## Contents

1 Installation .......................... 1
   1.1 Getting the code .................. 1
   1.2 Prerequisites ...................... 1
   1.3 Setting up URLconf ................. 2
   1.4 Enabling middleware ............... 2
   1.5 Configuring Internal IPs ......... 2

2 Configuration ......................... 5
   2.1 DEBUG_TOOLBAR_PANELS ............ 5
   2.2 DEBUG_TOOLBAR_CONFIG ............ 6

3 Tips ................................ 9
   3.1 The toolbar isn’t displayed! ..... 9
   3.2 Performance considerations ..... 9

4 Panels ............................... 11
   4.1 Default built-in panels .......... 11
   4.2 Third-party panels ............... 13
   4.3 API for third-party panels ...... 16

5 Commands ............................ 17
   5.1 debugsqlshell ..................... 17

6 Change log ......................... 19
   6.1 2.0 (2019-06-20) .................. 19
   6.2 1.11 (2018-12-03) ................. 20
   6.3 1.10.1 (2018-09-11) ............... 20
   6.4 1.10 (2018-09-06) ................. 20
   6.5 1.9.1 (2017-11-15) ............... 21
   6.6 1.9 (2017-11-13) ................ 21
   6.7 1.8 (2017-05-05) ................ 21
   6.8 1.7 (2017-03-05) ................ 22
   6.9 1.6 (2016-10-05) ................ 22
   6.10 1.5 (2016-07-21) ................. 22
   6.11 1.4 (2015-10-06) ................. 23
   6.12 1.3 (2015-03-10) ................. 23
   6.13 1.2 (2014-04-25) ................. 23
7 Contributing

7.1 Bug reports and feature requests .................................................. 25
7.2 Code ......................................................................................... 25
7.3 Tests ......................................................................................... 26
7.4 Style ......................................................................................... 26
7.5 Patches ....................................................................................... 26
7.6 Translations ............................................................................... 27
7.7 Mailing list ................................................................................ 27
7.8 Making a release ......................................................................... 27

Index .................................................................................................. 29
CHAPTER 1

Installation

Each of the following steps needs to be configured for the Debug Toolbar to be fully functional.

1.1 Getting the code

The recommended way to install the Debug Toolbar is via pip:

$ pip install django-debug-toolbar

If you aren’t familiar with pip, you may also obtain a copy of the debug_toolbar directory and add it to your Python path.

To test an upcoming release, you can install the in-development version instead with the following command:

$ pip install -e git+https://github.com/jazzband/django-debug-toolbar.git#egg=django-debug-toolbar

1.2 Prerequisites

Make sure that 'django.contrib.staticfiles' is set up properly and add 'debug_toolbar' to your INSTALLED_APPS setting:

INSTALLED_APPS = [
    # ...
    'django.contrib.staticfiles',
    # ...
    'debug_toolbar',
]

STATIC_URL = '/static/'
If you’re upgrading from a previous version, you should review the change log and look for specific upgrade instructions.

### 1.3 Setting up URLconf

Add the Debug Toolbar’s URLs to your project’s URLconf as follows:

```python
from django.conf import settings
from django.conf.urls import include, url
# For django versions before 2.0
from django.urls import include, path
# For django versions from 2.0 and up

if settings.DEBUG:
    import debug_toolbar
    urlpatterns = [
        path('__debug__/', include(debug_toolbar.urls)),
        # For django versions before 2.0:
        # url(r'^__debug__/', include(debug_toolbar.urls)),
    ] + urlpatterns
```

This example uses the __debug__ prefix, but you can use any prefix that doesn’t clash with your application’s URLs. Note the lack of quotes around `debug_toolbar.urls`.

### 1.4 Enabling middleware

The Debug Toolbar is mostly implemented in a middleware. Enable it in your settings module as follows:

```python
MIDDLEWARE = [
    # ...
    'debug_toolbar.middleware.DebugToolbarMiddleware',
    # ...
]
```

**Warning:** The order of `MIDDLEWARE` is important. You should include the Debug Toolbar middleware as early as possible in the list. However, it must come after any other middleware that encodes the response’s content, such as `GZipMiddleware`.

