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# **django-sysinfo Documentation**

***Release 1.3.2***

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# CHAPTER 1

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## django-sysinfo

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Simple django app to expose system infos like libraries version, database server.

Easy to extend to add custom checks.

## 1.1 Features

- dump system informations
- check API to add custom checks
- simple echo
- retrieve library version

## 1.2 Quickstart

Install django-sysinfo:

```
pip install django-sysinfo
```

put it in your *INSTALLED\_APPS*:

```
INSTALLED_APPS=[...  
    'django_sysinfo'  
]
```

add relevant entries in your url.conf:

```
urlpatterns = (
    ....
    url(r'', include(django_sysinfo.urls)),
)
```

or customize them:

```
from django_sysinfo.views import http_basic_login, sysinfo


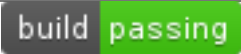
urlpatterns = (
    url('sys/info/$', http_basic_login(sysinfo), name='sys-info'),
    url('sys/version/(?P<name>.*)/$', version, name='sys-version')
)
```

## 1.3 Known issues and limitations

There are some limitations in the metrics returned by sysinfo, anyway this package is not intended to be used as host/resources monitoring tool.

- Disk space returns device info, any soft limits are ignored
- Memory can be wrong in some virtual environments

### 1.3.1 Links

Stable			
Development			
Project home page:	<a href="https://github.com/saxix/django-sysinfo">https://github.com/saxix/django-sysinfo</a>		
Issue tracker:	<a href="https://github.com/saxix/django-sysinfo/issues?sort">https://github.com/saxix/django-sysinfo/issues?sort</a>		
Download:	<a href="http://pypi.python.org/pypi/django-sysinfo/">http://pypi.python.org/pypi/django-sysinfo/</a>		
Documentation:	<a href="https://django-sysinfo.readthedocs.org/en/latest/">https://django-sysinfo.readthedocs.org/en/latest/</a>		



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### Installation methods

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**Note:** It is recommended that you always use the latest release of django-sysinfo with the latest release of Django. If you are using an older version of Django, then please check out the [Compatible Django Versions](#) page for more information.

For information on configuring django-sysinfo, see the getting started guide.

#### 2.1 pip

You can install django-sysinfo into your system, or virtual environment, by running the following command in a terminal:

```
$ pip install django-sysinfo
```

#### 2.2 easy\_install

The popular easy\_install utility can be used to install the latest django-sysinfo release from the Python Package Index. Simply run the following command in a terminal:

```
$ sudo easy_install django-sysinfo
```

#### 2.3 Git

Using Git to install django-sysinfo provides an easy way of upgrading your installation at a later date. Simply clone the [public git repository](#) and symlink the `src/sysinfo` directory into your `PYTHONPATH`:

```
$ git clone git://github.com/etianen/django-sysinfo.git
$ cd django-sysinfo.git
$ git checkout release-1.9.3
$ ln -s src/sysinfo /your/pythonpath/location/sysinfo
```

### 3.1 Configure

It possible to include/exclude each session, custom callable and add checks available thru the *check* url

```
SYSINFO = { "os": False,
            "modules": False,
            "python": False,
            "host": False,
            "extra": {},
            "checks": {},
            "project": {
                "mail": False,
                "installed_apps": False,
                "databases": False,
                "MEDIA_ROOT": False,
                "STATIC_ROOT": False,
                "CACHES": False
            }
        }
```

### 3.2 Sections

#### 3.2.1 Host

```
"host": {
    "hostname": "host1",
    "fqdn": "host1.org",
    "cpus": 4,
    "network": {
        "en0": [
            "192.168.1.100/255.255.255.0"
```

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```

    ],
    "lo0": [
        "127.0.0.1/255.0.0.0",
        "192.168.66.66/None"
    ]
},
"memory": {
    "percent": "74.5 bytes",
    "used": "5.0 GB",
    "available": "2.0 GB",
    "free": "64.0 MB",
    "total": "8.0 GB"
}
}

```

### 3.2.2 OS

```

"os": {
    "uname": [
        "Darwin",
        "host1.local",
        "16.4.0",
        "Darwin Kernel Version 16.4.0: Thu Dec 22 22:53:21 PST 2016; root:xnu-3789.41.3~3/
↪RELEASE_ARM_T8020_2",
        "arm64"
    ],
    "name": "posix"
},

```

### 3.2.3 Python

