Wikipedia: the encyclopedia anyone can edit... even with Python

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Meetup Python Madrid, ICAI-ICADE, 2018-04-12

About me

Miguel-Angel Monjas:

- Telecom engineer, data scientist, innovation coach... in Ericsson Spain
- Proud wikipedian since December 2004
- Member of Wikimedia Spain (wikimedia.es)

@mmonjaspro

http://www.linkedin.com/in/mmonjas

https://github.com/miguel-angel-monjas/

Wikipedia?
Old stuff but...

Pages

The Walking Dead (season 8) -
https://en.wikipedia.org/wiki/The_Walking_Dead_(seas
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The Walking Dead (season 8)
From Wikipedia, the free encyclopedia
The eighth season of The Walking Dead, an American post-apocalyptic horror television series on AMC, premiered on October 22, 2017,[1] and will consist of 16 episodes[2] split into two eight-episode parts, with the second part debuting on February 25, 2018.[3]
Developed for television by Frank Darabont, the series is based on the eponymous series of comic books by Robert Kirkman, Tony Moore, and Charlie Adlard. The executive producers are Kirkman, David Alpert, Scott M. Gimple, Greg Nicotero, Tom Luse, and Gale Anne Hurd, with Gimple as showrunner for the fifth consecutive season.
This season adapts the "All Out War" story arc from the comics, with the survivors of the Alexandria Safe-Zone, the Hilltop, the Kingdom, and later the Scavengers taking on Negan (Jeffrey Dean Morgan) and the Saviors.[4]
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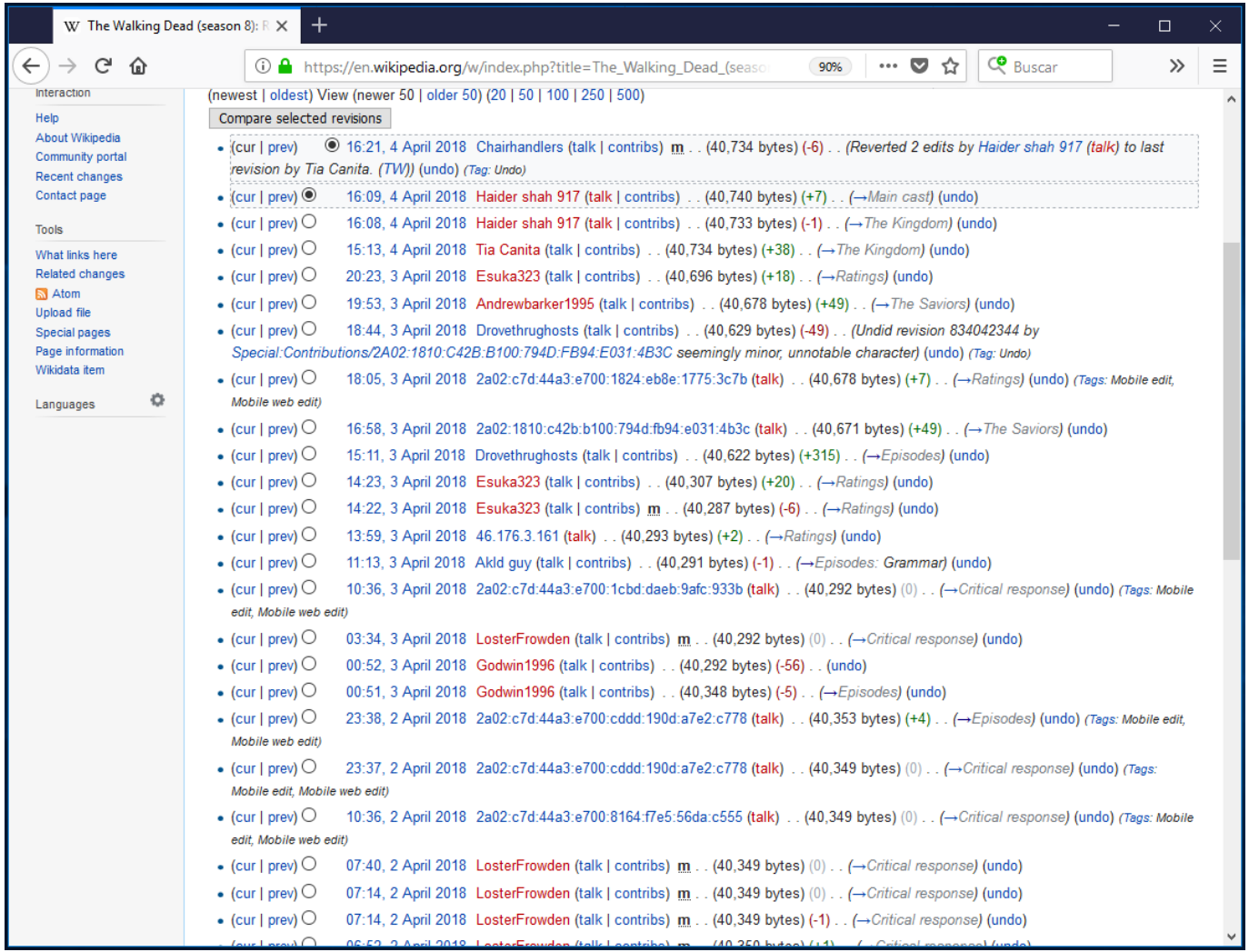
ALL OUT WAR
THE WALKING DEAD
Promotional poster
Starring
Andrew Lincoln
Norman Reedus
Lauren Cohan
Chandler Riggs
Danai Gurira
Melissa McBride
Lennie James
Alanna Masterson
Josh McDermitt
Christian Serratos
Seth Gilliam
Ross Marquand
Jeffrey Dean Morgan
Austin Amelio
Tom Payne
Xander Berkeley
Khary Payton


The Walking Dead (season 8): R
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Wikidata item
Languages
(newest | oldest) View (newer 50 | older 50) (20 | 50 | 100 | 250 | 500)
Compare selected revisions
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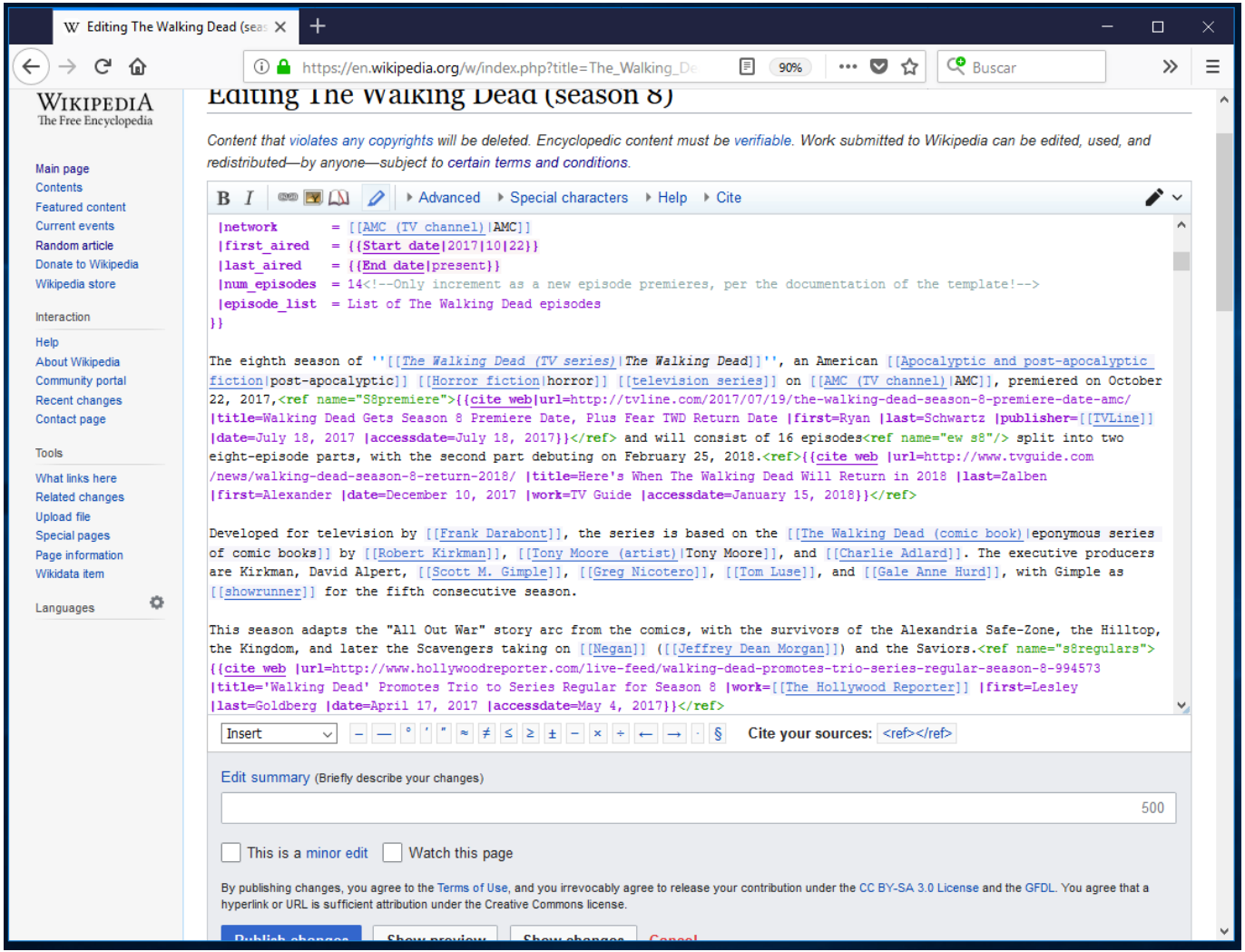
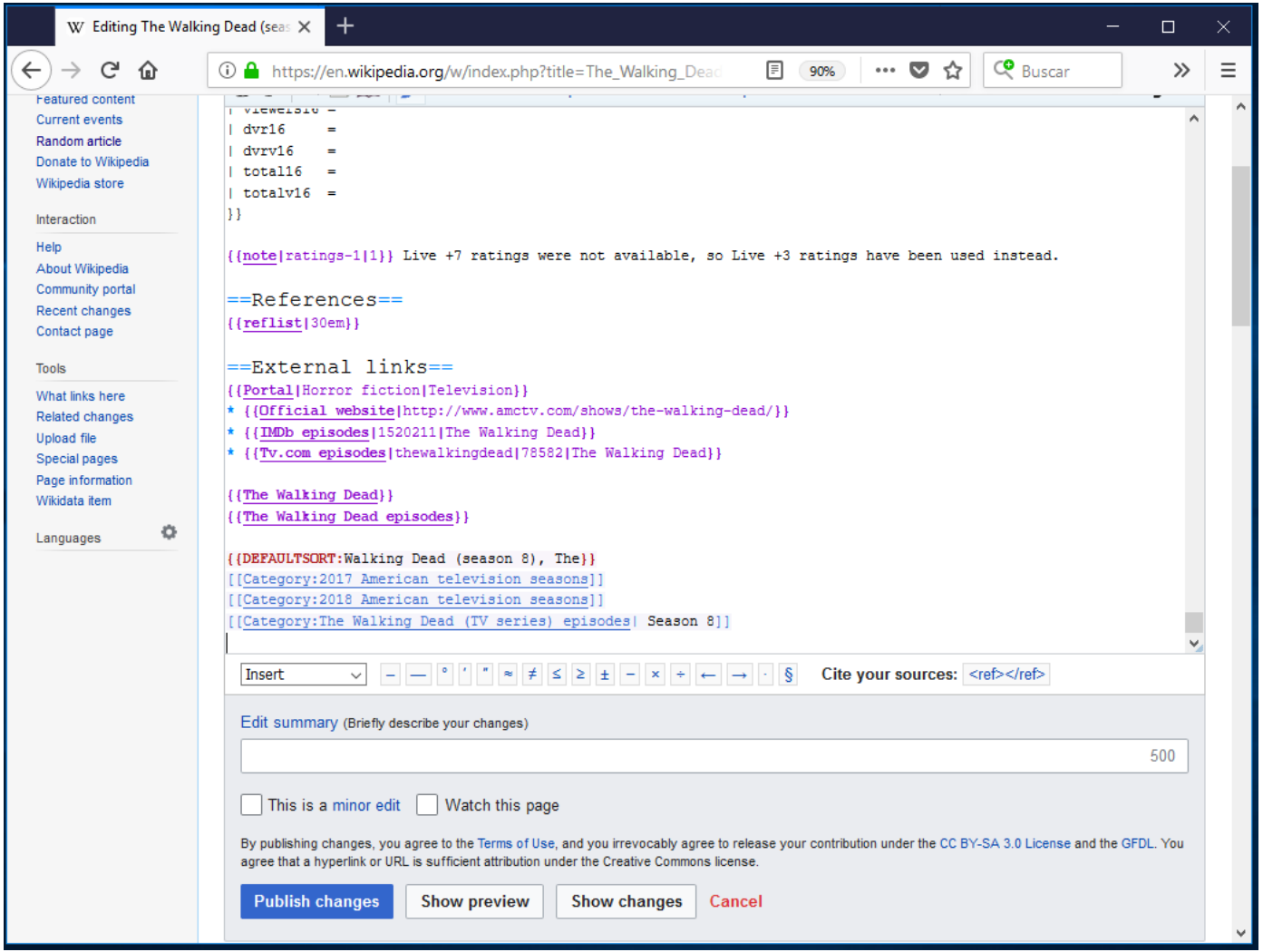
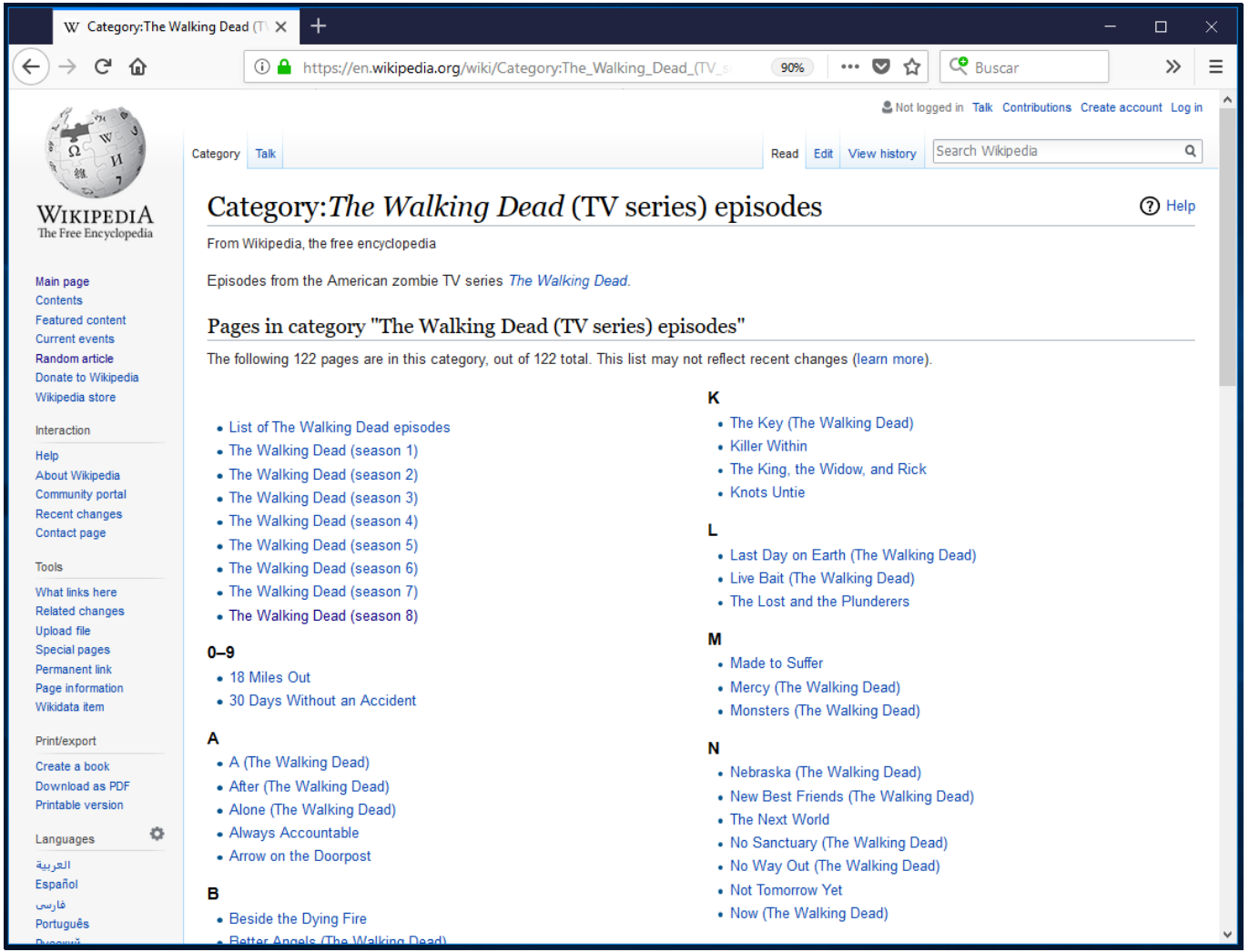
Pages: Wikitext



