# ReleaseNote61

17 June 2016, Apache Lucene™ 6.1.0 available The Lucene PMC is pleased to announce the release of Apache Lucene 6.1.0.

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/6_1_0/changes/Changes.html

Lucene 6.1.0 Release Highlights:

New features

- Numerous improvements to LatLonPoint, for indexing a latitude/longitude point and searching by polygon, distance or box, or finding nearest neighbors
- Geo3D now has simple APIs for creating common shape queries, matching LatLonPoint

Optimizations

- Faster indexing and searching of points.
- Faster geo-spatial indexing and searching for LatLonPoint, Geo3D and GeoPoint (see http://home.apache.org/~mikemccand/geobench.html )
- HardlinkCopyDirectoryWrapper optimizes file copies using hard links
- In case of contention, the query cache now prefers returning an uncached Scorer rather than waiting on a lock.

Bug fixes

- BooleanQuery could sometimes assign too low scores to ranges of documents that matched a single clause.
- Doc values updates could sometimes be applied in the wrong order.

Further details of changes are available in the change log available at: http://lucene.apache.org/core/6_1_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.