```

"python": {
    "executable": "/data/ENV/bin/python",
    "version": "2.7.13",
    "platform": "darwin",
    "info": "2.7.13 (default, Mar 10 2017, 12:55:49) \n[GCC 4.2.1 Compatible Apple LLVM
↪8.0.0 (clang-800.0.42.1)]",
    "maxunicode": [
        65535,
        "WARN"
    ]
},

```

### 3.2.4 Modules

```

"modules": {"alabaster": "0.7.7",
            "apipkg": "1.4",
            "django": "1.9.1",
            "pytest": "2.8.5",
            "xlwt-future": "0.8.0"},

```

### 3.2.5 Project

```
"project": {
  "current_dir": "/data/PROJECTS/django-sysinfo",
  "tempdir": "/var/folders/vy/jjqmc4bj38z2rj90qzhwsczw0000gn/T",
},
```

#### installed\_apps

```
"installed_apps": [
  [
    "django_sysinfo",
    "0.4a20160403211457"
  ]
]
```

#### MEDIA\_ROOT

```
"MEDIA_ROOT": {
  "path": "/data/PROJECTS/django-sysinfo/tests/demo/demoproject/media",
  "disk": {
    "used": "288.0 GB",
    "free": "176.0 GB",
    "total": "464.0 GB"
  }
},
```

#### STATIC\_ROOT

```
"STATIC_ROOT": {
  "path": "/data/PROJECTS/django-sysinfo/tests/demo/demoproject/static",
  "disk": {
    "used": "288.0 GB",
    "free": "176.0 GB",
    "total": "464.0 GB"
  }
},
```

#### CACHES

```
"CACHES": {
  "default": {
    "LOCATION": "unique-snowflake",
    "BACKEND": "django.core.cache.backends.dummy.DummyCache"
  }
},
```

## Databases

```
"databases": {"default": {"engine": "django.db.backends.postgresql_psycopg2",
                          "host": "127.0.0.1:",
                          "name": "sysinfo",
                          "server": "PostgreSQL 9.4.3 on x86_64-apple-darwin14.3.0,
↳ compiled by Apple LLVM version 6.1.0 (clang-602.0.53) (based on LLVM 3.6.0svn), 64-
↳ bit",
                          "timezone": "UTC",
                          "version": "9.4.3"},
  "sqlite": {"engine": "django.db.backends.sqlite3",
             "host": ":",
             "name": ":memory:",
             "server": "3.8.10.2",
             "timezone": "UTC",
             "version": "3.8.10.2"}}
```

## Mail

```
"mail" : {"backend": "django.core.mail.backends.locmem.EmailBackend",
          "host": "localhost:25",
          "tls": "false",
          "ssl": "false",
          "status": "OK"}
```

### 3.2.6 EXTRA

New entries can be added using the extra entry in the configuration.

in your settings

```
SYSINFO = {"extra": { "my-entry", "path.to.myfunc"}}
```

in your path.to package

```
def myfunc(request):
    return "this is my complex function"
```

result

```
"extra" : {"my-entry": "this is my complex function"}
```

## CHAPTER 4

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### Sample output

---

#### 4.1 JSON

```
{
  "host": {
    "hostname": "host1",
    "fqdn": "host1.org",
    "cpus": 4,
    "network": {
      "en0": [
        "192.168.1.100/255.255.255.0"
      ],
      "lo0": [
        "127.0.0.1/255.0.0.0",
        "192.168.66.66/None"
      ]
    },
    "memory": {
      "percent": "74.5 bytes",
      "used": "5.0 GB",
      "available": "2.0 GB",
      "free": "64.0 MB",
      "total": "8.0 GB"
    }
  },
  "os": {
    "uname": [
      "Darwin",
      "host1.local",
      "16.4.0",
      "Darwin Kernel Version 16.4.0: Thu Dec 22 22:53:21 PST 2016; root:xnu-3789.41.3~
↪ 3/RELEASE_ARM_T8020",
      "x86_64"
    ],
  },
}
```

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```

    "name": "posix"
  },
  "python": {
    "executable": "/data/ENV/si/bin/python",
    "version": "2.7.13",
    "platform": "darwin",
    "info": "2.7.13 (default, Mar 10 2017, 12:55:49) \n[GCC 4.2.1 Compatible Apple_
↪LLVM 8.0.0 (clang-800.0.42.1)]",
    "maxunicode": [
      65535,
      "WARN"
    ],
  },
  "modules": {
    "alabaster": "0.7.7",
    "apipkg": "1.4",
    "django": "1.9.1",
    "pytest": "2.8.5",
    "xlwt-future": "0.8.0"
  }
},
"project": {
  "current_dir": "/data/PROJECTS/django-sysinfo",
  "tempdir": "/var/folders/vy/jjqmc4bj38z2rj90qzhwsczw0000gn/T",
  "MEDIA_ROOT": {
    "path": "/data/PROJECTS/django-sysinfo/tests/demo/demoproject/media",
    "disk": {
      "used": "288.0 GB",
      "free": "176.0 GB",
      "total": "464.0 GB"
    }
  },
  "STATIC_ROOT": {
    "path": "/data/PROJECTS/django-sysinfo/tests/demo/demoproject/static",
    "disk": {
      "used": "288.0 GB",
      "free": "176.0 GB",
      "total": "464.0 GB"
    }
  },
  "CACHES": {
    "default": {
      "LOCATION": "unique-snowflake",
      "BACKEND": "django.core.cache.backends.dummy.DummyCache"
    }
  },
  "installed_apps": [
    [
      "django_sysinfo", "0.4a20160403211457"
    ]
  ]
},
"databases": {
  "default": {
    "engine": "django.db.backends.postgresql_psycopg2",
    "host": "127.0.0.1:",
    "name": "sysinfo",
    "version": "9.6.1",