Pages: Wikitext



Categories


Category:The Walking Dead (T
https://en.wikipedia.org/wiki/Category:The_Walking_Dead_(TV_
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Buscar
Not logged in Talk Contributions Create account Log in
Category Talk
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Languages
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Português
Category:The Walking Dead (TV series) episodes
Help
From Wikipedia, the free encyclopedia
Episodes from the American zombie TV series The Walking Dead.
Pages in category "The Walking Dead (TV series) episodes"
The following 122 pages are in this category, out of 122 total. This list may not reflect recent changes (learn more).
List of The Walking Dead episodes
The Walking Dead (season 1)
The Walking Dead (season 2)
The Walking Dead (season 3)
The Walking Dead (season 4)
The Walking Dead (season 5)
The Walking Dead (season 6)
The Walking Dead (season 7)
The Walking Dead (season 8)
0–9
18 Miles Out
30 Days Without an Accident
A
A (The Walking Dead)
After (The Walking Dead)
Alone (The Walking Dead)
Always Accountable
Arrow on the Doorpost
B
Beside the Dying Fire
K
The Key (The Walking Dead)
Killer Within
The King, the Widow, and Rick
Knots Untie
L
Last Day on Earth (The Walking Dead)
Live Bait (The Walking Dead)
The Lost and the Plunderers
M
Made to Suffer
Mercy (The Walking Dead)
Monsters (The Walking Dead)
N
Nebraska (The Walking Dead)
New Best Friends (The Walking Dead)
The Next World
No Sanctuary (The Walking Dead)
No Way Out (The Walking Dead)
Not Tomorrow Yet
Now (The Walking Dead)

Users

User:Jimbo Wales - Wikipedia
https://en.wikipedia.org/wiki/User:Jimbo_Wales
Buscar
Not logged in Talk Contributions Create account Log in
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Upload file
Special pages
Permanent link
Page information
Print/export
Create a book
Download as PDF
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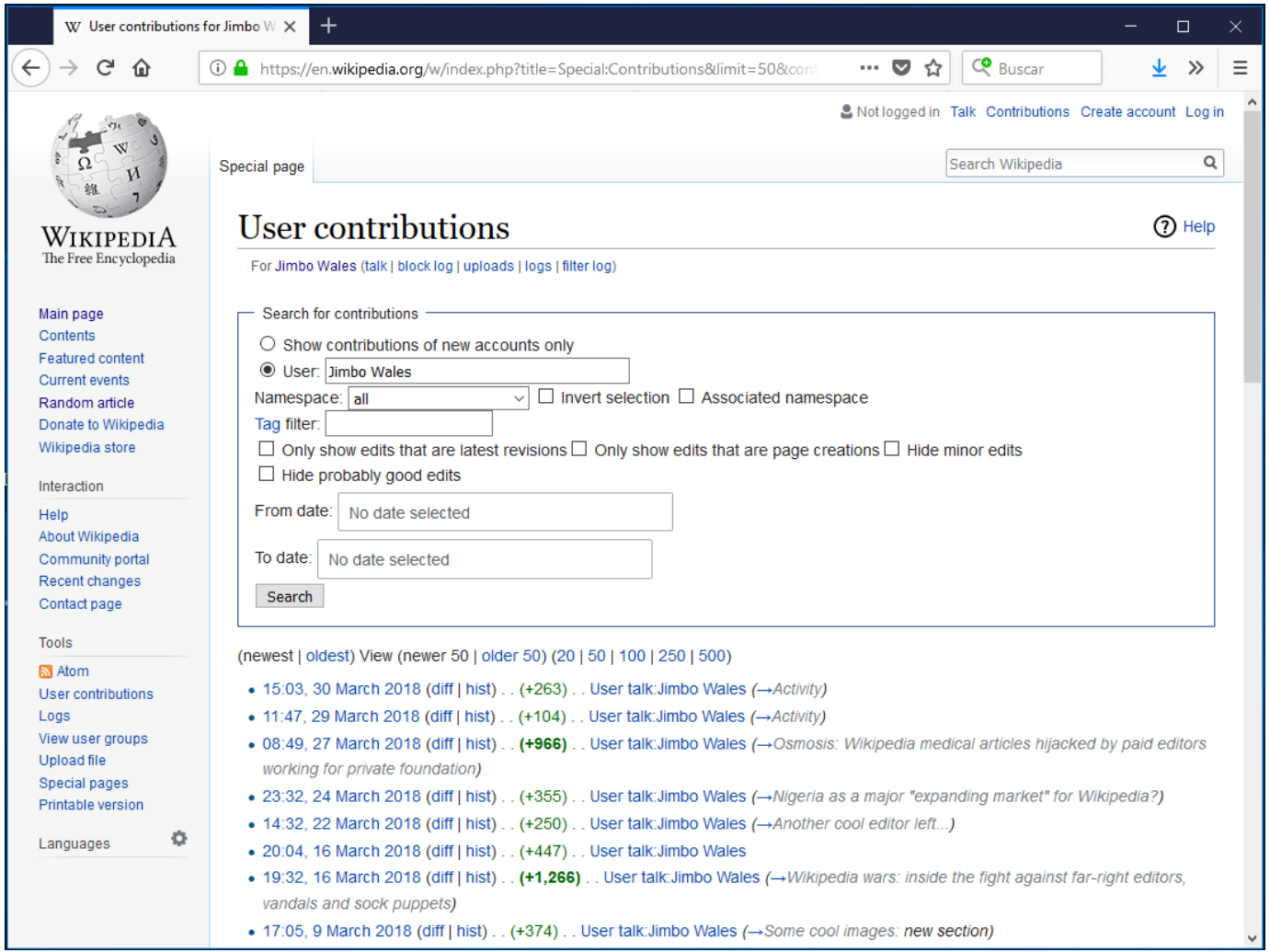
This is a Wikipedia user page.
This is not an encyclopedia article. If you find this page on any site other than Wikipedia, you are viewing a mirror site. Be aware that the page may be outdated and that the user to whom this page belongs may have no personal affiliation with any site other than Wikipedia itself. The original page is located at https://en.wikipedia.org/wiki/User:Jimbo_Wales.
Welcome! [edit]
Hello! My name is Jimmy Wales, and this is my user page. I go by "Jimmy" in real life, but often by "Jimbo" online. People sometimes assume that "Jimmy" is only a nickname for "James", but it's actually my full first name.
I was born on August 7, 1966, in Huntsville, Alabama. I founded Wikipedia on January 15, 2001. Since 2006, I have been the Chair Emeritus of the Wikimedia Foundation, set up by Larry Sanger and me on June 20, 2003. In 2004, Angela Beesley and I established Wikia, a completely separate organization unrelated to Wikipedia and the Wikimedia Foundation. Another independent project I am working on is WikiTribune. I am proud of founding Wikipedia, and I am grateful for what it has offered to millions of people worldwide.
You can edit this page! [edit]
Really, you can! If you would like to, please feel free to do so. Make an edit – or even several! After all, that's what Wikipedia is all about!
I like to keep it a certain way (simple and free from complicated markup, styles, or excessive templates), but the thing is, I trust you. Yes, really, I do! I trust that you will add something here that makes me really smile or that informs me or many others. But please, do not vandalize because it won't make the world any better, and you know that too, so please don't.
Jimmy Wales
— Wikipedian —
Me, at the Wikimania conference in 2016
Name Jimmy Wales
Born August 7, 1966 (age 51) Huntsville, Alabama, United States
Current location London, United Kingdom
Contact info

Users


User contributions for Jimbo W
https://en.wikipedia.org/w/index.php?title=Special:Contributions&limit=50&cont
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Special page
Search Wikipedia
WIKIPEDIA
The Free Encyclopedia
User contributions
Help
For Jimbo Wales (talk | block log | uploads | logs | filter log)
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Show contributions of new accounts only
User: Jimbo Wales
Namespace: all
Invert selection
Associated namespace
Tag filter:
Only show edits that are latest revisions
Only show edits that are page creations
Hide minor edits
Hide probably good edits
From date: No date selected
To date: No date selected
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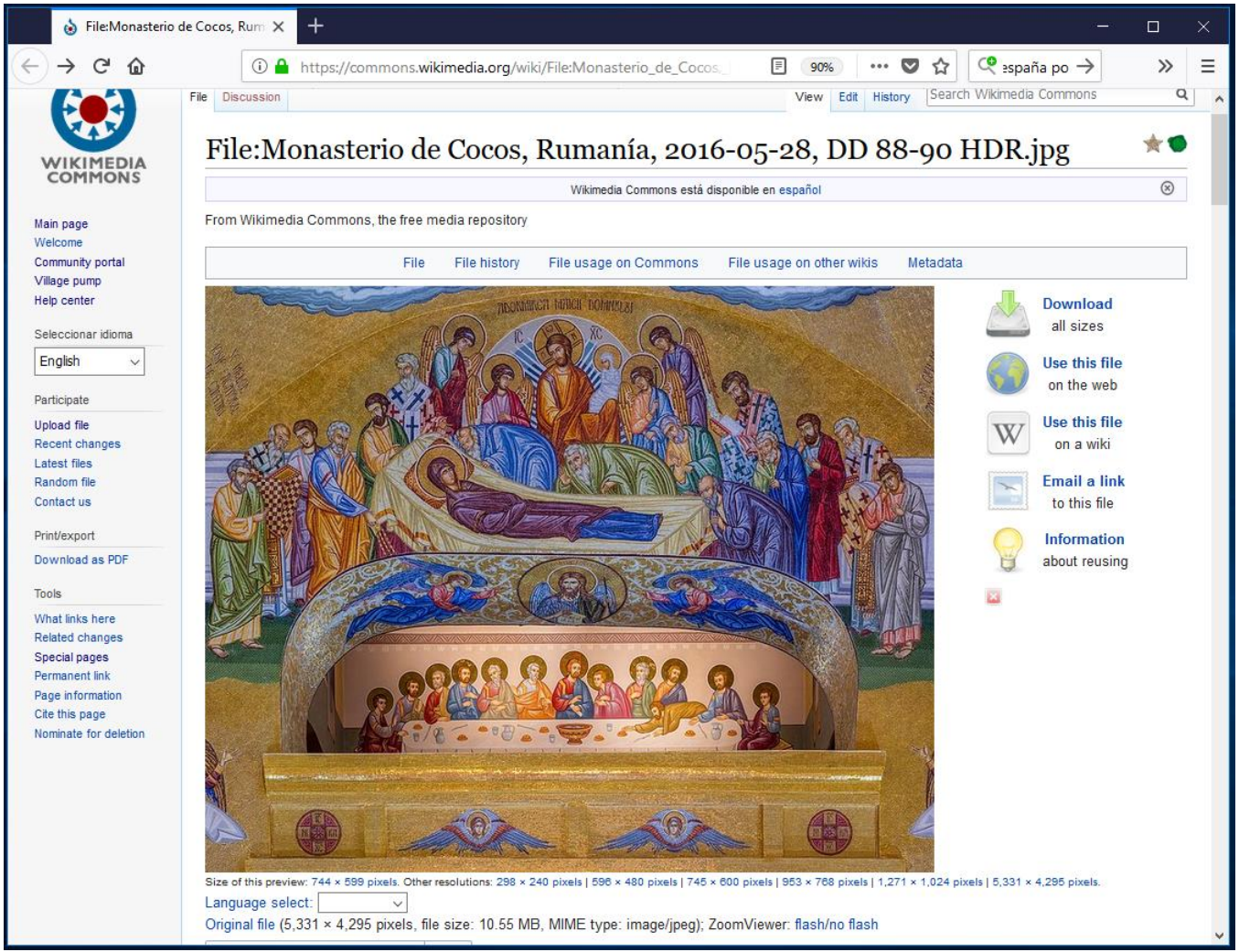
(newest | oldest) View (newer 50 | older 50) (20 | 50 | 100 | 250 | 500)
15:03, 30 March 2018 (diff | hist) . . (+263) . . User talk:Jimbo Wales (→Activity)
11:47, 29 March 2018 (diff | hist) . . (+104) . . User talk:Jimbo Wales (→Activity)
08:49, 27 March 2018 (diff | hist) . . (+966) . . User talk:Jimbo Wales (→Osmosis: Wikipedia medical articles hijacked by paid editors working for private foundation)
23:32, 24 March 2018 (diff | hist) . . (+355) . . User talk:Jimbo Wales (→Nigeria as a major "expanding market" for Wikipedia?)
14:32, 22 March 2018 (diff | hist) . . (+250) . . User talk:Jimbo Wales (→Another cool editor left...)
20:04, 16 March 2018 (diff | hist) . . (+447) . . User talk:Jimbo Wales
19:32, 16 March 2018 (diff | hist) . . (+1,266) . . User talk:Jimbo Wales (→Wikipedia wars: inside the fight against far-right editors, vandals and sock puppets)
17:05, 9 March 2018 (diff | hist) . . (+374) . . User talk:Jimbo Wales (→Some cool images: new section)