### 1.5 Configuring Internal IPs

The Debug Toolbar is shown only if your IP address is listed in the `INTERNAL_IPS` setting. This means that for local development, you must add `127.0.0.1` to `INTERNAL_IPS`; you’ll need to create this setting if it doesn’t already exist in your settings module:

```python
INTERNAL_IPS = [
    # ...
    '127.0.0.1',
    # ...
]
```
You can change the logic of determining whether or not the Debug Toolbar should be shown with the `SHOW_TOOLBAR_CALLBACK` option. This option allows you to specify a custom function for this purpose.
The debug toolbar provides two settings that you can add in your project’s settings module to customize its behavior.

**Note:** Do you really need a customized configuration?

The debug toolbar ships with a default configuration that is considered sane for the vast majority of Django projects. Don’t copy-paste blindly the default values shown below into you settings module! It’s useless and it’ll prevent you from taking advantage of better defaults that may be introduced in future releases.

### 2.1 DEBUG_TOOLBAR_PANELS

This setting specifies the full Python path to each panel that you want included in the toolbar. It works like Django’s MIDDLEWARE setting. The default value is:

```python
DEBUG_TOOLBAR_PANELS = [
    'debug_toolbar.panels.versions.VersionsPanel',
    'debug_toolbar.panels.timer.TimerPanel',
    'debug_toolbar.panels.settings.SettingsPanel',
    'debug_toolbar.panels.headers.HeadersPanel',
    'debug_toolbar.panels.request.RequestPanel',
    'debug_toolbar.panels.sql.SQLPanel',
    'debug_toolbar.panels.staticfiles.StaticFilesPanel',
    'debug_toolbar.panels.templates.TemplatesPanel',
    'debug_toolbar.panels.cache.CachePanel',
    'debug_toolbar.panels.signals.SignalsPanel',
    'debug_toolbar.panels.logging.LoggingPanel',
    'debug_toolbar.panels.redirects.RedirectsPanel',
    'debug_toolbar.panels.profiling.ProfilingPanel',
]
```

This setting allows you to:
• add built-in panels that aren’t enabled by default,
• add third-party panels,
• remove built-in panels,
• change the order of panels.

2.2 DEBUG_TOOLBAR_CONFIG

This dictionary contains all other configuration options. Some apply to the toolbar itself, others are specific to some panels.

2.2.1 Toolbar options

• DISABLE_PANELS
  Default: 
  This setting is a set of the full Python paths to each panel that you want disabled (but still displayed) by default.
• INSERT_BEFORE
  Default: 
  The toolbar searches for this string in the HTML and inserts itself just before.
• RENDER_PANELS
  Default: None
  If set to False, the debug toolbar will keep the contents of panels in memory on the server and load them on demand. If set to True, it will render panels inside every page. This may slow down page rendering but it’s required on multi-process servers, for example if you deploy the toolbar in production (which isn’t recommended).
  The default value of None tells the toolbar to automatically do the right thing depending on whether the WSGI container runs multiple processes. This setting allows you to force a different behavior if needed.
• RESULTS_CACHE_SIZE
  Default: 10
  The toolbar keeps up to this many results in memory.
• ROOT_TAG_EXTRA_ATTRS
  Default: ''
  This setting is injected in the root template div in order to avoid conflicts with client-side frameworks. For example, when using the debug toolbar with Angular.js, set this to 'ng-non-bindable' or 'class="ng-non-bindable"'.
• SHOW_COLLAPSED
  Default: False
  If changed to True, the toolbar will be collapsed by default.
• SHOW_TOOLBAR_CALLBACK
  Default: 'debug_toolbar.middleware.show_toolbar'
This is the dotted path to a function used for determining whether the toolbar should show or not. The default checks are that `DEBUG` must be set to `True` and the IP of the request must be in `INTERNAL_IPS`. You can provide your own function `callback(request)` which returns `True` or `False`.

For versions < 1.8, the callback should also return `False` for AJAX requests. Since version 1.8, AJAX requests are checked in the middleware, not the callback. This allows reusing the callback to verify access to panel views requested via AJAX.

### 2.2.2 Panel options

- **EXTRA_SIGNALS**
  
  Default: `[]`
  
  Panel: signals
  
  A list of custom signals that might be in your project, defined as the Python path to the signal.

- **ENABLE_STACKTRACES**
  
  Default: `True`
  
  Panels: cache, SQL
  
  If set to `True`, this will show stacktraces for SQL queries and cache calls. Enabling stacktraces can increase the CPU time used when executing queries.