```

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```
    "encoding": "UTF8",
    "collate": "en_US.UTF-8",
    "ctype": "en_US.UTF-8",
    "isolation_level": null,
    "timezone": "UTC",
    "info": "PostgreSQL 9.6.1 on x86_64-apple-darwin15.6.0, compiled by Apple LLVM_
↪version 8.0.0 (clang-800.0.42.1), 64-bit"
  },
  "sqlite": {
    "engine": "django.db.backends.sqlite3",
    "host": ":",
    "name": ":memory:",
    "version": "3.14.0"
  }
}
```



4.2 HTML

Mercury

Home > sysinfo

System Information

Project - Python - OS - Modules - Host

Project

current\_dir

/data/PROJECT/saxix/mercury

tempdir

/var/folders/vy/jjgmc4b39a2j09qzlwsczw0060gr/T

MEDIA\_ROOT

/data/PROJECT/saxix/mercury/mercury/media

STATIC\_ROOT

/data/PROJECT/saxix/mercury/src/mercury/staticfiles

CACHES

default

BACKEND

django.core.cache.backends.locmem.LocMemCache

installed\_apps

admin\_extra\_urls

1.8.0

django.contrib.admin

2.0.2

django.contrib.auth

2.0.2

django.contrib.contenttypes

2.0.2

django.contrib.humanize

2.0.2

django.contrib.messages

2.0.2

django.contrib.sessions

2.0.2

django.contrib.sites

2.0.2

django.contrib.staticfiles

2.0.2

django\_sysinfo

1.3.0a0

jsoneditor

0.0.12

mercury

0.1

mail

backend

django.core.mail.backends.locmem.EmailBackend

host

localhost:1025

TLS

False

SSL

False

status

OK

Python

executable

/data/ENV/3sax/bin/python

version

3.6.3

platform

darwin

info

3.6.3 (default, Dec 14 2017, 14:52:42) [GCC 4.2.1 Compatible Apple LLVM 9.0.0 (clang-900.0.39.2)]

maxunicode

(1114111, 'OK')

Os

uname

posix.uname\_result(sysname='Darwin', nodename='jeeg-3.local', release='17.4.0', version='Darwin Kernel Version 17.4.0: Sun Dec 17 09:19:54 PST 2017; root:xnu-4570.41.2~1/RELEASE\_ARM\_T8020', machine='arm64t8020')

name

posix

Host

hostname

jeeg-3.local

fqdn

jeeg-3.local

cpus

4

network

lo0

127.0.0.1/255.0.0.0

en0

10.82.54.81/255.255.0.0

memory

total

8.0 GB

available

2.2 GB

percent

72.0 bytes

used

6.3 GB

free

62.4 MB

Modules

admin-extra-urls

1.8.0

amqp

2.2.2

apipkg

1.4

appnope

0.1.0

argh

0.26.2

arrow

0.12.0

cryptography

2.1.4

4.2. HTML

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Contributions are welcome, and they are greatly appreciated! Every little bit helps, and credit will always be given. You can contribute in many ways:

## 5.1 Types of Contributions

### 5.1.1 Report Bugs

Report bugs at <https://github.com/saxix/django-sysinfo/issues>.

If you are reporting a bug, please include:

- Your operating system name and version.
- Any details about your local setup that might be helpful in troubleshooting.
- Detailed steps to reproduce the bug.

### 5.1.2 Fix Bugs

Look through the GitHub issues for bugs. Anything tagged with “bug” is open to whoever wants to implement it.

### 5.1.3 Implement Features

Look through the GitHub issues for features. Anything tagged with “feature” is open to whoever wants to implement it.

### 5.1.4 Write Documentation

django-sysinfo could always use more documentation, whether as part of the official django-sysinfo docs, in docstrings, or even on the web in blog posts, articles, and such.

### 5.1.5 Submit Feedback

The best way to send feedback is to file an issue at <https://github.com/saxix/django-sysinfo/issues>.

If you are proposing a feature:

- Explain in detail how it would work.
- Keep the scope as narrow as possible, to make it easier to implement.
- Remember that this is a volunteer-driven project, and that contributions are welcome :)

## 5.2 Get Started!

Ready to contribute? Here's how to set up *django-sysinfo* for local development.

1. Fork the *django-sysinfo* repo on GitHub.
2. Clone your fork locally:

```
$ git clone git@github.com:your_name_here/django-sysinfo.git
```

3. Install your local copy into a virtualenv. Assuming you have virtualenvwrapper installed, this is how you set up your fork for local development:

```
$ mkvirtualenv django-sysinfo
$ cd django-sysinfo/
$ make develop
```

4. Create a branch for local development:

```
$ git checkout -b name-of-your-bugfix-or-feature
```

Now you can make your changes locally.

5. When you're done making changes, check that your changes pass flake8 and the tests, including testing other Python versions with tox:

```
$ make qa
$ py.test tests
$ tox
```

To get flake8 and tox, just pip install them into your virtualenv.

6. Commit your changes and push your branch to GitHub:

```
$ git add .
$ git commit -m "Your detailed description of your changes."
$ git push origin name-of-your-bugfix-or-feature
```

7. Submit a pull request through the GitHub website.

## 5.3 Pull Request Guidelines

Before you submit a pull request, check that it meets these guidelines:

1. The pull request should include tests.
2. If the pull request adds functionality, the docs should be updated. Put your new functionality into a function with a docstring, and add the feature to the list in README.rst.
3. The pull request should work for Python 2.7, and 3.5, and for PyPy. Check [https://travis-ci.org/saxix/django-sysinfo/pull\\_requests](https://travis-ci.org/saxix/django-sysinfo/pull_requests) and make sure that the tests pass for all supported Python versions.

## 5.4 Tips

To run a subset of tests:

```
$ py.test tests/<test_filename>::<test_name>>
```





## CHAPTER 6

---

Credits

---

### 6.1 Development Lead

- Stefano Apostolico <s.apostolico@gmail.com>

### 6.2 Contributors

None yet. Why not be the first?



### 7.1 1.3.2 (05 Jul 2018)

- removes pip dependency

### 7.2 1.3.1 (23 Feb 2018)

- add *extra* section to html output
- minor changes to html output

### 7.3 1.3 (10 Feb 2018)

- add HTML info page
- Dropped support for old Django (<1.9) versions and Python 2.6
- Django 2.0 support has been added.

### 7.4 1.2 16 Aug 2017

- fixex python 3.6 compatibility
- new config ‘\_ttl’ to set cache max\_age attribute

### 7.5 1.1 14 Jul 2017

- Django 1.11 compatibility

- handle broken database connections
- add new mail server informations
- new 'checks' API
- BACKWARD INCONPATIBLE: new config format

## 7.6 1.0 (15 Mar 2017)

- fixes error in json serialization
- BACKWARD INCOMPATIBLE: by default all the sections are disabled
- allow both string and callable in extra section
- added new configuration parameters
- new management command

## 7.7 0.3 (27 Mar 2016)

- dropped support Django<1.6
- add *settings.SYSINFO\_USERS* to manage access
- default Basic Authentication protected urls
- removed 'sys' prefix from default urlpatterns
- new 'echo' endpoint

## 7.8 0.2 (13 Feb 2016)

- add some infos
- output sorted to improve readability
- add ability to filter sections (?s=os,python)
- add CACHES infos
- removed command line utility

## 7.9 0.1.1 (20 Jan 2016)

- improved coverage
- fixes typos in copyright

## 7.10 0.1.0 (15 Jan 2015)

- First release on PyPI.