Images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Search Wikimedia Commons
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Information about reusing
Size of this preview: 744 × 599 pixels. Other resolutions: 298 × 240 pixels | 596 × 480 pixels | 745 × 600 pixels | 953 × 768 pixels | 1,271 × 1,024 pixels | 5,331 × 4,295 pixels.
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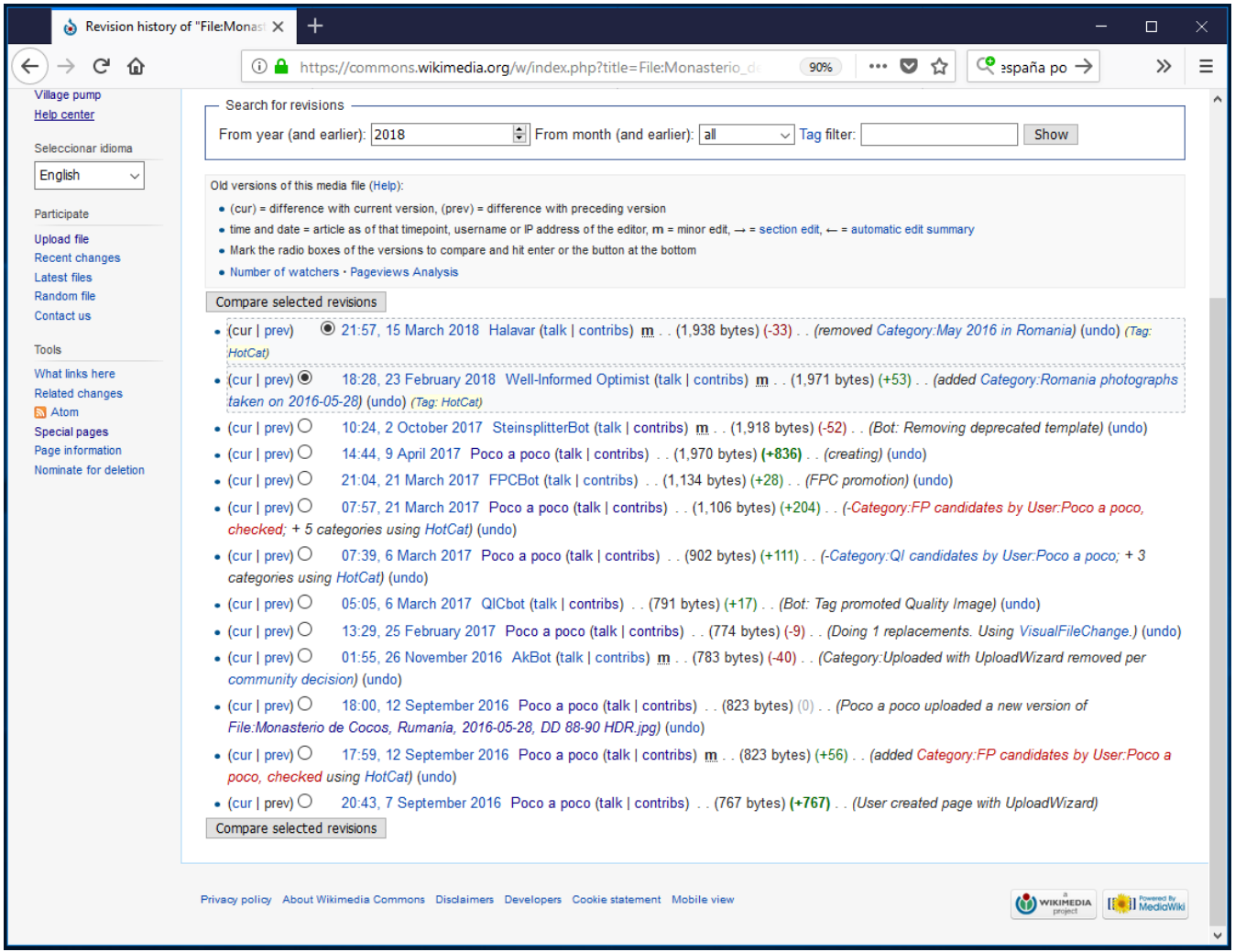
Images


Revision history of "File:Monas
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Village pump
Help center
Seleccionar idioma
English
Participate
Upload file
Recent changes
Latest files
Random file
Contact us
Tools
What links here
Related changes
Atom
Special pages
Page information
Nominate for deletion
Search for revisions
From year (and earlier): 2018
From month (and earlier): all
Tag filter:
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Old versions of this media file (Help):
(cur) = difference with current version, (prev) = difference with preceding version
time and date = article as of that timepoint, username or IP address of the editor, m = minor edit, → = section edit, ← = automatic edit summary
Mark the radio boxes of the versions to compare and hit enter or the button at the bottom
Number of watchers · Pageviews Analysis
Compare selected revisions
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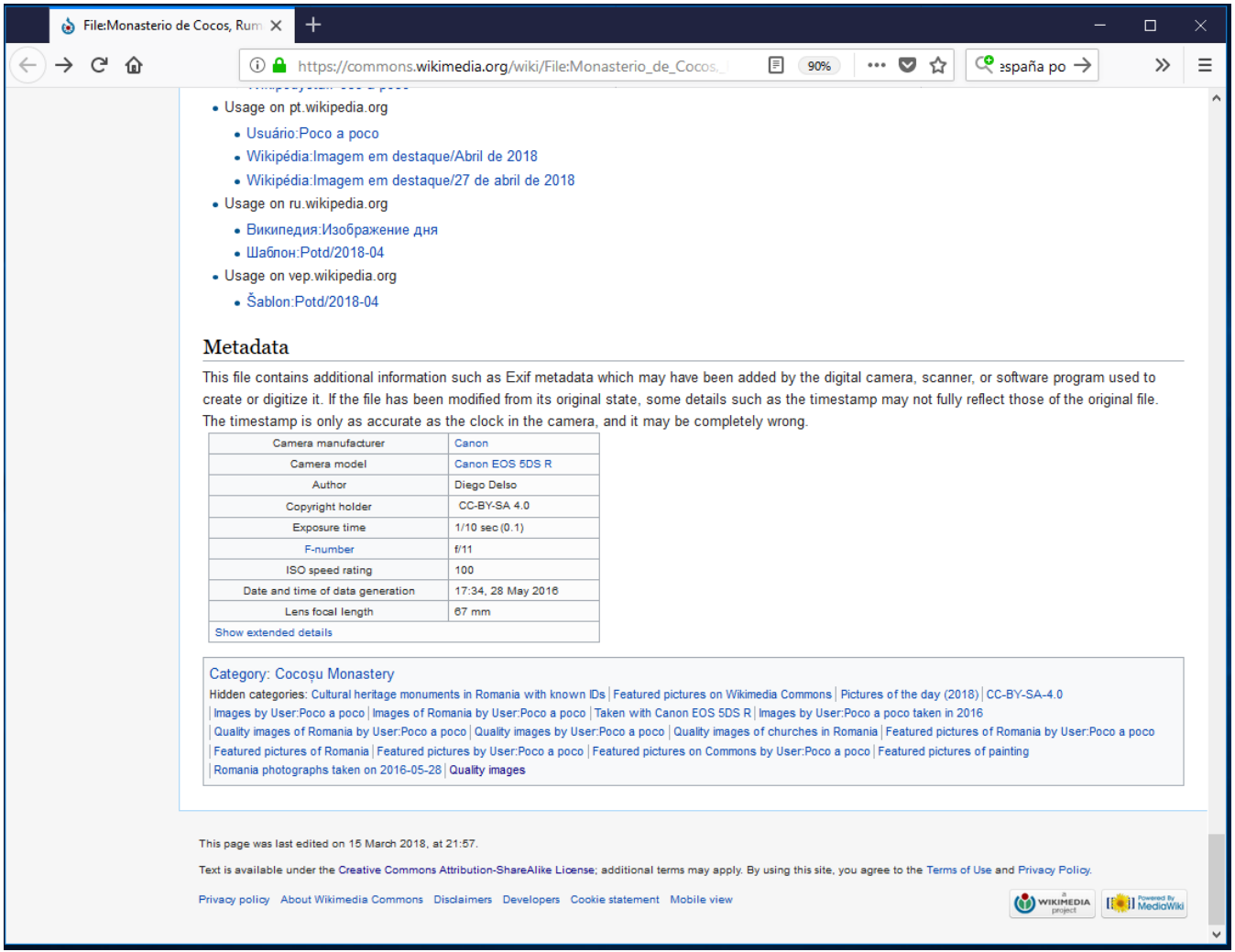
Images


File:Monasterio de Cocos, Rum
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• Usage on pt.wikipedia.org
• Usuário:Poco a poco
• Wikipédia:Imagem em destaque/Abril de 2018
• Wikipédia:Imagem em destaque/27 de abril de 2018
• Usage on ru.wikipedia.org
• Википедия:Изображение дня
• Шаблон:Potd/2018-04
• Usage on vep.wikipedia.org
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Camera manufacturer | Canon
Camera model | Canon EOS 5DS R
Author | Diego Delso
Copyright holder | CC-BY-SA 4.0
Exposure time | 1/10 sec (0.1)
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Date and time of data generation | 17:34, 28 May 2016
Lens focal length | 67 mm
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Category: Cocoșu Monastery
Hidden categories: Cultural heritage monuments in Romania with known IDs | Featured pictures on Wikimedia Commons | Pictures of the day (2018) | CC-BY-SA-4.0 | Images by User:Poco a poco | Images of Romania by User:Poco a poco | Taken with Canon EOS 5DS R | Images by User:Poco a poco taken in 2016 | Quality images of Romania by User:Poco a poco | Quality images by User:Poco a poco | Quality images of churches in Romania | Featured pictures of Romania by User:Poco a poco | Featured pictures of Romania | Featured pictures by User:Poco a poco | Featured pictures on Commons by User:Poco a poco | Featured pictures of painting | Romania photographs taken on 2016-05-28 | Quality images
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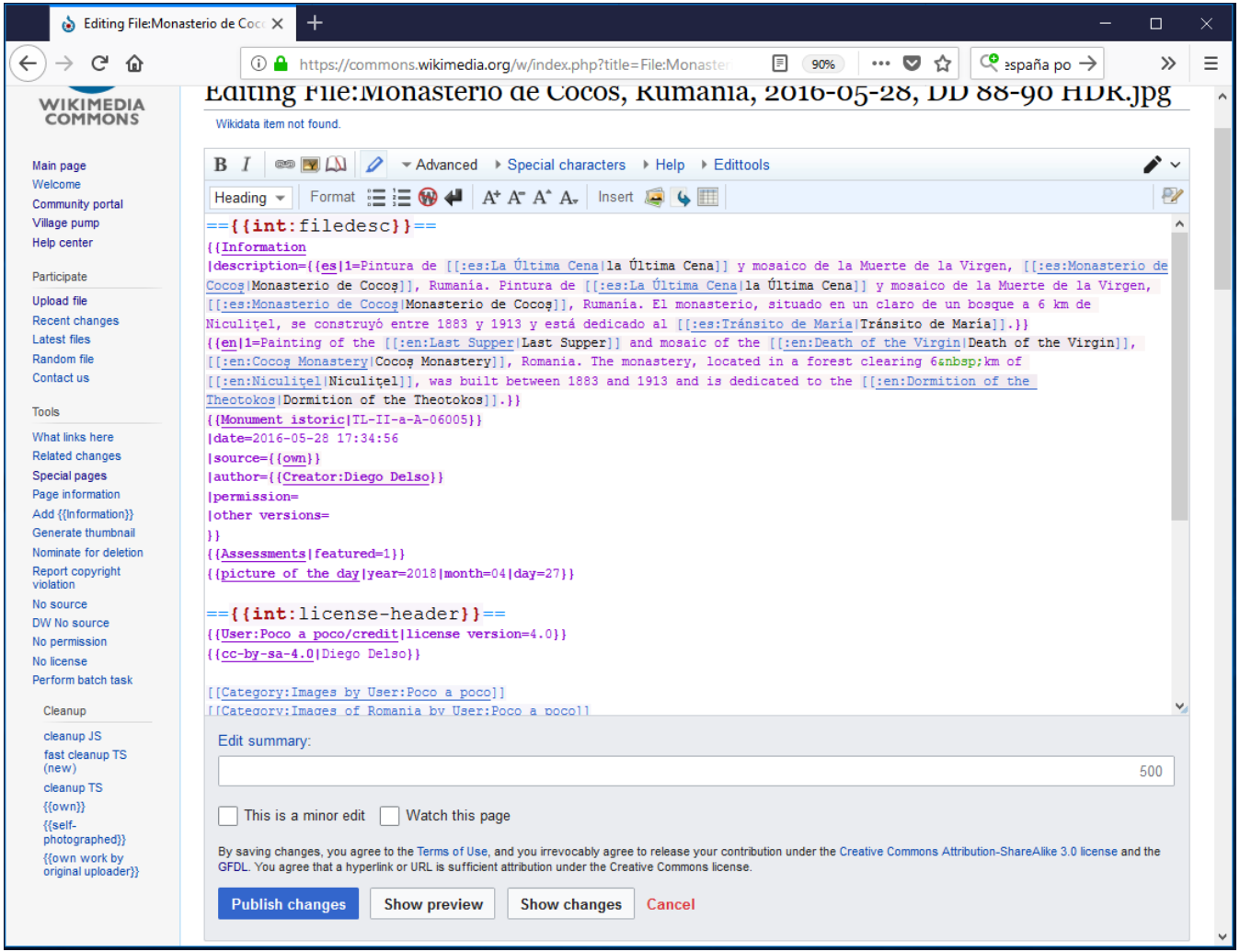
Images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Advanced
Special characters
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Heading
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{{en|1=Painting of the [[:en:Last Supper|Last Supper]] and mosaic of the [[:en:Death of the Virgin|Death of the Virgin]], [[:en:Cocoș Monastery|Cocoș Monastery]], Romania. The monastery, located in a forest clearing 6 km of [[:en:Niculițel|Niculițel]], was built between 1883 and 1913 and is dedicated to the [[:en:Dormition of the Theotokos|Dormition of the Theotokos]].}}
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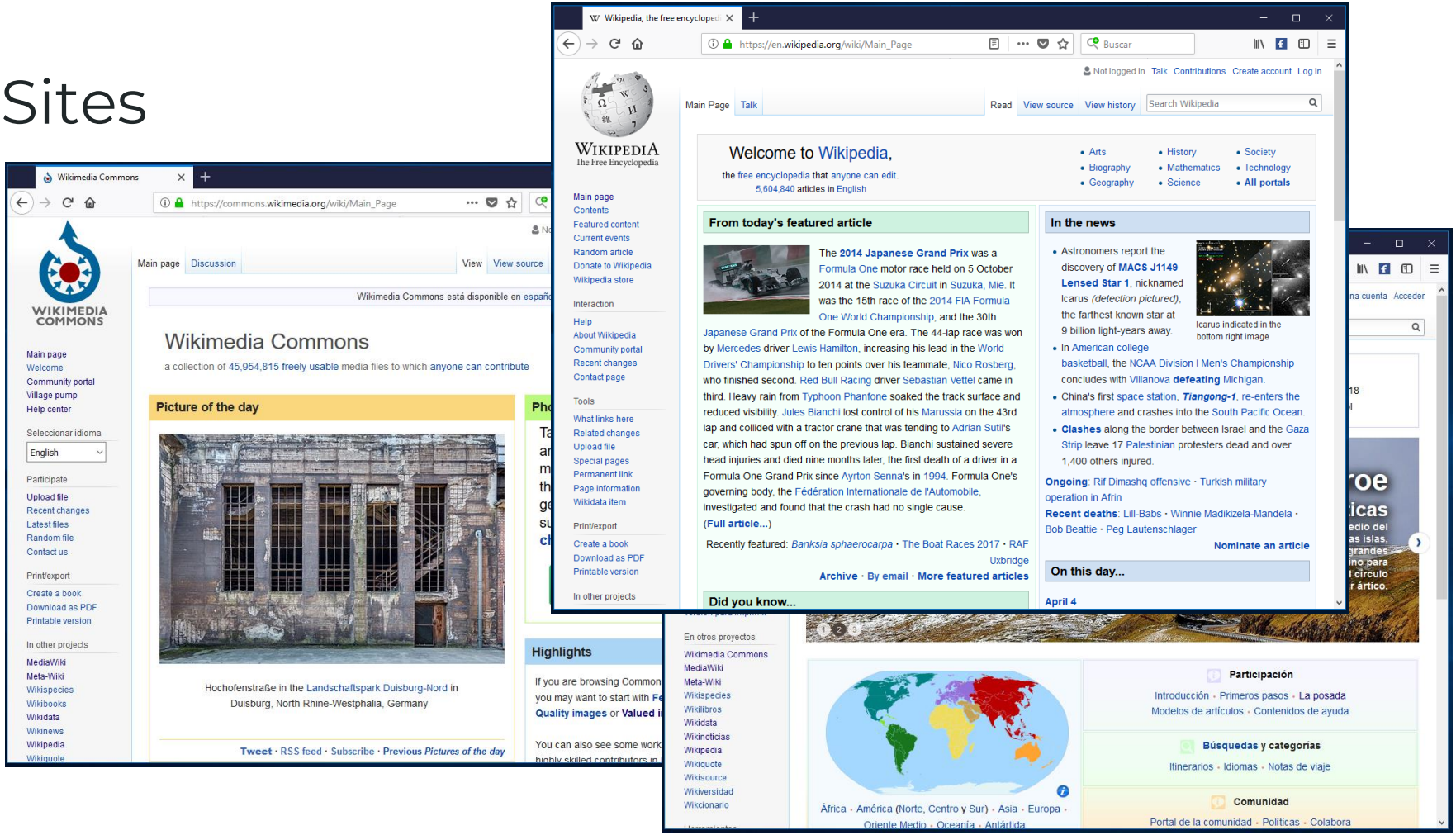
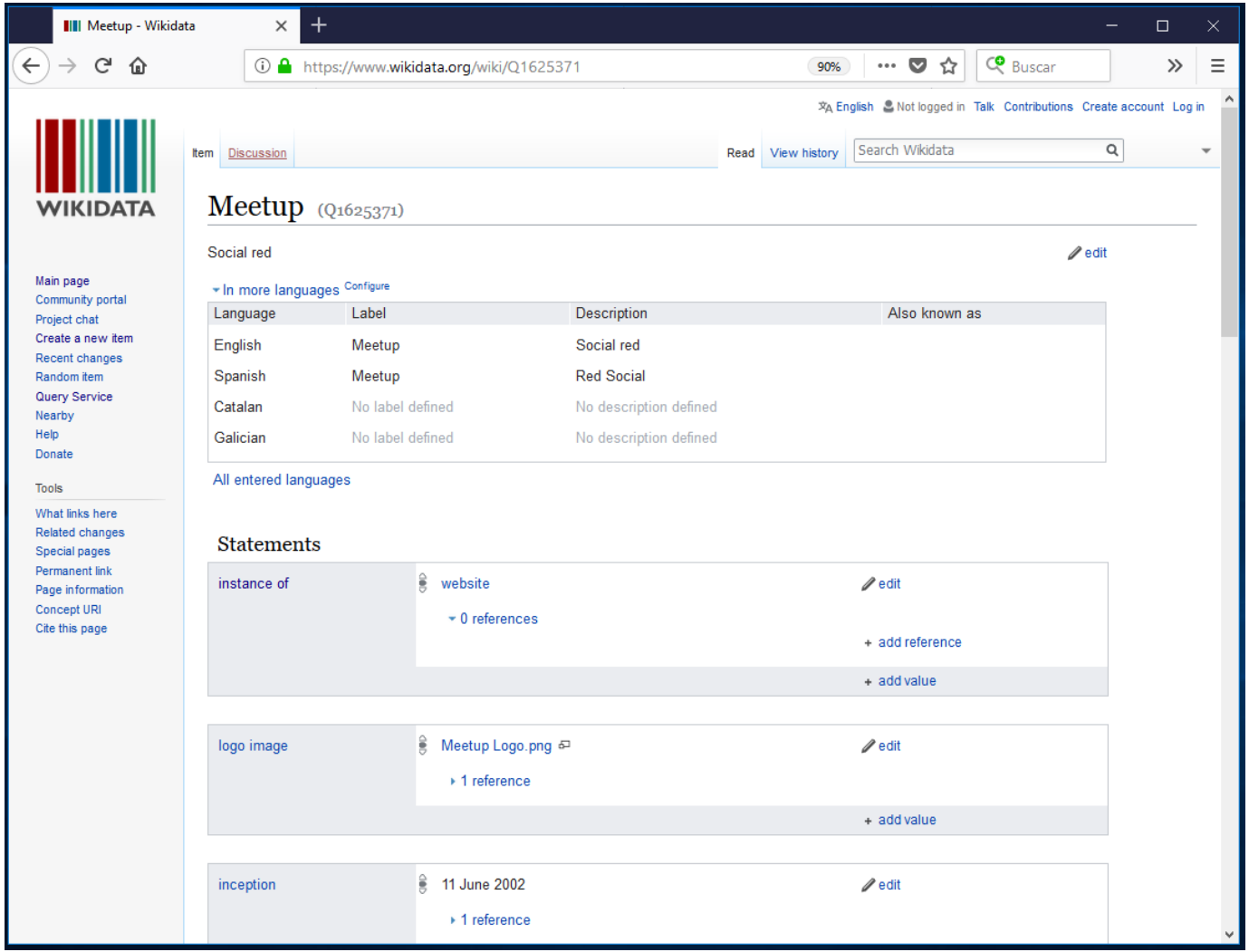
[[Category:Images by User:Poco a poco]]
[[Category:Images of Romania by User:Poco a poco]]
Edit summary:
500
This is a minor edit
Watch this page
By saving changes, you agree to the Terms of Use, and you irrevocably agree to release your contribution under the Creative Commons Attribution-ShareAlike 3.0 license and the GFDL. You agree that a hyperlink or URL is sufficient attribution under the Creative Commons license.
Publish changes
Show preview
Show changes
Cancel
Main page
Welcome
Community portal
Village pump
Help center
Participate
Upload file
Recent changes
Latest files
Random file
Contact us
Tools
What links here
Related changes
Special pages
Page information
Add {{Information}}
Generate thumbnail
Nominate for deletion
Report copyright violation
No source
DW No source
No permission
No license
Perform batch task
Cleanup
cleanup JS
fast cleanup TS (new)
cleanup TS
{{own}}
{{self-photographed}}
{{own work by original uploader}}