- **HIDE_IN_STACKTRACES**
  
  Default: `('socketserver', 'threading', 'wsgiref', 'debug_toolbar', 'django')`
  
  Panels: cache, SQL
  
  Useful for eliminating server-related entries which can result in enormous DOM structures and toolbar rendering delays.

- **PROFILER_MAX_DEPTH**
  
  Default: `10`
  
  Panel: profiling
  
  This setting affects the depth of function calls in the profiler’s analysis.

- **SHOW_TEMPLATE_CONTEXT**
  
  Default: `True`
  
  Panel: templates
  
  If set to `True` then a template’s context will be included with it in the template debug panel. Turning this off is useful when you have large template contexts, or you have template contexts with lazy datastructures that you don’t want to be evaluated.

- **SKIP_TEMPLATE_PREFIXES**
  
  Default: `('django/forms/widgets/', 'admin/widgets/')`
  
  Panel: templates
  
  Templates starting with those strings are skipped when collecting rendered templates and contexts. Template-based form widgets are skipped by default because the panel HTML can easily grow to hundreds of megabytes with many form fields and many options.
• `SQL_WARNING_THRESHOLD`
  
  Default: 500
  
  Panel: SQL

  The SQL panel highlights queries that took more than this amount of time, in milliseconds, to execute.

Here’s what a slightly customized toolbar configuration might look like:

```python
# This example is unlikely to be appropriate for your project.
DEBUG_TOOLBAR_CONFIG = {
    # Toolbar options
    'RESULTS_CACHE_SIZE': 3,
    'SHOW_COLLAPSED': True,
    # Panel options
    'SQL_WARNING_THRESHOLD': 100,  # milliseconds
}
```
3.1 The toolbar isn’t displayed!

The Debug Toolbar will only display when DEBUG = True in your project’s settings (see Show Toolbar Callback) and your IP address must also match an entry in your project’s INTERNAL_IPS setting (see Configuring Internal IPs). It will also only display if the mimetype of the response is either text/html or application/xhtml+xml and contains a closing </body> tag.

Be aware of middleware ordering and other middleware that may intercept requests and return responses. Putting the debug toolbar middleware after the Flatpage middleware, for example, means the toolbar will not show up on flatpages.

Browsers have become more aggressive with caching static assets, such as JavaScript and CSS files. Check your browser’s development console, and if you see errors, try a hard browser refresh or clearing your cache.

3.2 Performance considerations

The Debug Toolbar is designed to introduce as little overhead as possible in the rendering of pages. However, depending on your project, the overhead may become noticeable. In extreme cases, it can make development impractical. Here’s a breakdown of the performance issues you can run into and their solutions.

3.2.1 Problems

The Debug Toolbar works in two phases. First, it gathers data while Django handles a request and stores this data in memory. Second, when you open a panel in the browser, it fetches the data on the server and displays it.

If you’re seeing excessive CPU or memory consumption while browsing your site, you must optimize the “gathering” phase. If displaying a panel is slow, you must optimize the “rendering” phase.
3.2.2 Culprits

The SQL panel may be the culprit if your view performs many SQL queries. You should attempt to minimize the number of SQL queries, but this isn’t always possible, for instance if you’re using a CMS and have disabled caching for development.

The cache panel is very similar to the SQL panel, except it isn’t always a bad practice to make many cache queries in a view.

The template panel becomes slow if your views or context processors return large contexts and your templates have complex inheritance or inclusion schemes.

3.2.3 Solutions

If the “gathering” phase is too slow, you can disable problematic panels temporarily by deselecting the checkbox at the top right of each panel. That change will apply to the next request. If you don’t use some panels at all, you can remove them permanently by customizing the `DEBUG_TOOLBAR_PANELS` setting.

By default, data gathered during the last 10 requests is kept in memory. This allows you to use the toolbar on a page even if you have browsed to a few other pages since you first loaded that page. You can reduce memory consumption by setting the `RESULTS_CACHE_SIZE` configuration option to a lower value. At worst, the toolbar will tell you that the data you’re looking for isn’t available anymore.

