
- WSO2
- FLUX TL
- Apache Kafka
- PHP Symfony
- KeePass
- 7-zip
- glibc
- Apache Tomcat
- DSS

Main results:

{🐛} 474 bugs reported

{🐛} 131 bugs accepted

{🐛} 15 bugs high or critical

{🐛} EUR 137.000 paid

```
try {
  var platform = new BugBounty();
  var date = new Date(2019, "Jan", 16*2);
  // TODO: find bugs.
  Participate.toFindBugs().sendToAll();
} catch (NotFoundException ex) {
  std.out("Keep trying", ex);
}
```



Bug bounties framework contract

- 3 vendors selected via public procurement tender:



- The Framework contract may be used by other DGs to organize their own bug bounties.

↳ European Commission can test its open source software.





1st Hackathon on
April 6-7, 2019

2nd Hackathon on
May 4-5, 2019

3rd Hackathon on
October 5-6, 2019



{FOSS HACKATHONS
WITH EU-FOSSA 2}

Hackathons

PHP Symfony | 6-7 April

- 60 participants
- 230 issues addressed or resolved
- 900 references on Twitter

Dedicated website: <https://eufossahackathon.bemyapp.com/>



Hackathons

Apache Software Foundation | 5/6 May

- 30 participants from 5 communities



THE
APACHE[®]
SOFTWARE FOUNDATION

Karaf



APACHE
Camel



EU-FOSSA
Free and Open Source Software Auditing

What else is inside EU-FOSSA 2?

New studies and innovations



- Updated inventories
- Reinforcing OSS Strategy
- IPR and IT support study
- Improving Drupal's security



A red, weathered sign with a white border hangs from a metal chain. The sign features the text 'Come in WE'RE OPEN' in white. 'Come in' is in a cursive font, 'WE'RE' is in a bold sans-serif font, and 'OPEN' is in a very large, bold sans-serif font. The background is a blurred city street at dusk or night, with buildings and streetlights visible through a window.

Come in WE'RE
OPEN

Brand touchpoints

- Brand refresh - new logo and visual identity
- Website
- Goodies
- Coordination of comms efforts on:
 - Hackathons
 - Bug bounties
 - Internal / external promotion



Media interest

- Overwhelming coverage by media, both technical and generalist publications
- Over **117 news articles** published on EU-FOSSA 2 in the past 5 months
- Content with the most successful performance on DIGIT's Twitter account

ZDNet
EU to fund bug bounty program
14 open source projects starting in January 2019

Forbes
Drive growth through the ecosystem
Digital platform solutions.

April
promoteur et défendeur
le logiciel libre
En janvier 2019, l'Union européenne ouvre la... dans les

The Sun
NEWS FABULOUS MONEY MOTORS TRAVEL
HACKERS' GOLD 'Ethical' hackers could make up to £80,000 breaking into EU computer software as part of new European Commission security project
Rewards range from £22,000 to £80,000 for each security bug found
By Nancy Perini, Senior Digital Technology and Science Reporter
First December 2018, 9:27 pm
Updated: First December 2018, 9:27 pm
COMMENT NOW

Cyber Security
EU offers bug bounty on popular open source software
January 8, 2019

Joinup.eu @Joinup.eu · 23 de jan
"Software Security as a Civil right" Nikos Vaggalis wrote in i-pr...
quoting the scheme that Julia Reda pushes forward | bitly/2Ub2lIW #EU...
#Joinupnews #EUPL #Joinup

SOFTWARE PROJECT	BUG BOUNTY AMOUNT (EUR)
Filezilla	58.000,00 €

Roberto Galoppini @galoppini · 17 mins ago
The @EU_Commission #EUFOSSA #BugBounty program is making #opensource more secure. Cool.

European Commission will start offering bug bounties for Open Source software



EU-FOSSA 2 - the ultimate goal

- Improve **security** of open source software
- EU institutions working with open source software communities
- Make investment into the security of open source software a permanent action of the EU





Thank you!

Questions?

DIGIT-OSS-STRATEGY@ec.europa.eu