Sites


Wikimedia Commons
https://commons.wikimedia.org/wiki/Main_Page
WIKIMEDIA COMMONS
Wikimedia Commons
a collection of 45,954,815 freely usable media files to which anyone can contribute
Picture of the day
Hochofenstraße in the Landschaftspark Duisburg-Nord in Duisburg, North Rhine-Westphalia, Germany
Wikipedia, the free encyclopedia
https://en.wikipedia.org/wiki/Main_Page
WIKIPEDIA
The Free Encyclopedia
Welcome to Wikipedia,
the free encyclopedia that anyone can edit.
5,604,840 articles in English
From today's featured article
The 2014 Japanese Grand Prix was a Formula One motor race held on 5 October 2014 at the Suzuka Circuit in Suzuka, Mie. It was the 15th race of the 2014 FIA Formula One World Championship, and the 30th Japanese Grand Prix of the Formula One era. The 44-lap race was won by Mercedes driver Lewis Hamilton, increasing his lead in the World Drivers' Championship to ten points over his teammate, Nico Rosberg, who finished second. Red Bull Racing driver Sebastian Vettel came in third. Heavy rain from Typhoon Phanfone soaked the track surface and reduced visibility. Jules Bianchi lost control of his Marussia on the 43rd lap and collided with a tractor crane that was tending to Adrian Sutil's car, which had spun off on the previous lap. Bianchi sustained severe head injuries and died nine months later, the first death of a driver in a Formula One Grand Prix since Ayrton Senna's in 1994. Formula One's governing body, the Fédération Internationale de l'Automobile, investigated and found that the crash had no single cause.
(Full article...)
In the news
Astronomers report the discovery of MACS J1149 Lensed Star 1, nicknamed Icarus (detection pictured), the farthest known star at 9 billion light-years away.
Icarus indicated in the bottom right image
In American college basketball, the NCAA Division I Men's Championship concludes with Villanova defeating Michigan.
China's first space station, Tiangong-1, re-enters the atmosphere and crashes into the South Pacific Ocean.
Clashes along the border between Israel and the Gaza Strip leave 17 Palestinian protesters dead and over 1,400 others injured.
Ongoing: Rif Dimashq offensive · Turkish military operation in Afrin
Recent deaths: Lill-Babs · Winnie Madikizela-Mandela · Bob Beattie · Peg Lautenschlager
Nominate an article
On this day...
April 4
Did you know...
Recently featured: Banksia sphaerocarpa · The Boat Races 2017 · RAF Uxbridge
Archive · By email · More featured articles
Highlights
En otros proyectos
Participación
Búsquedas y categorías
Comunidad
África · América (Norte, Centro y Sur) · Asia · Europa · Oriente Medio · Oceanía · Antártida

Wikidata Items



A Python bot framework: pywikibot

Concepts and how-to

Bots:
A definition

A bot is a software application that performs automated tasks. Typically, bots perform tasks that are both simple and structurally repetitive, at a much higher rate than would be possible for a human alone.

In the Wikimedia projects, a bot is any software application that modifies any element of the project, by uploading pictures, updating a page… either massively or not

pywikibot

- Python library and collection of tools that automate work on MediaWiki sites.
- https://www.mediawiki.org/wiki/Manual:Pywikibot
- https://doc.wikimedia.org/pywikibot/api_ref/pywikibot.html

pywikibot: Site

In [1]:
```
import pywikibot as pb
```

In [2]:
```
test_site = pb.Site("test", "wikipedia")
enwiki_site = pb.Site("en", "wikipedia")
commons_site = pb.Site("commons", "commons")
```

pywikibot: Page

In [3]:
```
page = pb.Page(commons_site, "File:Donald Trump official portrait.jpg")
page.exists()
```

Out[3]:
```
True
```

In [4]:
```
page.title(withNamespace=False)
```

Out[4]:
```
'Donald Trump official portrait.jpg'
```

In [5]:
```
page = pb.Page(commons_site, 'File:Official Trump picture.jpg')
page.exists()
```

Out[5]:
```
True
```

In [6]:
```
page.isRedirectPage()
```

Out[6]:
```
True
```

In [7]:
```
if page.isRedirectPage():
    page = pb.Page(commons_site, 'File:Official Trump picture.jpg').getRedirectTarget()
    print(page.title())
```

```
File:Donald Trump official portrait.jpg
```

pywikibot: Page

In [8]:
```
page = pb.Page(commons_site, 'Donald Trump official portrait.jpg', ns=6)
page.is_categorypage()
```

Out[8]: False

In [9]:
```
page.is_filepage()
```

Out[9]: True

pywikibot: Page

In [10]:
```
text = page.text
print(text)
```

```
==
{{int:filedesc}}
==
{{Information
|description={{en|1=President Donald Trump poses for his official portrait at The White House
, in Washington, D.C., on Friday, October 6, 2017.  (Official White House Photo by Shealah Cr
aighead)}}
|date=2017-10-06
|source=https://www.whitehouse.gov/the-press-office/2017/10/31/white-house-releases-official-
portraits-president-donald-j-trump-and
|author={{creator:Shealah Craighead}}
|permission=
|other versions={{Image extracted|1=Official Portrait of President Donald Trump (cropped).jpg
}}
}}

==
{{int:license-header}}
==
{{PD-USGov-POTUS}}
{{Personality rights}}

[[Category:Official portraits of Donald Trump]]
[[Category:Donald Trump in October 2017]]
[[Category:Photographs by Shealah Craighead]]
[[Category:Men wearing blue neckties|Bush]]
```

pywikibot: Page

```
In [12]: page.contributors().most_common()
```

```
Out[12]: [('Corkythehornetfan', 6),
          ('MB298', 4),
          ('80.235.147.186', 3),
          ('BukhariSaeed', 1),
          ('83.37.246.171', 1),
          ('TimDaEmeraldWizard', 1),
          ('Golfpecks256', 1),
          ('50.80.172.24', 1),
          ('Ciacho10', 1),
          ('Josve05a', 1),
          ('Warburg1866', 1),
          ('Spartan7W', 1)]
```

pywikibot: Page

```
In [13]: page.revisions()
```

```
Out[13]: <generator object BasePage.revisions.<locals>.<genexpr> at 0x7f29aaf3aeb8>
```

```
In [14]: revisions = [revision for revision in page.revisions()]
         revisions[-1]
```

```
Out[14]: {'revid': 265487356, 'text': None, 'timestamp': Timestamp(2017, 10, 31, 15, 15, 40), 'user':
         'Spartan7W', 'anon': False, 'comment': 'User created page with UploadWizard', 'minor': False,
         'rollbacktoken': None, '_parent_id': 0, '_content_model': 'wikitext', '_sha1': '9ddfd9575fb71
         bf8ef48326bff70043c7b2c3977'}
```

```
In [15]: revisions[-1]['user']
```

```
Out[15]: 'Spartan7W'
```

```
In [16]: page.oldest_revision['user']
```

```
Out[16]: 'Spartan7W'
```

```
In [17]: page.oldest_revision['timestamp'].strftime("%Y-%m-%d")
```

```
Out[17]: '2017-10-31'
```

pywikibot: FilePage

```
In [20]: filepage = pb.FilePage(commons_site, "Donald Trump official portrait.jpg")
         filepage.oldest_file_info
```

Out[20]:

```
{'timestamp': Timestamp(2017, 10, 31, 15, 15, 40), 'user': 'Spartan7W', 'size': 5891405, 'wid
th': 2250, 'height': 2850, 'comment': 'User created page with UploadWizard', 'url': 'https://
upload.wikimedia.org/wikipedia/commons/archive/5/56/20180213015426%21Donald_Trump_official_po
rtrait.jpg', 'descriptionurl': 'https://commons.wikimedia.org/wiki/File:Donald_Trump_official
_portrait.jpg', 'descriptionshorturl': 'https://commons.wikimedia.org/w/index.php?curid=63768
460', 'sha1': 'e4428799156fd03464042dd9fa25dd2651f7e920', 'metadata': [{'name': 'ImageDescrip
tion', 'value': 'Official portrait of President Donald J. Trump, Friday, October 6, 2017.  (O
fficial White House photo by Shealah Craighead)'}, {'name': 'Orientation', 'value': 1}, {'nam
e': 'XResolution', 'value': '3000000/10000'}, {'name': 'YResolution', 'value': '3000000/10000
'}, {'name': 'ResolutionUnit', 'value': 2}, {'name': 'Software', 'value': 'Adobe Photoshop CC
2017 (Macintosh)'}, {'name': 'DateTime', 'value': '2017:10:19 07:50:26'}, {'name': 'Copyright
', 'value': 'Please note that this photo is being sent to you for personal us'}, {'name': 'Co
lorSpace', 'value': 65535}, {'name': 'iimVersion', 'value': 4}, {'name': 'iimCategory', 'valu
e': 'P'}, {'name': 'Keywords', 'value': '\n*OFFICIAL PORTRAIT\n*OVAL OFFICE'}, {'name': 'Cred
it', 'value': 'White House'}, {'name': 'Source', 'value': 'White House'}, {'name': 'MEDIAWIKI
_EXIF_VERSION', 'value': 1}], 'mime': 'image/jpeg', 'archivename': '20180213015426!Donald_Tru
mp_official_portrait.jpg'}
```

pywikibot: FilePage

```
In [21]: filepage.oldest_file_info['metadata']
```

```
Out[21]: [{'name': 'ImageDescription',
           'value': 'Official portrait of President Donald J. Trump, Friday, October 6, 2017.  (Offici
         al White House photo by Shealah Craighead)'},
          {'name': 'Orientation', 'value': 1},
          {'name': 'XResolution', 'value': '3000000/10000'},
          {'name': 'YResolution', 'value': '3000000/10000'},
          {'name': 'ResolutionUnit', 'value': 2},
          {'name': 'Software', 'value': 'Adobe Photoshop CC 2017 (Macintosh)'},
          {'name': 'DateTime', 'value': '2017:10:19 07:50:26'},
          {'name': 'Copyright',
           'value': 'Please note that this photo is being sent to you for personal us'},
          {'name': 'ColorSpace', 'value': 65535},
          {'name': 'iimVersion', 'value': 4},
          {'name': 'iimCategory', 'value': 'P'},
          {'name': 'Keywords', 'value': '\n*OFFICIAL PORTRAIT\n*OVAL OFFICE'},
          {'name': 'Credit', 'value': 'White House'},
          {'name': 'Source', 'value': 'White House'},
          {'name': 'MEDIAWIKI_EXIF_VERSION', 'value': 1}]
```

pywikibot: FilePage

In [19]:
```
from IPython.display import Image
```

In [22]:
```
filepage.download("picture.jpg")
Image(filename="picture.jpg", width=200)
```

Out[22]:

pywikibot: Category

In [23]:
```
for category in page.categories() :
    print (category.title())
```

```
Category:Donald Trump in October 2017
Category:Executive Office of the President files
Category:Images with extracted images
Category:Men wearing blue neckties
Category:Official portraits of Donald Trump
Category:Personality rights warning
Category:Photographs by Shealah Craighead
```