If the “rendering” phase is too slow, refrain from clicking on problematic panels :) Or reduce the amount of data gathered and rendered by these panels by disabling some configuration options that are enabled by default:

- `ENABLE_STACKTRACES` for the SQL and cache panels,
- `SHOW_TEMPLATE_CONTEXT` for the template panel.

Also, check `SKIP_TEMPLATE_PREFIXES` when you’re using template-based form widgets.
The Django Debug Toolbar ships with a series of built-in panels. In addition, several third-party panels are available.

## 4.1 Default built-in panels

The following panels are enabled by default.

### 4.1.1 Version

Path: `debug_toolbar.panels.versions.VersionsPanel`

Shows versions of Python, Django, and installed apps if possible.

### 4.1.2 Timer

Path: `debug_toolbar.panels.timer.TimerPanel`

Request timer.

### 4.1.3 Settings

Path: `debug_toolbar.panels.settings.SettingsPanel`

A list of settings in settings.py.

### 4.1.4 Headers

Path: `debug_toolbar.panels.headers.HeadersPanel`
This panels shows the HTTP request and response headers, as well as a selection of values from the WSGI environment.

Note that headers set by middleware placed before the debug toolbar middleware in MIDDLEWARE won’t be visible in the panel. The WSGI server itself may also add response headers such as Date and Server.

### 4.1.5 Request

Path: `debug_toolbar.panels.request.RequestPanel`

GET/POST/cookie/session variable display.

### 4.1.6 SQL

Path: `debug_toolbar.panels.sql.SQLPanel`

SQL queries including time to execute and links to EXPLAIN each query.

### 4.1.7 Template

Path: `debug_toolbar.panels.templates.TemplatesPanel`

Templates and context used, and their template paths.

### 4.1.8 Static files

Path: `debug_toolbar.panels.staticfiles.StaticFilesPanel`

Used static files and their locations (via the staticfiles finders).

### 4.1.9 Cache

Path: `debug_toolbar.panels.cache.CachePanel`

Cache queries. Is incompatible with Django’s per-site caching.

### 4.1.10 Signal

Path: `debug_toolbar.panels.signals.SignalsPanel`

List of signals, their args and receivers.

### 4.1.11 Logging

Path: `debug_toolbar.panels.logging.LoggingPanel`

Logging output via Python’s built-in logging module.
4.1.12 Redirects

Path: debug_toolbar.panels.redirects.RedirectsPanel

When this panel is enabled, the debug toolbar will show an intermediate page upon redirect so you can view any debug information prior to redirecting. This page will provide a link to the redirect destination you can follow when ready. Since this behavior is annoying when you aren’t debugging a redirect, this panel is included but inactive by default. You can activate it by default with the DISABLE_PANELS configuration option.

4.1.13 Profiling

Path: debug_toolbar.panels.profiling.ProfilingPanel

Profiling information for the processing of the request.

This panel is included but inactive by default. You can activate it by default with the DISABLE_PANELS configuration option.

4.2 Third-party panels

Note: Third-party panels aren’t officially supported!

The authors of the Django Debug Toolbar maintain a list of third-party panels, but they can’t vouch for the quality of each of them. Please report bugs to their authors.

If you’d like to add a panel to this list, please submit a pull request!

4.2.1 Flamegraph

URL: https://github.com/23andMe/djdt-flamegraph
Path: djdt_flamegraph.FlamegraphPanel
Generates a flame graph from your current request.

4.2.2 Haystack

URL: https://github.com/streeter/django-haystack-panel
Path: haystack_panel.panel.HaystackDebugPanel
See queries made by your Haystack backends.

4.2.3 HTML Tidy/Validator

URL: https://github.com/joymax/django-dtpanel-htmltidy
Path: debug_toolbar_htmltidy.panels.HTMLTidyDebugPanel
HTML Tidy or HTML Validator is a custom panel that validates your HTML and displays warnings and errors.
4.2.4 Inspector

URL: https://github.com/santiagobasulto/debug-inspector-panel
Path: inspector_panel.panels.inspector.InspectorPanel
Retrieves and displays information you specify using the `debug` statement. Inspector panel also logs to the console by default, but may be instructed not to.

4.2.5 Line Profiler

URL: https://github.com/dmclain/django-debug-toolbar-line-profiler
Path: debug_toolbar_line_profiler.panel.ProfilingPanel
This package provides a profiling panel that incorporates output from line_profiler.

