

# ReleaseNote54

14 December 2015, Apache Lucene™ 5.4.0 available

The Lucene PMC is pleased to announce the release of Apache Lucene 5.4.0

Apache Lucene is a high-performance, full-featured text search engine library written entirely in Java. It is a technology suitable for nearly any application that requires full-text search, especially cross-platform.

This release contains numerous bug fixes, optimizations, and improvements, some of which are highlighted below. The release is available for immediate download at:

<http://lucene.apache.org/core/mirrors-core-latest-redir.html>

Please read CHANGES.txt for a full list of new features and changes:

[https://lucene.apache.org/core/5\\_4\\_0/changes/Changes.html](https://lucene.apache.org/core/5_4_0/changes/Changes.html)

Lucene 5.4.0 Release Highlights:

## API Changes

- \* `Query.getBoost` and `Query.setBoost` are deprecated in favour of the new `BoostQuery`
- \* The `Filter` class is deprecated in favour of `FILTER` clauses in a `BooleanQuery`
- \* `DefaultSimilarity` has been renamed to `ClassicSimilarity` to prepare for the move to BM25 in Lucene 6

## New features

- \* New Serbian token filter
- \* New `DecimalDigitFilter`, to fold unicode digits to latin digits
- \* New `UnicodeWhitespaceTokenizer`, that uses Unicode's whitespace definition and splits on NBSP
- \* New `GeoPointDistanceRangeQuery` to search for geo-points within a ring
- \* Query caching is now enabled by default in `IndexSearcher`, use `IndexSearcher.setQueryCache(null)` to disable

## Optimizations

- \* `MatchAllDocsQuery` got faster
- \* Doc values now use less memory for multi-valued fields and less disk in case of sparse fields
- \* Two-phase iterators got a match cost API so that the costly bits can be checked last

## Bug fixes

- \* `PatternTokenizer` no longer hangs onto heap sized to the maximum input string it's ever seen.

Further details of changes are available in the change log available at:

[http://lucene.apache.org/core/5\\_4\\_0/changes/Changes.html](http://lucene.apache.org/core/5_4_0/changes/Changes.html)

Please report any feedback to the mailing lists

(<http://lucene.apache.org/core/discussion.html>)

Note: The Apache Software Foundation uses an extensive mirroring network for distributing releases. It is possible that the mirror you are using may not have replicated the release yet. If that is the case, please try another mirror. This also applies to Maven access.