In [24]:
```
for category in page.categories() :
    if not category.isHiddenCategory() :
        print (category.title())
```

```
Category:Donald Trump in October 2017
Category:Men wearing blue neckties
Category:Official portraits of Donald Trump
```

pywikibot: Category

In [25]:
```
from pywikibot import pagegenerators
```

In [26]:
```
category = pb.Category(commons_site, 'Category:Men wearing blue neckties')
category.categoryinfo
```

Out[26]:
```
{'files': 259, 'pages': 0, 'size': 259, 'subcats': 0}
```

In [27]:
```
files = [file.title() for file in pagegenerators.CategorizedPageGenerator(category)]
files[:10]
```

Out[27]:
```
['File:1 francesc ricoma.jpg',
 'File:12 Hugo caraballo cadena.JPG',
 'File:130918-M-EV637-311 (9817833184).jpg',
 'File:2011-11-09 BerndSibler.jpg',
 'File:2011-11-09 BernhardPohl.jpg',
 'File:2012 President Barack Obama with David Letterman.jpg',
 'File:2012-12-13 - Matthias Graner MdL DE-ST - 1292.jpg',
 'File:President Barack Obama (cropped).jpg',
 'File:President Barack Obama.jpg',
 'File:Barack Obama and Benyamin Netanyahu.jpg']
```

pywikibot: User

```
In [28]: jimbo = pb.User(enwiki_site, "Jimbo Wales")
         jimbo.editCount()
Out[28]: 13280

In [29]: jimbo.gender()
Out[29]: 'unknown'

In [30]: jimbo.groups()
Out[30]: ['checkuser', 'founder', 'oversight', 'sysop', '*', 'user', 'autoconfirmed']

In [31]: jimbo.registration().strftime("%Y-%m-%d")
Out[31]: '2001-03-27'

In [32]: jimbo.isBlocked()
Out[32]: False
```

Editing in Wikipedia

In [38]:
```
from mako.template import Template
```

In [39]:
```
text_template = """==${title}==
[[File:Meetup.png|100px|right]]
; Jueves, 12 de abril de ${year}

Convocamos un nuevo meetup orientado a profundizar en el uso de APIs con Python. Por un lado
veremos como construir APIs en GraphQL con Graphene y por otro como explotar el API de la
wikipedia gracias a Pywikibot y PAWS. ¡Nos acompañarán dos ponentes excepcionales!
"""
vars = {
    "title": "APIs en Python: GraphQL con Graphene y Wikipedia con Pywikibot",
    "weekday": 'Jueves',
    "day": 12,
    "month": "abril",
    "year": 2017}

t = Template(text_template)
page_text = t.render(**vars)
print(page_text)
```

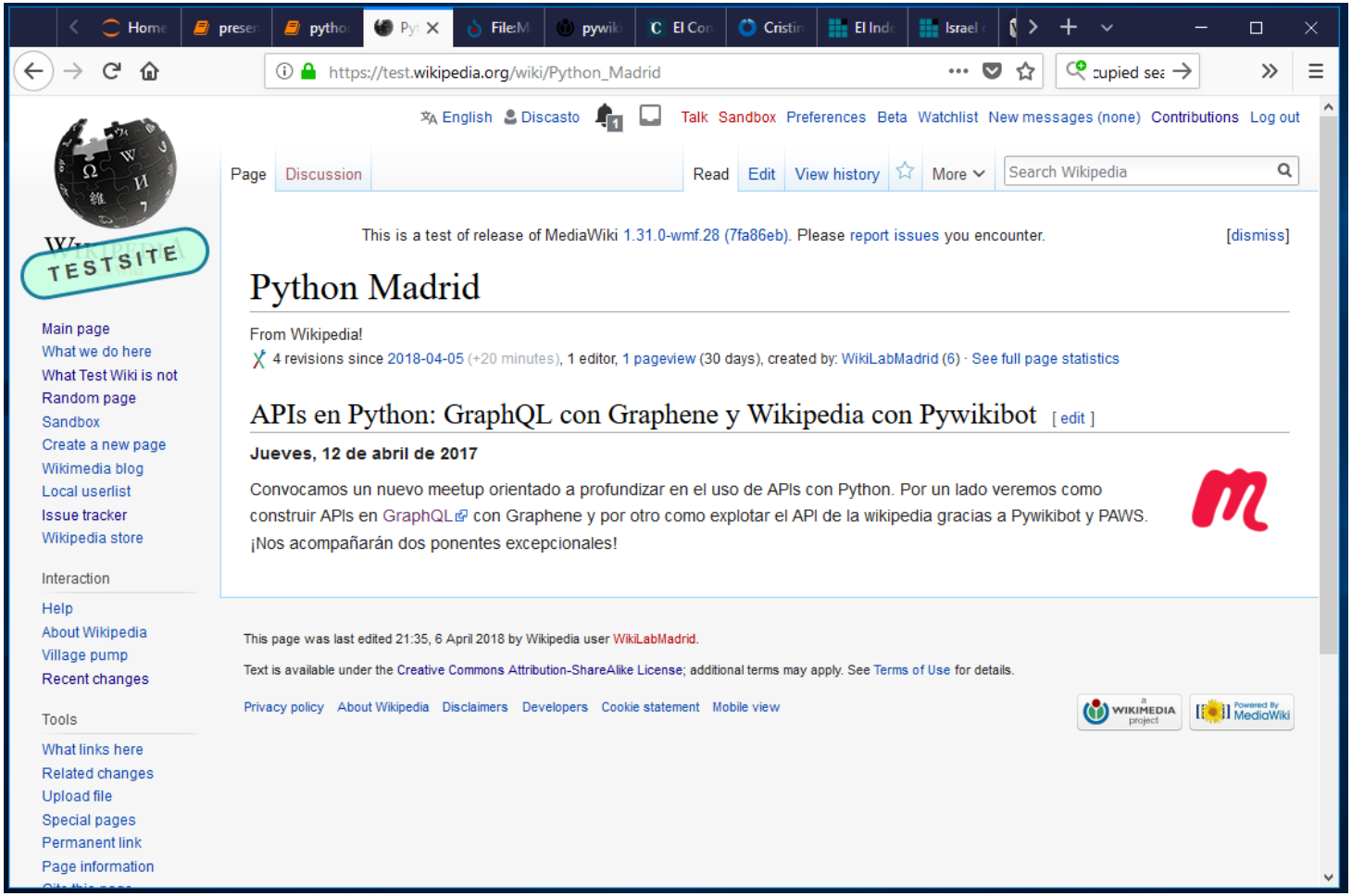
```
==APIs en Python: GraphQL con Graphene y Wikipedia con Pywikibot==
[[File:Meetup.png|100px|right]]
; Jueves, 12 de abril de 2017

Convocamos un nuevo meetup orientado a profundizar en el uso de APIs con Python. Por un lado
veremos como construir APIs en GraphQL con Graphene y por otro como explotar el API de la
wikipedia gracias a Pywikibot y PAWS. ¡Nos acompañarán dos ponentes excepcionales!
```

Editing in Wikipedia

In [35]:
```
test_page = pb.Page(pb.Site('test', 'wikipedia'), 'Python Madrid')
test_page.text = page_text
test_page.save()
```

```
Sleeping for 9.6 seconds, 2018-04-06 21:43:17
Page [[Python Madrid]] saved
```


https://test.wikipedia.org/wiki/Python_Madrid
English
Discasto
Talk
Sandbox
Preferences
Beta
Watchlist
New messages (none)
Contributions
Log out
Page
Discussion
Read
Edit
View history
More
Search Wikipedia
TESTSITE
Main page
What we do here
What Test Wiki is not
Random page
Sandbox
Create a new page
Wikimedia blog
Local userlist
Issue tracker
Wikipedia store
Interaction
Help
About Wikipedia
Village pump
Recent changes
Tools
What links here
Related changes
Upload file
Special pages
Permanent link
Page information
This is a test of release of MediaWiki 1.31.0-wmf.28 (7fa86eb). Please report issues you encounter.
[dismiss]
Python Madrid
From Wikipedia!
4 revisions since 2018-04-05 (+20 minutes), 1 editor, 1 pageview (30 days), created by: WikiLabMadrid (6) · See full page statistics
APIs en Python: GraphQL con Graphene y Wikipedia con Pywikibot [edit]
Jueves, 12 de abril de 2017
Convocamos un nuevo meetup orientado a profundizar en el uso de APIs con Python. Por un lado veremos como construir APIs en GraphQL con Graphene y por otro como explotar el API de la wikipedia gracias a Pywikibot y PAWS. ¡Nos acompañarán dos ponentes excepcionales!
This page was last edited 21:35, 6 April 2018 by Wikipedia user WikiLabMadrid.
Text is available under the Creative Commons Attribution-ShareAlike License; additional terms may apply. See Terms of Use for details.
Privacy policy
About Wikipedia
Disclaimers
Developers
Cookie statement
Mobile view

Editing in Wikipedia

In [41]:
```
import requests
from PIL import Image
from io import BytesIO
from pywikibot.specialbots import UploadRobot
import os
```

In [42]:
```
image_url = 'https://www.shareicon.net/download/2017/01/24/875994_media_512x512.png'
image_local_name = "meetup.png"
r = requests.get(image_url)
downloaded_image = Image.open(BytesIO(r.content))
downloaded_image.save(image_local_name)
```

In [44]:
```
description = """=={{int:filedesc}}==
{{Information
|description={{en|1=Meetup logo}}
|date=2018
|source=Meetup
|author=Meetup
|permission=
|other versions=
}}

=={{int:license-header}}==
{{PD-textlogo}}

[[Category:Logos]]
"""
```

In [48]:
```
bot = UploadRobot([image_local_name], description = description,
                  useFilename = image_local_name,
                  keepFilename = True, verifyDescription = False,
                  ignoreWarning = True, targetSite = commons_site)
bot.run()

os.remove(image_local_name)
```

```
The suggested description is:
=={{int:filedesc}}==
{{Information
|description={{en|1=Meetup logo}}
|date=2018
|source=Meetup
|author=Meetup
|permission=
|other versions=
}}

=={{int:license-header}}==
{{PD-textlogo}}

[[Category:Logos]]

Uploading file to commons:commons...
Upload successful.
Upload of meetup_long.png successful.

1 pages read
1 pages written
Script terminated successfully.
```

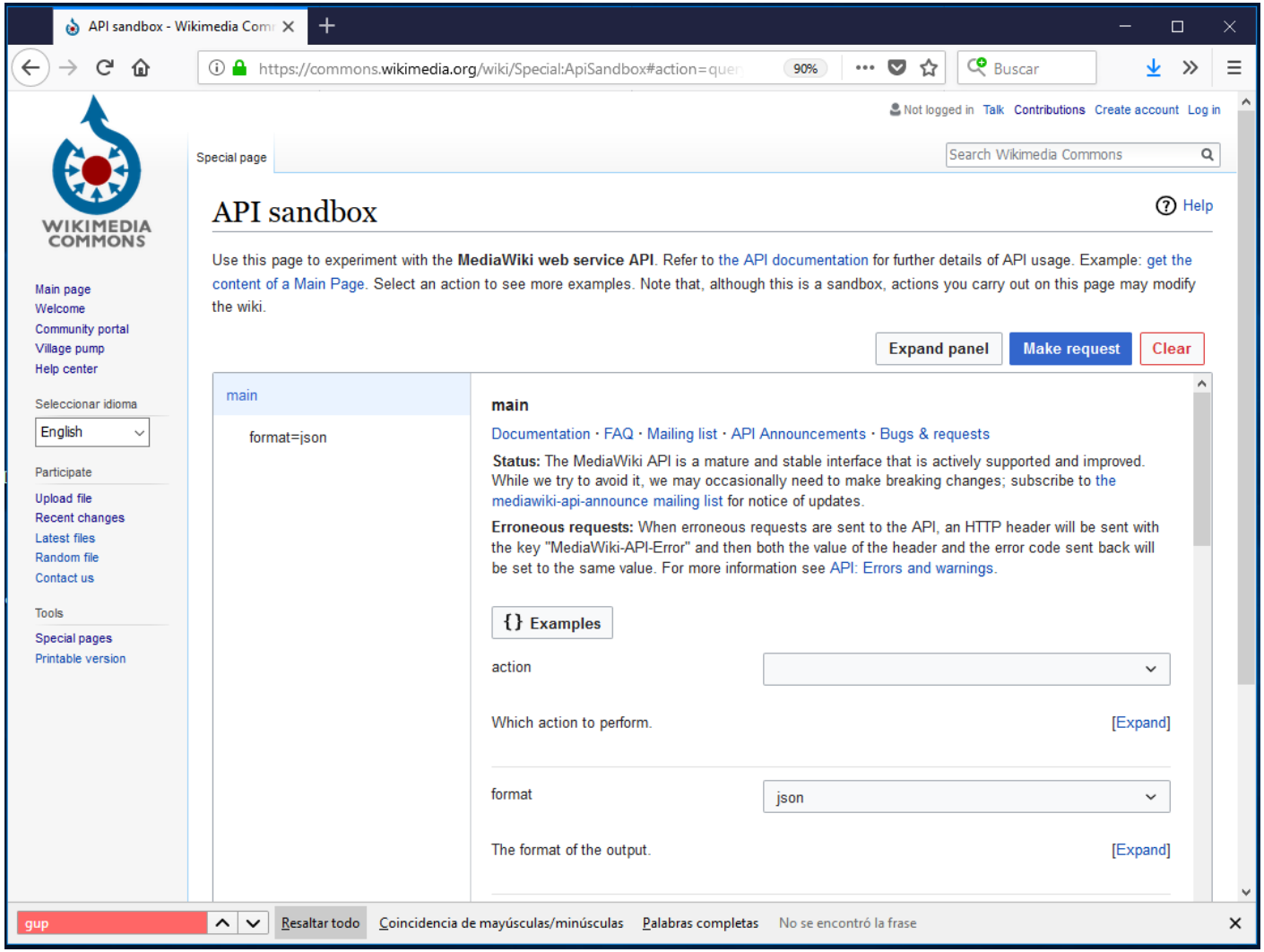
MediaWiki API

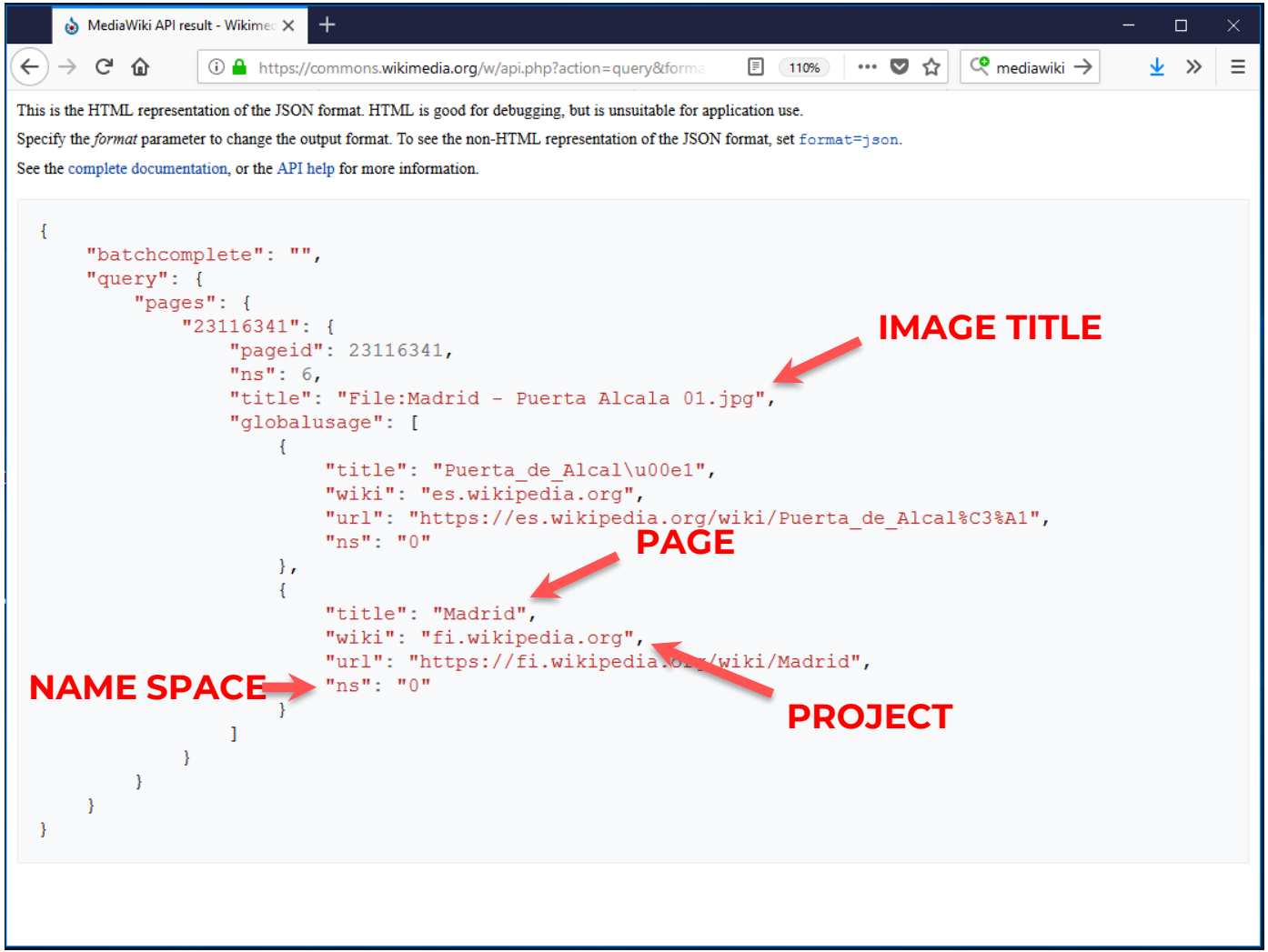
Another way to interact with the projects