4.2.6 Mail

URL: https://github.com/scuml/django-mail-panel
Path: mail_panel.panels.MailToolbarPanel
This panel captures and displays emails sent from your application.

4.2.7 Memcache

URL: https://github.com/ross/memcache-debug-panel
Path: memcache_toolbar.panels.memcache.MemcachePanel or memcache_toolbar.panels.pylibmc.PylibmcPanel
This panel tracks memcached usage. It currently supports both the pylibmc and memcache libraries.

4.2.8 MongoDB

URL: https://github.com/hmarr/django-debug-toolbar-mongo
Path: debug_toolbar_mongo.panel.MongoDebugPanel
Adds MongoDB debugging information.

4.2.9 Neo4j

URL: https://github.com/robinedwards/django-debug-toolbar-neo4j-panel
Path: neo4j_panel.Neo4jPanel
Trace neo4j rest API calls in your django application, this also works for neo4django and neo4jrestclient, support for py2neo is on its way.
4.2.10 Pympler

URL: https://pythonhosted.org/Pympler/django.html
Path: pympler.panels.MemoryPanel
Shows process memory information (virtual size, resident set size) and model instances for the current request.

4.2.11 Request History

URL: https://github.com/djsutho/django-debug-toolbar-request-history
Path: ddt_request_history.panels.request_history.RequestHistoryPanel
Switch between requests to view their stats. Also adds support for viewing stats for ajax requests.

4.2.12 Sites

URL: https://github.com/elvard/django-sites-toolbar
Path: sites_toolbar.panels.SitesDebugPanel
Browse Sites registered in django.contrib.sites and switch between them. Useful to debug project when you use django-dynamicsites which sets SITE_ID dynamically.

4.2.13 Template Profiler

URL: https://github.com/node13h/django-debug-toolbar-template-profiler
Path: template_profiler_panel.panels.template.TemplateProfilerPanel
Shows template render call duration and distribution on the timeline. Lightweight. Compatible with WSGI servers which reuse threads for multiple requests (Werkzeug).

4.2.14 Template Timings

URL: https://github.com/orf/django-debug-toolbar-template-timings
Path: template_timings_panel.panels.TemplateTimings.TemplateTimings
Displays template rendering times for your Django application.

4.2.15 User

URL: https://github.com/playfire/django-debug-toolbar-user-panel
Path: debug_toolbar_user_panel.panels.UserPanel
Easily switch between logged in users, see properties of current user.
4.2.16 VCS Info

URL: https://github.com/giginet/django-debug-toolbar-vcs-info
Path: vcs_info_panel.panels.GitInfoPanel
Displays VCS status (revision, branch, latest commit log and more) of your Django application.

4.2.17 uWSGI Stats

URL: https://github.com/unbit/django-uwsgi
Path: django_uwsgi.panels.UwsgiPanel
Displays uWSGI stats (workers, applications, spooler jobs and more).

4.3 API for third-party panels

Third-party panels must subclass Panel, according to the public API described below. Unless noted otherwise, all methods are optional.
Panels can ship their own templates, static files and views. All views should be decorated with debug_toolbar.decorators.require_show_toolbar to prevent unauthorized access. There is no public CSS API at this time.

4.3.1 JavaScript API

Panel templates should include any JavaScript files they need. There are a few common methods available.

djdt.close()
Closes the topmost level (window/panel/toolbar)
djdt.cookie.get()
This is a helper function to fetch values stored in the cookies.
Arguments
  • key (string) – The key for the value to be fetched.
djdt.cookie.set()
This is a helper function to set a value stored in the cookies.
Arguments
  • key (string) – The key to be used.
  • value (string) – The value to be set.
  • options (Object) – The options for the value to be set. It should contain the properties expires and path.
djdt.hide_toolbar()
Closes any panels and hides the toolbar.
djdt.show_toolbar()
Shows the toolbar.
The Debug Toolbar currently provides one Django management command.

## 5.1 debugsqlshell

This command starts an interactive Python shell, like Django’s built-in `shell` management command. In addition, each ORM call that results in a database query will be beautifully output in the shell.