The MediaWiki API

- The MediaWiki API is a web service that provides access to wiki features, data, and meta-data over HTTP, via a URL usually at `api.php`
- https://www.mediawiki.org/wiki/API:Main_page
- https://www.mediawiki.org/wiki/API:FAQ

URL elements


API sandbox - Wikimedia Com
https://commons.wikimedia.org/wiki/Special:ApiSandbox#action=quer
90%
Buscar
Not logged in Talk Contributions Create account Log in
Special page
Search Wikimedia Commons
WIKIMEDIA COMMONS
API sandbox
Help
Use this page to experiment with the MediaWiki web service API. Refer to the API documentation for further details of API usage. Example: get the content of a Main Page. Select an action to see more examples. Note that, although this is a sandbox, actions you carry out on this page may modify the wiki.
Main page
Welcome
Community portal
Village pump
Help center
Seleccionar idioma
English
Participate
Upload file
Recent changes
Latest files
Random file
Contact us
Tools
Special pages
Printable version
Expand panel
Make request
Clear
main
format=json
main
Documentation · FAQ · Mailing list · API Announcements · Bugs & requests
Status: The MediaWiki API is a mature and stable interface that is actively supported and improved. While we try to avoid it, we may occasionally need to make breaking changes; subscribe to the mediawiki-api-announce mailing list for notice of updates.
Erroneous requests: When erroneous requests are sent to the API, an HTTP header will be sent with the key "MediaWiki-API-Error" and then both the value of the header and the error code sent back will be set to the same value. For more information see API: Errors and warnings.
{} Examples
action
Which action to perform.
[Expand]
format
json
The format of the output.
[Expand]
gup
Resaltar todo
Coincidencia de mayúsculas/minúsculas
Palabras completas
No se encontró la frase


MediaWiki API result - Wikime
https://commons.wikimedia.org/w/api.php?action=query&forma
110%
mediawiki
This is the HTML representation of the JSON format. HTML is good for debugging, but is unsuitable for application use.
Specify the format parameter to change the output format. To see the non-HTML representation of the JSON format, set format=json.
See the complete documentation, or the API help for more information.
{
"batchcomplete": "",
"query": {
"pages": {
"23116341": {
"pageid": 23116341,
"ns": 6,
"title": "File:Madrid - Puerta Alcala 01.jpg",
"globalusage": [
{
"title": "Puerta_de_Alcal\u00e1",
"wiki": "es.wikipedia.org",
"url": "https://es.wikipedia.org/wiki/Puerta_de_Alcal%C3%A1",
"ns": "0"
},
{
"title": "Madrid",
"wiki": "fi.wikipedia.org",
"url": "https://fi.wikipedia.org/wiki/Madrid",
"ns": "0"
}
]
}
}
}
}
IMAGE TITLE
PAGE
NAME SPACE
PROJECT

In [1]:
```
import requests
import json
from urllib.parse import urlencode
import pprint
```

In [2]:
```
MW_API_BASE_URL    = 'https://commons.wikimedia.org/w/api.php'
MW_API_QUERYSTRING = { "action": "query",
                       "format": "json",
                       "prop": "globalusage",
                       "titles": "File:Madrid - Puerta Alcala 01.jpg",
                       "guprop": "url|namespace",
                       "gulimit": 50
                     }
```

In [3]:
```
r = requests.post(MW_API_BASE_URL, data=urlencode(MW_API_QUERYSTRING))
response = json.loads(r.text)
pp = pprint.PrettyPrinter(indent=4)
for _, value in response["query"]["pages"].items():
    pp.pprint(value["globalusage"])
```

```
[   {   'ns': '0',
        'title': 'Puerta_de_Alcalá',
        'url': 'https://es.wikipedia.org/wiki/Puerta_de_Alcal%C3%A1',
        'wiki': 'es.wikipedia.org'},
    {   'ns': '0',
        'title': 'Madrid',
        'url': 'https://fi.wikipedia.org/wiki/Madrid',
        'wiki': 'fi.wikipedia.org'}]
```

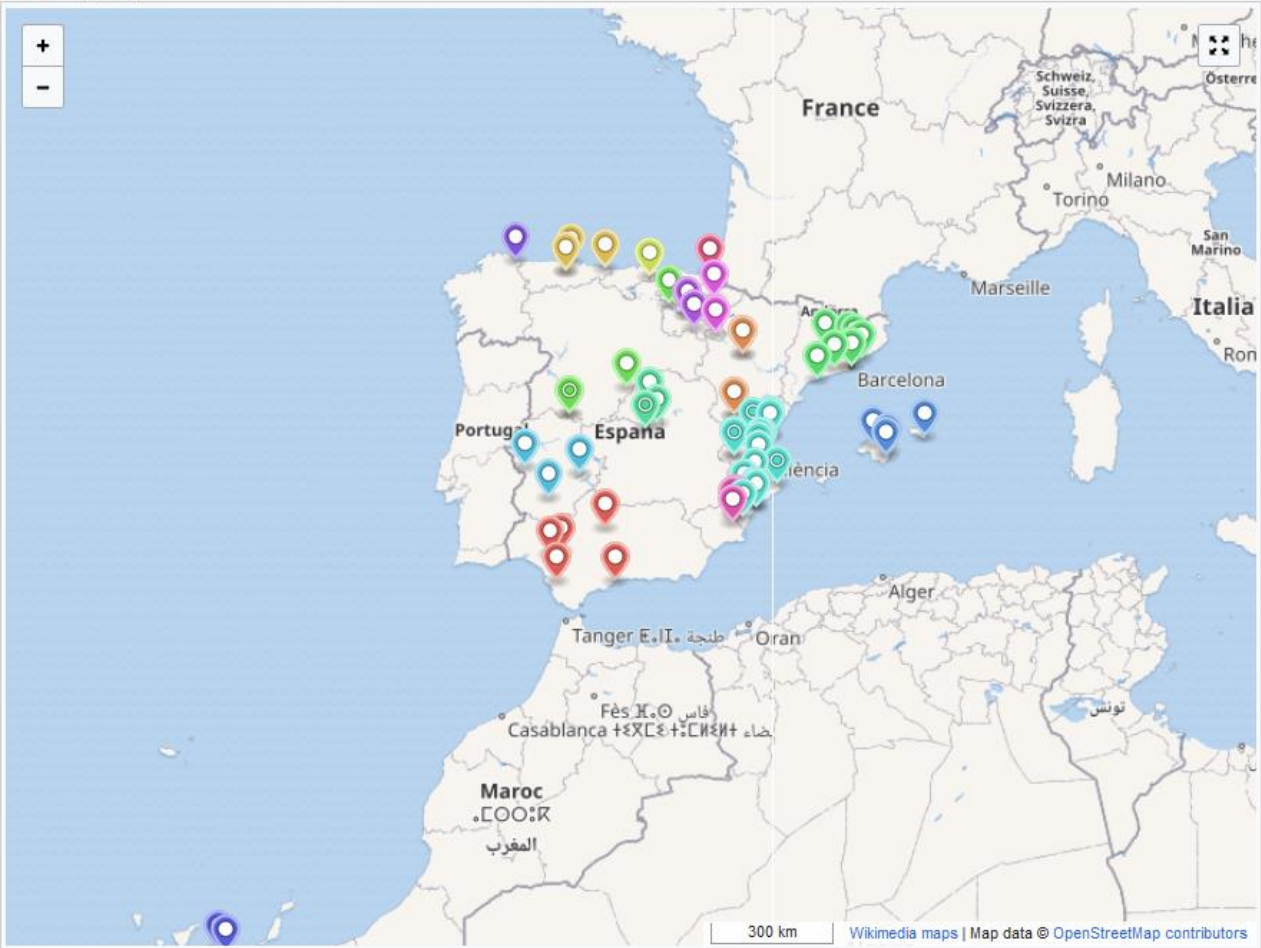
Extension:Kartographer

Maps capabilities in Wikimedia projects

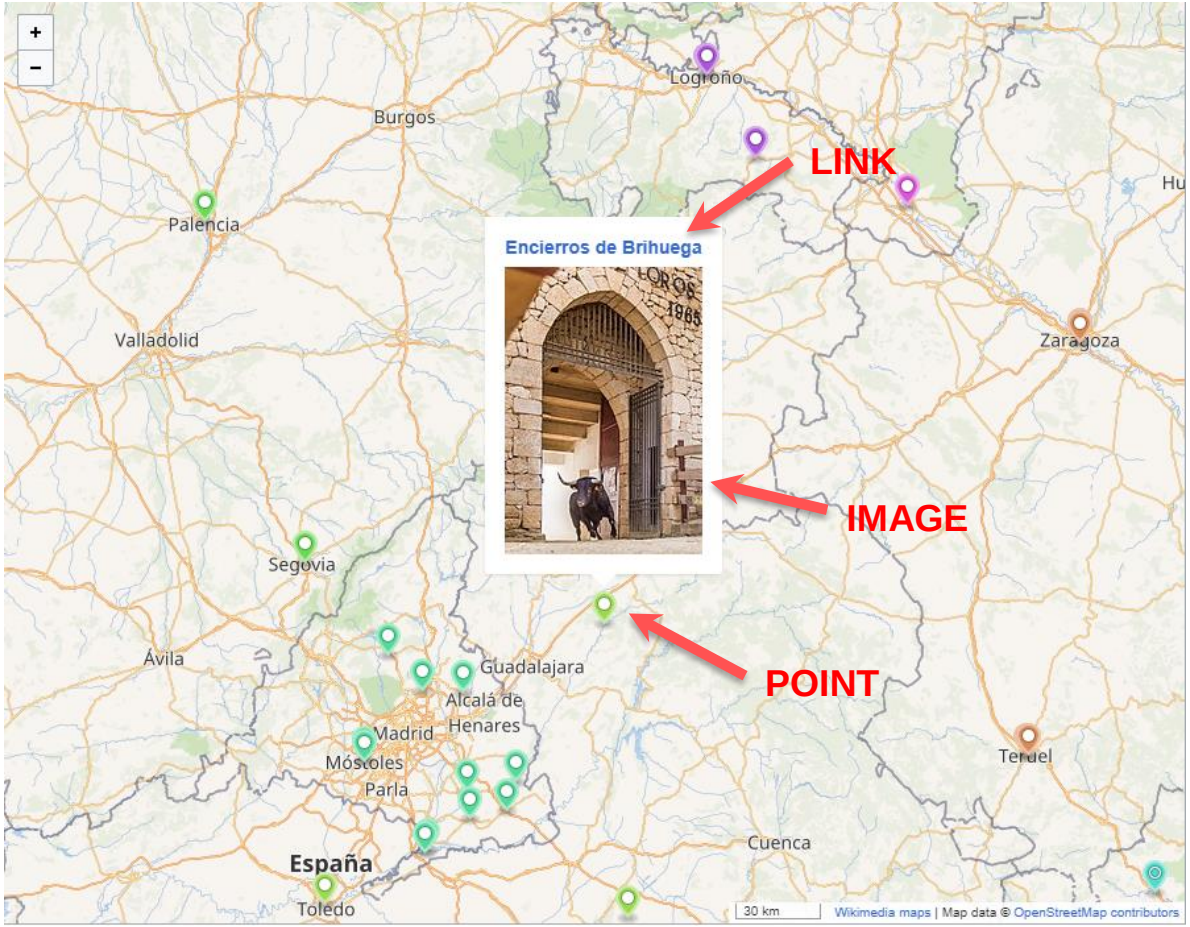
Extension: Kartographer

- A MediaWiki extension that adds maps capabilities to Wikimedia projects
- https://www.mediawiki.org/wiki/Help:Extension:Kartographer
- Based on OpenStreetMap
- Enabled by the `<mapframe>` tag within Wikimedia pages
- Content must be valid GeoJSON (http://geojson.org/)

Festivals map [edit]



Festivals


+
−
Logroño
Burgos
LINK
Palencia
Encierros de Brihuega
Valladolid
Zaragoza
IMAGE
Segovia
Ávila
Guadalajara
Alcalá de Henares
Madrid
Móstoles
Parla
POINT
Teruel
Cuenca
España
Toledo
30 km
Wikimedia maps | Map data © OpenStreetMap contributors

Wikitext

MAP CENTER

MAP SIZE

TAG

```
<mapframe text="Festivals" latitude="39" longitude="-4" zoom="5" width="800" height="600" align="center">
{
  "type": "FeatureCollection",
  "features": [
    {
      "type": "Feature",
      "geometry": {
        "type": "Point",
        "coordinates": [
          -0.375,
          39.46666666666667
        ]
      },
      "properties": {
        "description": "[[File:Fallas2017 Cremà Pio XI Fontanares 06.jpg|150px]]",
        "title": "[[:Category:Images of festival with code Q1143768|Falles de València]]",
        "marker-size": "small",
        "marker-symbol": "circle",
        "marker-color": "57dbcc"
      }
    }
  ]
}
</mapframe>
```

GeoJSON

```
<mapframe text="Festivals" latitude="39" longitude="-4" zoom="5" width="800" height="600" align="center">
{
  "type": "FeatureCollection",
  "features": [
    {
      "type": "Feature",
      "geometry": {
        "type": "Point",
        "coordinates": [
          -0.375,
          39.46666666666667
        ]
      },
      "properties": {
        "description": "[[File:Fallas2017 Cremà Pio XI Fontanares 06.jpg|150px]]",
        "title": "[[:Category:Images of festival with code Q1143768|Falles de València]]",
        "marker-size": "small",
        "marker-symbol": "circle",
        "marker-color": "57dbcc"
      }
    }
  ]
}
</mapframe>
```

FEATURE TYPE: *POINT*

COORDINATES

IMAGE

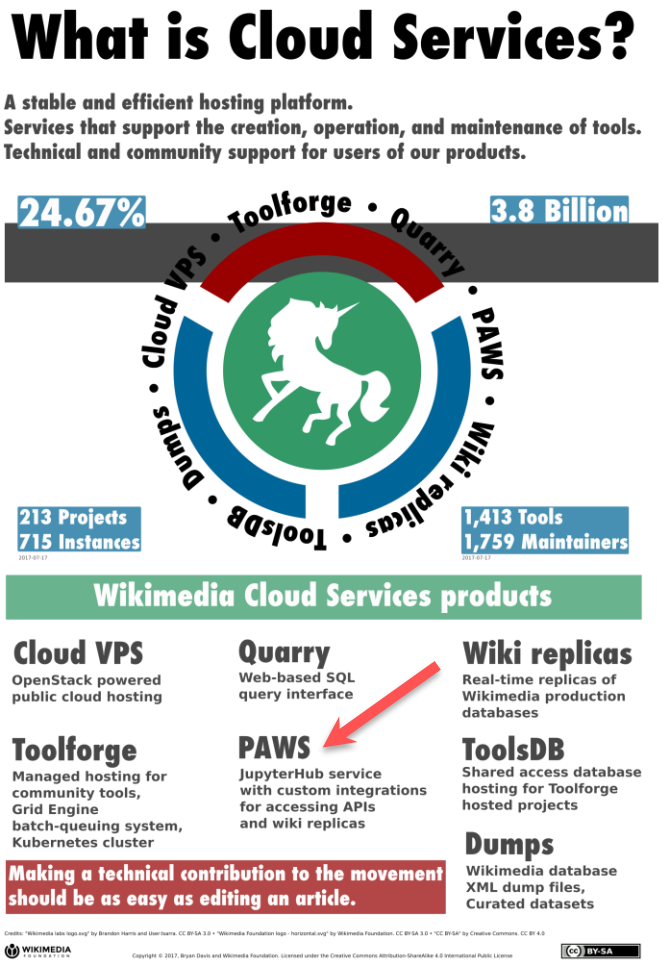
MARKER

LINK

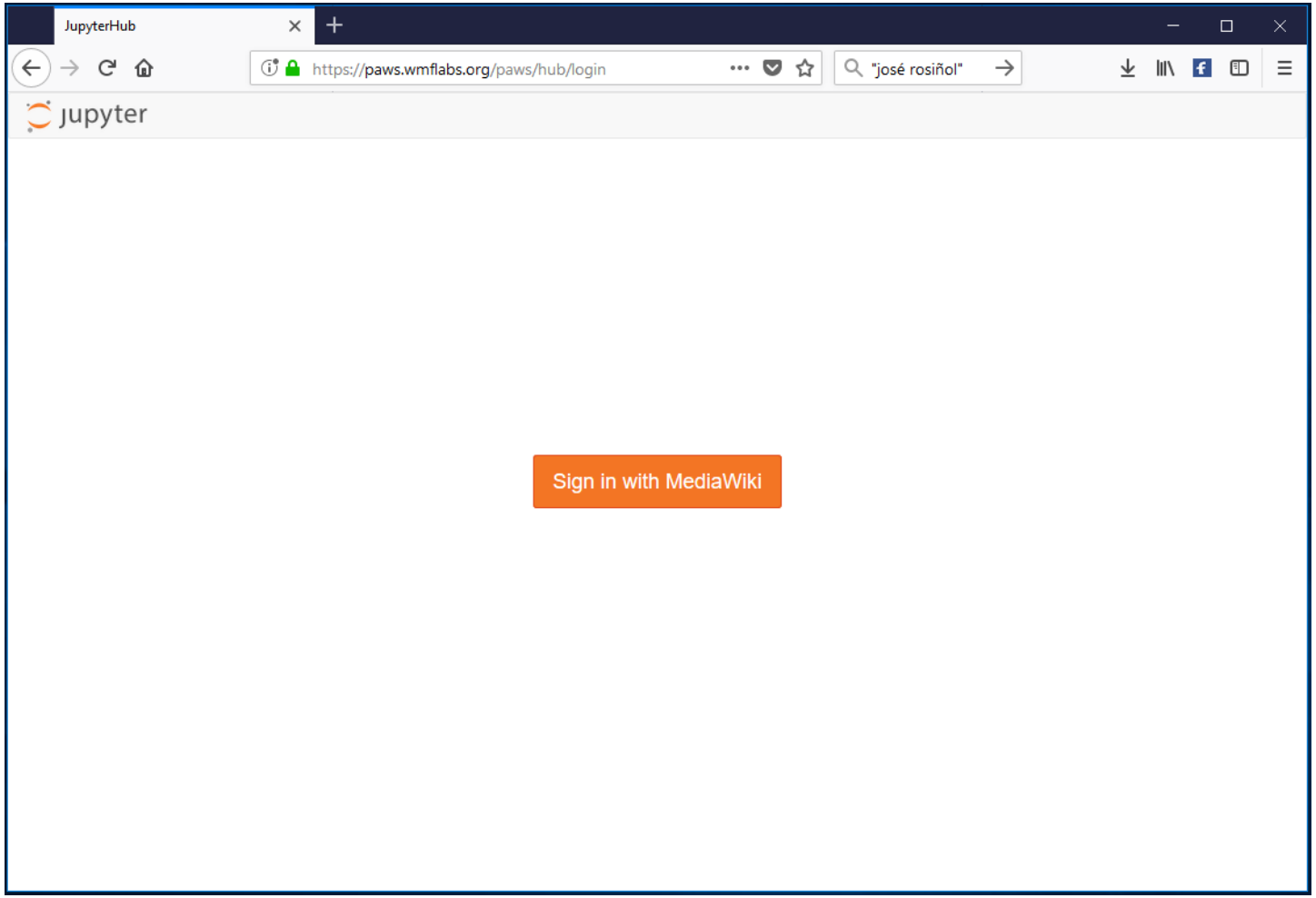
MARKER FEATURES

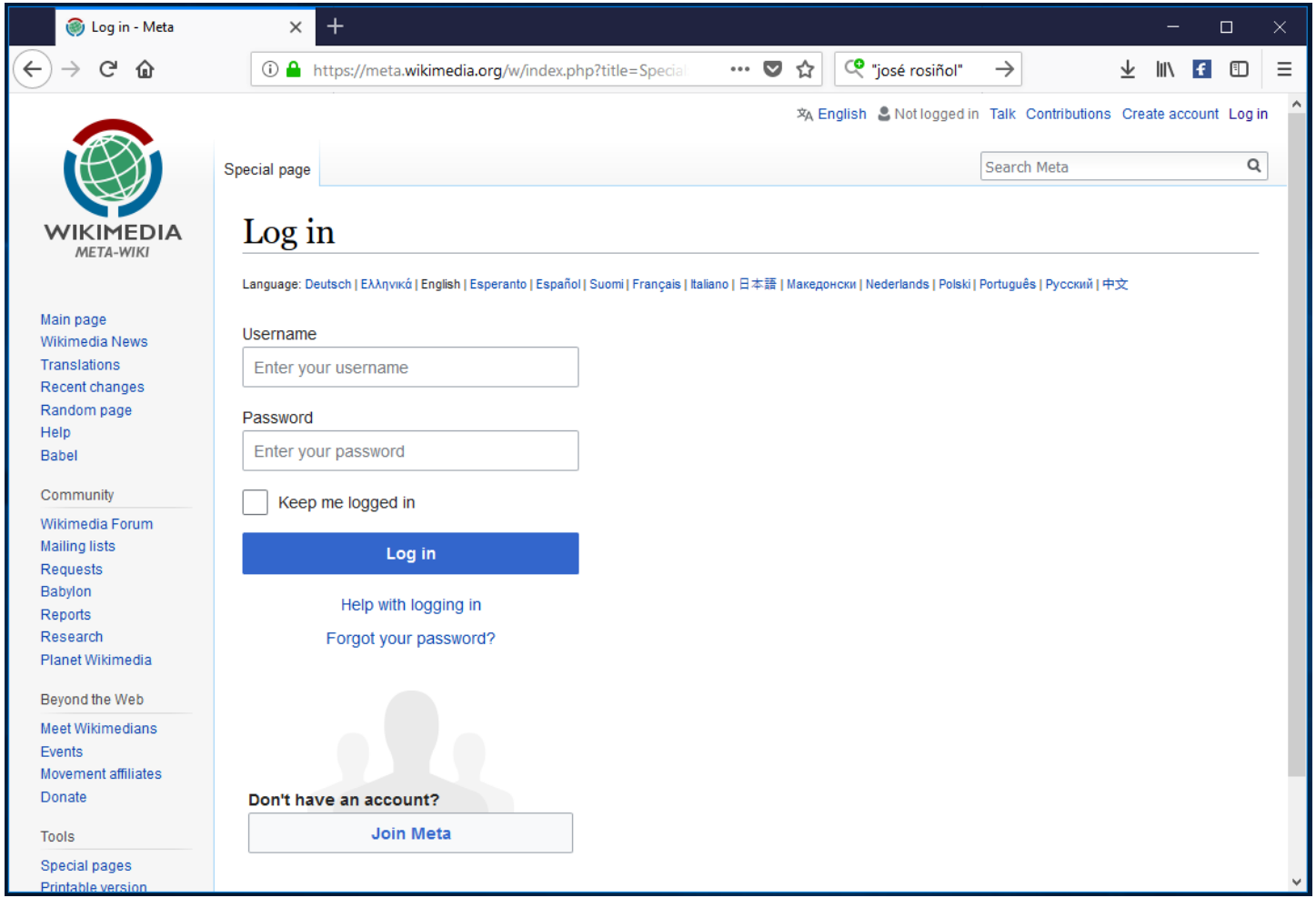
PAWS (Pywikibot: A Web Server)

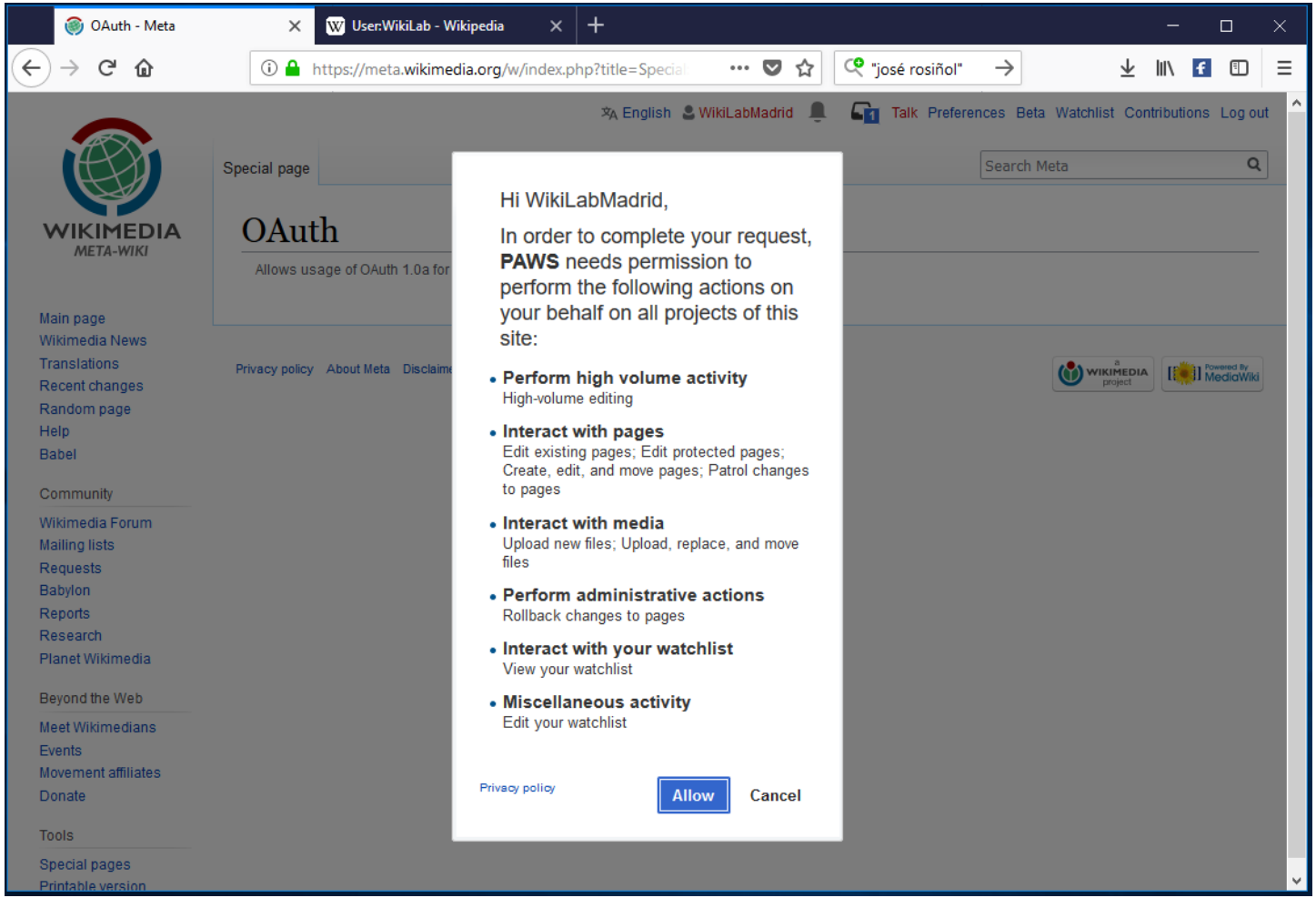
Local Pywikibot deployment not needed any more