Here’s an example:

```
>>> from page.models import Page
>>> ### Lookup and use resulting in an extra query...
>>> p = Page.objects.get(pk=1)
SELECT "page_page"."id",
    "page_page"."number",
    "page_page"."template_id",
    "page_page"."description"
FROM "page_page"
WHERE "page_page"."id" = 1

>>> print(p.template.name)
SELECT "page_template"."id",
    "page_template"."name",
    "page_template"."description"
FROM "page_template"
WHERE "page_template"."id" = 1

Home
>>> ### Using select_related to avoid 2nd database call...
>>> p = Page.objects.select_related('template').get(pk=1)
SELECT "page_page"."id",
    "page_page"."number",
    "page_page"."template_id",
(continues on next page)```
"page_page"."description",
"page_template"."id",
"page_template"."name",
"page_template"."description"
FROM "page_page"
INNER JOIN "page_template" ON ("page_page"."template_id" = "page_template"."id")
WHERE "page_page"."id" = 1

>>> print(p.template.name)
Home
6.1 2.0 (2019-06-20)

- Updated StaticFilesPanel to be compatible with Django 3.0.
- The ProfilingPanel is now enabled but inactive by default.
- Fixed toggling of table rows in the profiling panel UI.
- The ProfilingPanel no longer skips remaining panels or middlewares.
- Improved the installation documentation.
- Fixed a possible crash in the template panel.
- Added support for psycopg2 Composed objects.
- Changed the Jinja2 tests to use Django’s own Jinja2 template backend.
- Added instrumentation to queries using server side cursors.
- Too many small improvements and cleanups to list them all.

6.1.1 Backwards incompatible changes

- Removed support for Python 2.
- Removed support for Django’s deprecated MIDDLEWARE_CLASSES setting.
- Restructured Panel to execute more like the new-style Django MIDDLEWARE. The Panel.__init__() method is now passed get_response as the first positional argument. The Panel.process_request() method must now always return a response. Usually this is the response returned by get_response() but the panel may also return a different response as is the case in the RedirectsPanel. Third party panels must adjust to this new architecture. Panel.process_response() and Panel.process_view() have been removed as a result of this change.
The deprecated API, `debug_toolbar.panels.DebugPanel`, has been removed. Third party panels should use `debug_toolbar.panels.Panel` instead.

The following deprecated settings have been removed:
- `HIDDEN_STACKTRACE_MODULES`
- `HIDE_DJANGO_SQL`
- `INTERCEPT_REDIRECTS`
- `RESULTS_STORE_SIZE`
- `ROOT_TAG_ATTRS`
- `TAG`

### 6.2 1.11 (2018-12-03)

- Use `defer` on all `<script>` tags to avoid blocking HTML parsing, removed inline JavaScript.
- Stop inlining images in CSS to avoid Content Security Policy errors altogether.
- Reformatted the code using `black`.
- Added the Django mail panel to the list of third-party panels.
- Convert system check errors to warnings to accommodate exotic configurations.
- Fixed a crash when explaining raw querysets.
- Fixed an obscure unicode error with binary data fields.
- Added MariaDB and Python 3.7 builds to the CI.

### 6.3 1.10.1 (2018-09-11)

- Fixed a problem where the duplicate query detection breaks for non-hashable query parameters.
- Added support for structured types when recording SQL.
- Made Travis CI also run one test no PostgreSQL.
- Added fallbacks for inline images in CSS.
- Improved cross-browser compatibility around `URLSearchParams` usage.
- Fixed a few typos and redundancies in the documentation, removed mentions of django-debug-toolbar’s jQuery which aren’t accurate anymore.

### 6.4 1.10 (2018-09-06)

- Removed support for Django < 1.11.
- Added support and testing for Django 2.1 and Python 3.7. No actual code changes were required.
- Removed the jQuery dependency. This means that django-debug-toolbar now requires modern browsers with support for `fetch`, `classList` etc.
- Added support for the server timing header.
• Added a differentiation between similar and duplicate queries. Similar queries are what duplicate queries used to be (same SQL, different parameters).
• Stopped hiding frames from Django’s contrib apps in stacktraces by default.
• Lots of small cleanups and bugfixes.

6.5 1.9.1 (2017-11-15)

• Fix erroneous `ContentNotRenderedError` raised by the redirects panel.

6.6 1.9 (2017-11-13)

This version is compatible with Django 2.0 and requires Django 1.8 or later.

6.6.1 Bugfixes

• The profiling panel now escapes reported data resulting in valid HTML.
• Many minor cleanups and bugfixes.

6.7 1.8 (2017-05-05)

This version is compatible with Django 1.11 and requires Django 1.8 or later.

6.7.1 Backwards incompatible changes

• `debug_toolbar.middleware.show_toolbar` (the default value of setting `SHOW_TOOLBAR_CALLBACK`) no longer returns False for AJAX requests. This is to allow reusing the `SHOW_TOOLBAR_CALLBACK` function to verify access to panel views requested via AJAX. Projects defining a custom `SHOW_TOOLBAR_CALLBACK` should remove checks for AJAX requests in order to continue to allow access to these panels.