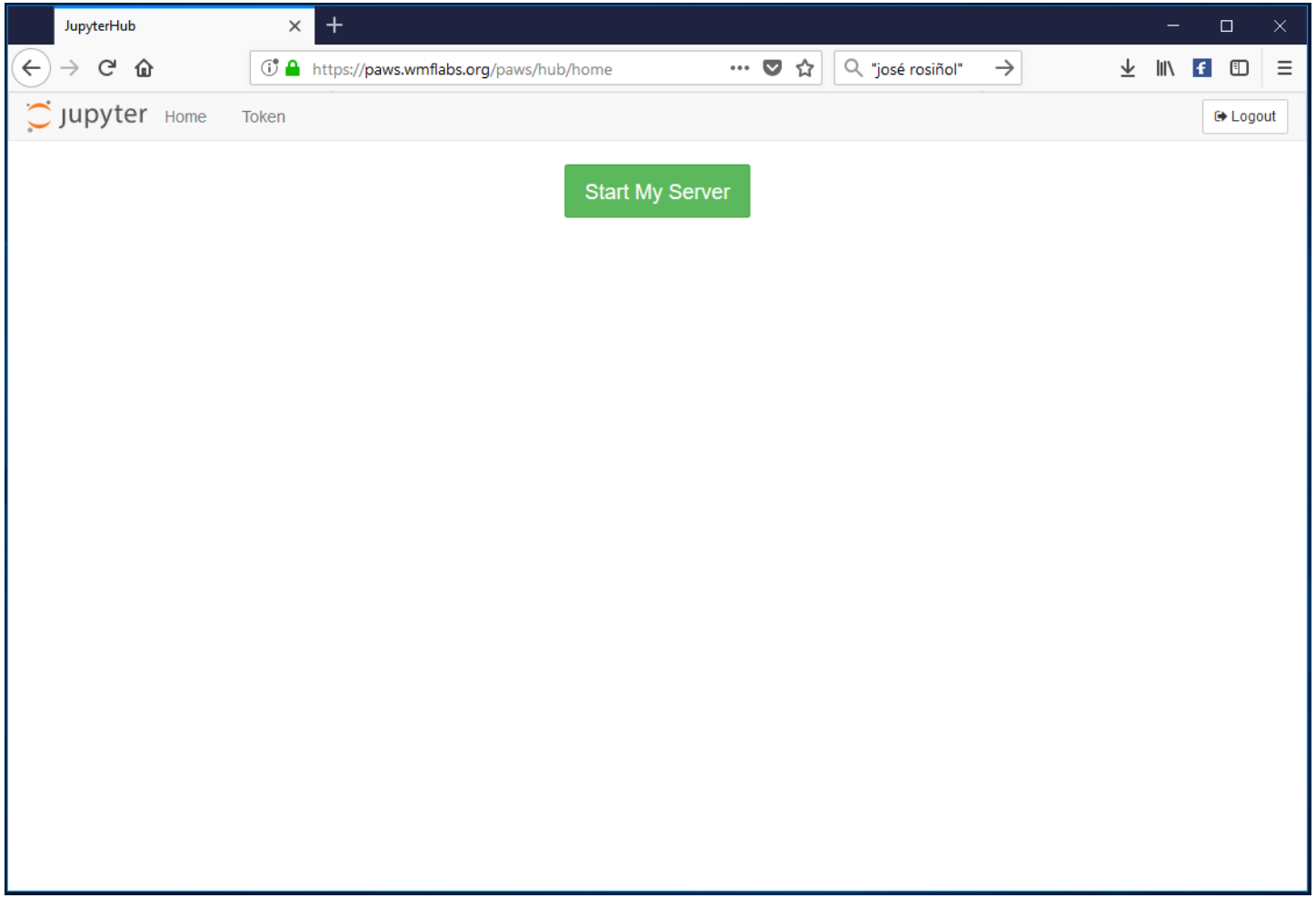


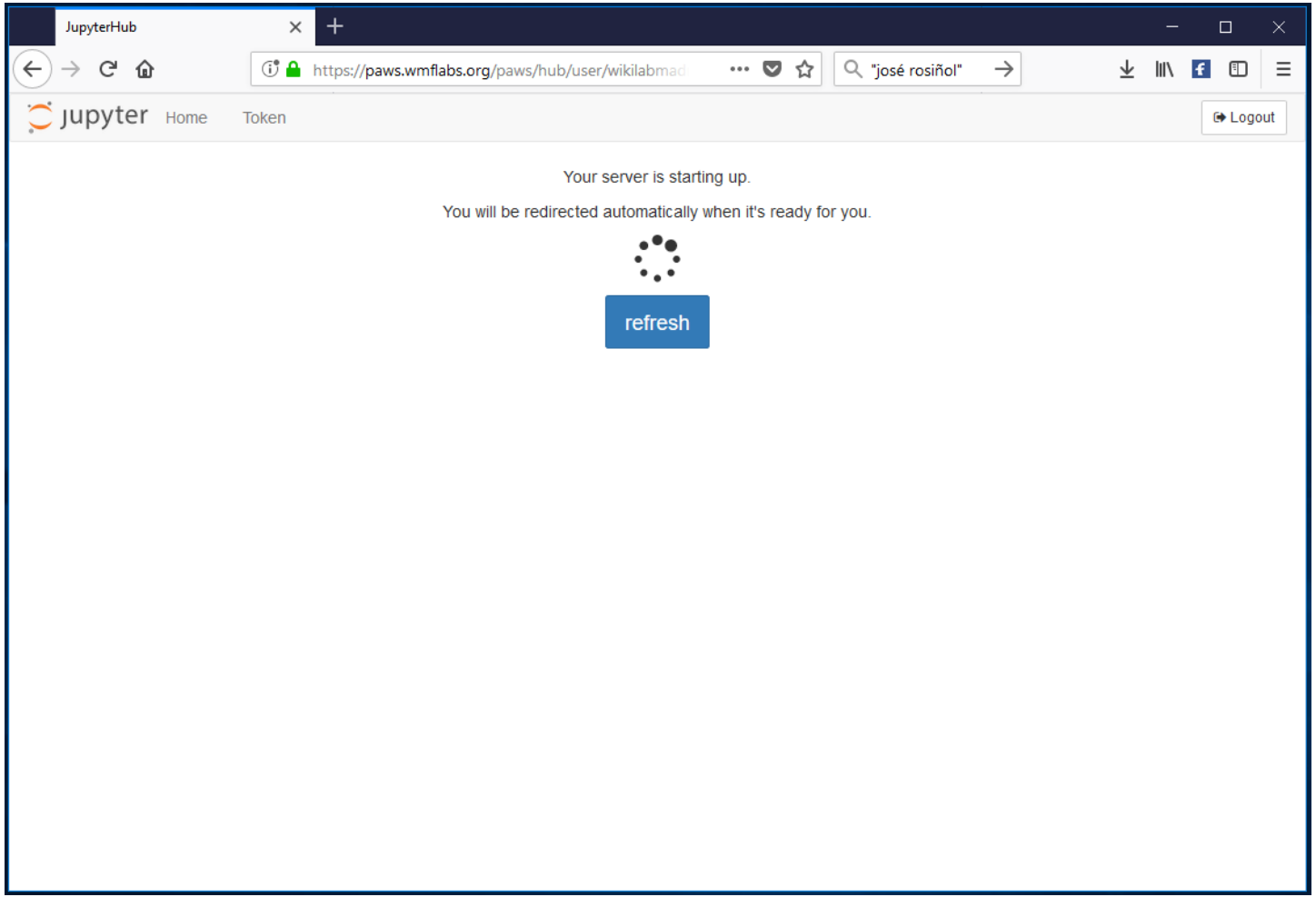
- PAWS is a Jupyter Notebook Server provided by the Wikimedia Cloud Services.
- Pre-integrated with Pywikibot and many other Python packages
- pip, Git available...
- Authenticated (OAuth) with your Wikimedia account.
- https://paws.wmflabs.org
- http://paws-public.wmflabs.org/paws-public/User:YOURUSERNAME/

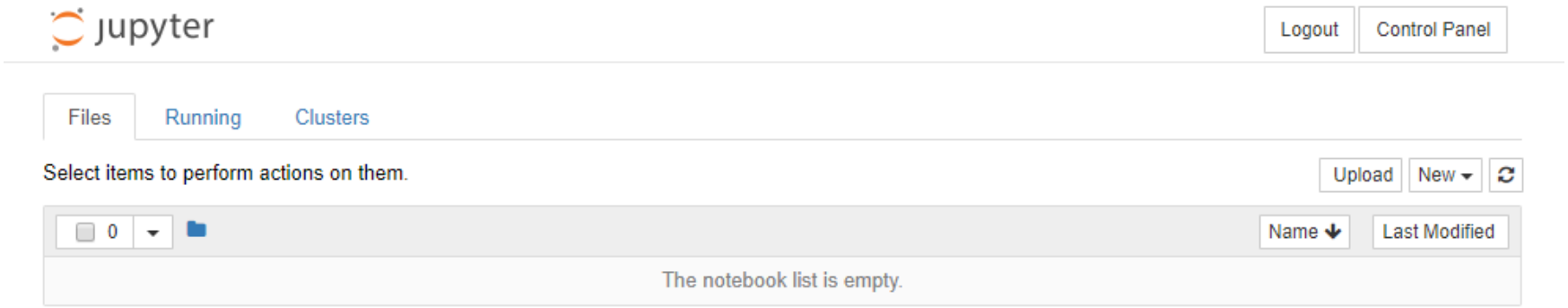

JupyterHub
https://paws.wmflabs.org/paws/hub/login
"josé rosiñol"
jupyter
Sign in with MediaWiki

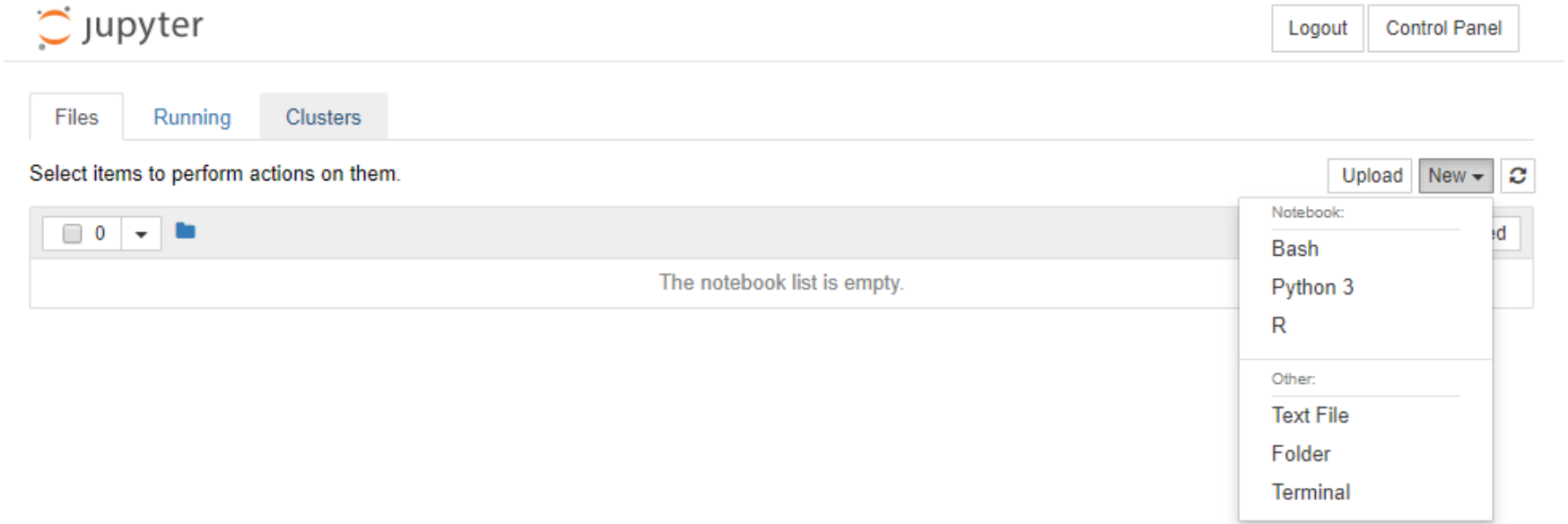

Log in - Meta
https://meta.wikimedia.org/w/index.php?title=Special
"josé rosiñol"
English
Not logged in
Talk
Contributions
Create account
Log in
WIKIMEDIA
META-WIKI
Special page
Search Meta
Log in
Language: Deutsch | Ελληνικά | English | Esperanto | Español | Suomi | Français | Italiano | 日本語 | Македонски | Nederlands | Polski | Português | Русский | 中文
Main page
Wikimedia News
Translations
Recent changes
Random page
Help
Babel
Community
Wikimedia Forum
Mailing lists
Requests
Babylon
Reports
Research
Planet Wikimedia
Beyond the Web
Meet Wikimedians
Events
Movement affiliates
Donate
Tools
Special pages
Printable version
Username
Enter your username
Password
Enter your password
Keep me logged in
Log in
Help with logging in
Forgot your password?
Don't have an account?
Join Meta

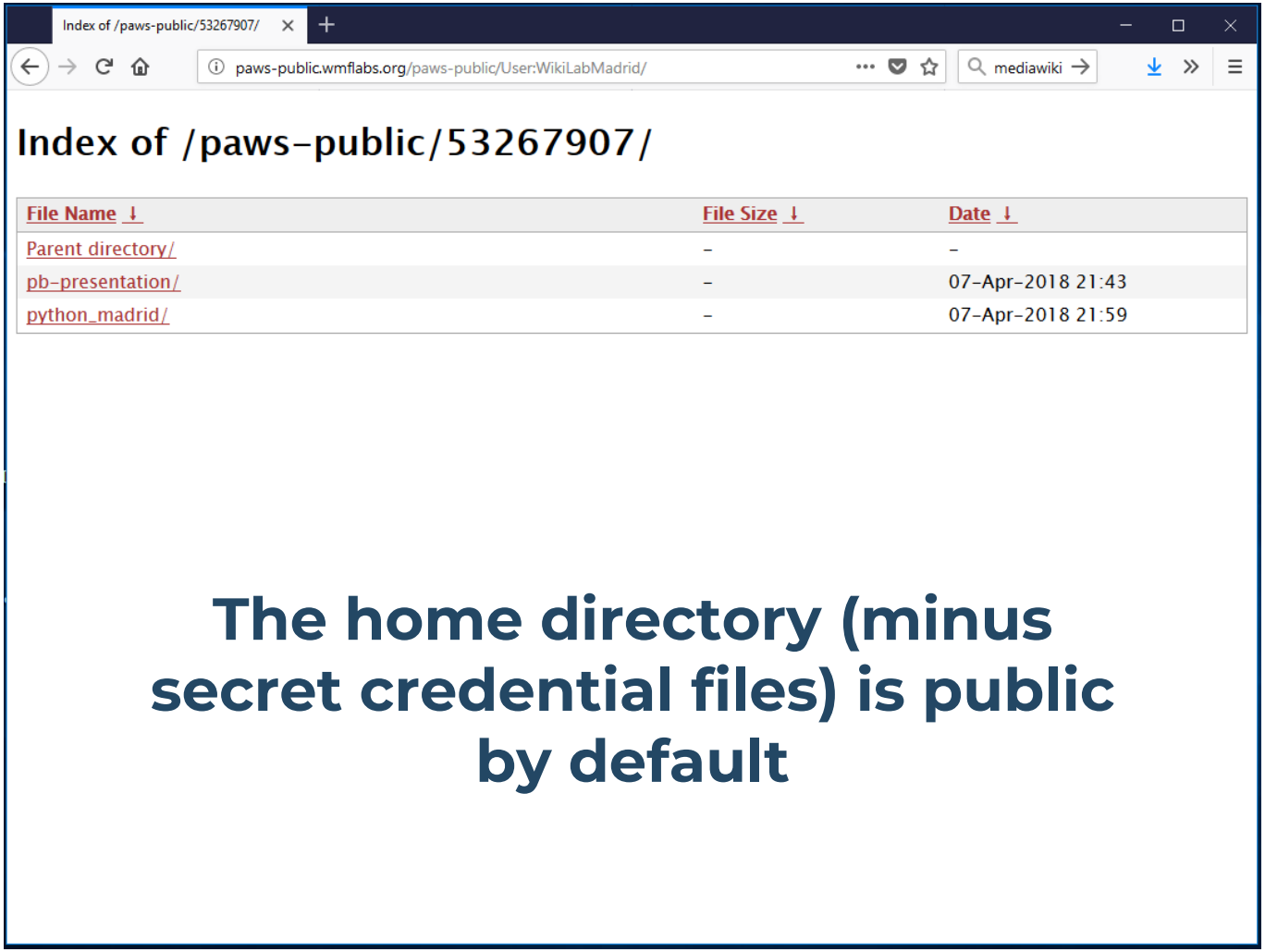

OAuth - Meta
User:WikiLab - Wikipedia
https://meta.wikimedia.org/w/index.php?title=Special
"josé rosiñol"
English
WikiLabMadrid
Talk
Preferences
Beta
Watchlist
Contributions
Log out
Special page
Search Meta
WIKIMEDIA
META-WIKI
OAuth
Allows usage of OAuth 1.0a for
Main page
Wikimedia News
Translations
Recent changes
Random page
Help
Babel
Community
Wikimedia Forum
Mailing lists
Requests
Babylon
Reports
Research
Planet Wikimedia
Beyond the Web
Meet Wikimedians
Events
Movement affiliates
Donate
Tools
Special pages
Printable version
Privacy policy
About Meta
Hi WikiLabMadrid,
In order to complete your request, PAWS needs permission to perform the following actions on your behalf on all projects of this site:
Perform high volume activity
High-volume editing
Interact with pages
Edit existing pages; Edit protected pages; Create, edit, and move pages; Patrol changes to pages
Interact with media
Upload new files; Upload, replace, and move files
Perform administrative actions
Rollback changes to pages
Interact with your watchlist
View your watchlist
Miscellaneous activity
Edit your watchlist
Privacy policy
Allow
Cancel


JupyterHub
https://paws.wmflabs.org/paws/hub/home
"josé rosiñol"
jupyter
Home
Token
Logout
Start My Server


JupyterHub
https://paws.wmflabs.org/paws/hub/user/wikilabmad
"josé rosiñol"
jupyter
Home
Token
Logout
Your server is starting up.
You will be redirected automatically when it's ready for you.
refresh


jupyter
Logout
Control Panel
Files
Running
Clusters
Select items to perform actions on them.
Upload
New
0
Name
Last Modified
The notebook list is empty.


jupyter
Logout
Control Panel
Files
Running
Clusters
Select items to perform actions on them.
Upload
New
0
The notebook list is empty.
Notebook:
Bash
Python 3
R
Other:
Text File
Folder
Terminal



The home directory (minus secret credential files) is public by default

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Thank you!

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miguelangelmonjas@wikimedia.es