6.7.2 Features

• New decorator `debug_toolbar.decorators.require_show_toolbar` prevents unauthorized access to decorated views by checking `SHOW_TOOLBAR_CALLBACK` every request. Unauthorized access results in a 404.
• The `SKIP_TEMPLATE_PREFIXES` setting allows skipping templates in the templates panel. Template-based form widgets’ templates are skipped by default to avoid panel sizes going into hundreds of megabytes of HTML.

6.7.3 Bugfixes

• All views are now decorated with `debug_toolbar.decorators.require_show_toolbar` preventing unauthorized access.
• The templates panel now reuses contexts’ pretty printed version which makes the debug toolbar usable again with Django 1.11’s template-based forms rendering.
• Long SQL statements are now forcibly wrapped to fit on the screen.

6.8 1.7 (2017-03-05)

6.8.1 Bugfixes
• Recursive template extension is now understood.
• Deprecation warnings were fixed.
• The SQL panel uses HMAC instead of simple hashes to verify that SQL statements have not been changed. Also, the handling of bytes and text for hashing has been hardened. Also, a bug with Python’s division handling has been fixed for improved Python 3 support.
• An error with django-jinja has been fixed.
• A few CSS classes have been prefixed with djdt- to avoid conflicting class names.

6.9 1.6 (2016-10-05)

The debug toolbar was adopted by jazzband.

6.9.1 Removed features
• Support for automatic setup has been removed as it was frequently problematic. Installation now requires explicit setup. The DEBUG_TOOLBAR_PATCH_SETTINGS setting has also been removed as it is now unused. See the installation documentation for details.

6.9.2 Bugfixes
• The DebugToolbarMiddleware now also supports Django 1.10’s MIDDLEWARE setting.

6.10 1.5 (2016-07-21)

This version is compatible with Django 1.10 and requires Django 1.8 or later.
Support for Python 3.2 is dropped.

6.10.1 Bugfixes
• Restore compatibility with sqlparse 0.2.0.
• Add compatibility with Bootstrap 4, Pure CSS, MDL, etc.
• Improve compatibility with RequireJS / AMD.
• Improve the UI slightly.
• Fix invalid (X)HTML.

6.11 1.4 (2015-10-06)

This version is compatible with Django 1.9 and requires Django 1.7 or later.

6.11.1 New features

• New panel method `debug_toolbar.panels.Panel.generate_stats()` allows panels to only record stats when the toolbar is going to be inserted into the response.

6.11.2 Bugfixes

• Response time for requests of projects with numerous media files has been improved.

6.12 1.3 (2015-03-10)

This is the first version compatible with Django 1.8.

6.12.1 New features

• A new panel is available: Template Profiler.
• The `SHOW_TOOLBAR_CALLBACK` accepts a callable.
• The toolbar now provides a JavaScript API.

6.12.2 Bugfixes

• The toolbar handle cannot leave the visible area anymore when the toolbar is collapsed.
• The root level logger is preserved.
• The `RESULTS_CACHE_SIZE` setting is taken into account.
• CSS classes are prefixed with `djdt-` to prevent name conflicts.
• The private copy of jQuery no longer registers as an AMD module on sites that load RequireJS.

6.13 1.2 (2014-04-25)

6.13.1 New features

• The `JQUERY_URL` setting defines where the toolbar loads jQuery from.
6.13.2 Bugfixes

- The toolbar now always loads a private copy of jQuery in order to avoid using an incompatible version. It no longer attempts to integrate with AMD.

  This private copy is available in `djdt.jQuery`. Third-party panels are encouraged to use it because it should be as stable as the toolbar itself.

6.14 1.1 (2014-04-12)

This is the first version compatible with Django 1.7.

6.14.1 New features

- The SQL panel colors queries depending on the stack level.
- The Profiler panel allows configuring the maximum depth.

6.14.2 Bugfixes

- Support languages where lowercase and uppercase strings may have different lengths.
- Allow using cursor as context managers.
- Make the SQL explain more helpful on SQLite.
- Various JavaScript improvements.

6.14.3 Deprecated features

- The `INTERCEPT_REDIRECTS` setting is superseded by the more generic `DISABLE_PANELS`.

6.15 1.0 (2013-12-21)

This is the first stable version of the Debug Toolbar!

It includes many new features and performance improvements as well as a few backwards-incompatible changes to make the toolbar easier to deploy, use, extend and maintain in the future.

You’re strongly encouraged to review the installation and configuration docs and redo the setup in your projects. Third-party panels will need to be updated to work with this version.
This is a Jazzband project. By contributing you agree to abide by the Contributor Code of Conduct and follow the guidelines.

### 7.1 Bug reports and feature requests

You can report bugs and request features in the bug tracker.
Please search the existing database for duplicates before filing an issue.

### 7.2 Code

The code is available on GitHub. Unfortunately, the repository contains old and flawed objects, so if you have set `fetch.fsckObjects` you’ll have to deactivate it for this repository:

```bash
$ git clone --config fetch.fsckobjects=false https://github.com/jazzband/django-debug-toolbar.git
```

Once you’ve obtained a checkout, you should create a virtualenv and install the libraries required for working on the Debug Toolbar:

```bash
$ pip install -r requirements_dev.txt
```

You can run now run the example application:

```bash
$ DJANGO_SETTINGS_MODULE=example.settings python -m django migrate
$ DJANGO_SETTINGS_MODULE=example.settings python -m django runserver
```

For convenience, there’s an alias for the second command:
## 7.3 Tests

Once you’ve set up a development environment as explained above, you can run the test suite for the versions of Django and Python installed in that environment:

```
$ make test
```

You can enable coverage measurement during tests:

```
$ make coverage
```

You can also run the test suite on all supported versions of Django and Python:

```
$ tox
```

This is strongly recommended before committing changes to Python code.

The test suite includes frontend tests written with Selenium. Since they’re annoyingly slow, they’re disabled by default. You can run them as follows:

```
$ make test_selenium
```

or by setting the `DJANGO_SELENIUM_TESTS` environment variable:

```
$ DJANGO_SELENIUM_TESTS=true make test
$ DJANGO_SELENIUM_TESTS=true make coverage
$ DJANGO_SELENIUM_TESTS=true tox
```

At this time, there isn’t an easy way to test against databases other than SQLite.

## 7.4 Style

The Django Debug Toolbar uses black to format code and additionally uses flake8 and isort. You can reformat the code using:

```
$ make style
```

## 7.5 Patches

Please submit pull requests!

The Debug Toolbar includes a limited but growing test suite. If you fix a bug or add a feature code, please consider adding proper coverage in the test suite, especially if it has a chance for a regression.
7.6 Translations

Translation efforts are coordinated on Transifex.
Help translate the Debug Toolbar in your language!

7.7 Mailing list

This project doesn’t have a mailing list at this time. If you wish to discuss a topic, please open an issue on GitHub.

7.8 Making a release

Prior to a release, the English .po file must be updated with make translatable_strings and pushed to Transifex. Once translators have done their job, .po files must be downloaded with make update_translations.
The release itself requires the following steps:

1. Update supported Python and Django versions:
   - setup.py python_requires list
   - setup.py trove classifiers
   - README.rst
   Commit.

2. Bump version numbers in docs/changes.rst, docs/conf.py, README.rst and setup.py. Add the release date to docs/changes.rst. Commit.

3. Tag the new version.

4. python setup.py sdist bdist_wheel upload.

5. Push the commit and the tag.

6. Change the default version of the docs to point to the latest release: https://readthedocs.org/dashboard/django-debug-toolbar/versions/
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djdt.close() *(djdt method)*, 16
djdt.cookie.get() *(djdt.cookie method)*, 16
djdt.cookie.set() *(djdt.cookie method)*, 16
djdt.hide_toolbar() *(djdt method)*, 16
djdt.show_toolbar() *(djdt method)*, 16