

## Quick Links

- [About](#)
- [Policies](#)
- [Feature Matrix](#)
- [Donate](#)
- [History](#)
- [Sponsors](#)
  - [Contributing](#)
  - [Financial](#)
  - [Servers](#)
- [Latest News](#)
- [Upcoming Events](#)
  - [Past events](#)
- [Press](#)
- [Licence](#)

## Feature Matrix

This table outlines which features were added in which version. To get more information about a feature, click the link or hover the mouse pointer over the text.

## Groups

- [Backend](#)
- [Data Types, Functions, & Operators](#)
- [Indexing & Constraints](#)
- [SQL](#)
- [Data Definition Language \(DDL\)](#)
- [Performance](#)
- [JSON](#)
- [Partitioning & Inheritance](#)
- [Views & Materialized Views](#)
- [Replication](#)
- [Backup, Restore, & Data Integrity](#)
- [Data Import & Export](#)
- [Configuration Management](#)
- [Security](#)
- [Transactions and Visibility](#)
- [VACUUM and Maintenance](#)
- [Foreign Data Wrappers](#)
- [Custom Functions, Stored Procedures, & Triggers](#)
- [Procedural Languages](#)
- [Extensions](#)
- [Internationalisation](#)

- [Client Applications](#)
- [Additional Modules \(contrib\)](#)
- [Network](#)
- [Platforms](#)

Filter by version

17 16 15 14 13 12 11 10 9.6 9.5 9.4 9.3 9.2 9.1 9.0 8.4 8.3 8.2 8.1

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Hide unchanged features

## Backend

	17	16	15	14	13	12
<a href="#">64-bit large objects</a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">Advisory locks</a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">Custom background workers</a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">Disk based FSM</a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">Dynamic Background Workers</a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">EXPLAIN (BUFFERS) support</a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">EXPLAIN (WAL) support</a>	Yes	Yes	Yes	Yes	Yes	No
<a href="#">"jsonlog" logging format</a>	Yes	Yes	Yes	No	No	No
<a href="#">Loadable plugin infrastructure for monitoring the planner</a>	Yes	Yes	Yes	Yes	Yes	Yes

	17	16	15	14	13	12
<a href="#"><u>Payload support for LISTEN/NOTIFY</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>pg_stat_checkpoint system view</u></a>	Yes	No	No	No	No	No
<a href="#"><u>pg_stat_io - I/O metrics view</u></a>	Yes	Yes	No	No	No	No
<a href="#"><u>pg_wait_events system view</u></a>	Yes	No	No	No	No	No
<a href="#"><u>Server statistics in shared memory</u></a>	Yes	Yes	Yes	No	No	No
<a href="#"><u>SQL-standard information schema</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>Support for anonymous shared memory</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>XML, JSON and YAML output for EXPLAIN</u></a>	Yes	Yes	Yes	Yes	Yes	Yes

## Data Types, Functions, & Operators

	17	16	15	14	13	12
<a href="#"><u>Arrays of compound types</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>Array support</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>ENUM data type</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>GUID/UUID data type</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>macaddr8 data type</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>Multiranges</u></a>	Yes	Yes	Yes	Yes	No	No
<a href="#"><u>NULLs in Array</u></a>	Yes	Yes	Yes	Yes	Yes	Yes

	17	16	15	14	13	12
<a href="#">Phrase search</a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">Range types</a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">smallserial type</a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">Type modifier support</a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">XML data type</a>	Yes	Yes	Yes	Yes	Yes	Yes

## Indexing & Constraints

	17	16	15	14	13	12
<a href="#">Block-range (BRIN) indexes</a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">B-tree bottom-up index deletion</a>	Yes	Yes	Yes	Yes	No	No
<a href="#">B-tree deduplication</a>	Yes	Yes	Yes	Yes	Yes	No
<a href="#">Concurrent GiST indexes</a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">Covering Indexes for B-trees (INCLUDE)</a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">Covering indexes for GiST (INCLUDE)</a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">Deferrable unique constraints</a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">Exclusion constraints</a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">GIN (Generalized Inverted Index) Indexes</a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">GIN indexes partial match</a>	Yes	Yes	Yes	Yes	Yes	Yes

	17	16	15	14	13	12
<a href="#"><u>GIN Index performance and size improvements</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>GiST (Generalized Search Tree) Indexes</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>Indexes on expressions</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>Index-only scans</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>Index-only scans on GiST</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>Index support for IS NULL</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>In-memory Bitmap Indexes</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>K-nearest neighbor GiST support</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>K-nearest neighbor SP-GiST Support</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>Non-blocking CREATE INDEX</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>Parallel B-tree index scans</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<b>Parallelized CREATE INDEX for BRIN indexes</b>	Yes	No	No	No	No	No
<b>Parallelized CREATE INDEX for B-tree indexes</b>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>Space-Partitioned GiST (SP-GiST) Indexes</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>SP-GiST indexes for range types</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>UNIQUE NULLS NOT DISTINCT</u></a>	Yes	Yes	Yes	No	No	No
<a href="#"><u>WAL support for hash indexes</u></a>	Yes	Yes	Yes	Yes	Yes	Yes

# SQL

	17	16	15	14	13	12
<u>ANY_VALUE aggregate</u>	Yes	Yes	No	No	No	No
<u>FETCH FIRST .. WITH TIES</u>	Yes	Yes	Yes	Yes	Yes	No
<u>GROUPING SETS, CUBE and ROLLUP support</u>	Yes	Yes	Yes	Yes	Yes	Yes
<u>INSERT/UPDATE/DELETE RETURNING</u>	Yes	Yes	Yes	Yes	Yes	Yes
<u>LATERAL clause</u>	Yes	Yes	Yes	Yes	Yes	Yes
<u>MERGE</u>	Yes	Yes	Yes	No	No	No
<u>Multirow VALUES</u>	Yes	Yes	Yes	Yes	Yes	Yes
<u>Non-decimal integer literals</u>	Yes	Yes	No	No	No	No
<u>ORDER BY NULLS FIRST/LAST</u>	Yes	Yes	Yes	Yes	Yes	Yes
<u>range_agg range type aggregation function</u>	Yes	Yes	Yes	Yes	No	No
<u>Recursive Queries</u>	Yes	Yes	Yes	Yes	Yes	Yes
<u>regexp_count, regexp_instr, regexp_like</u>	Yes	Yes	Yes	No	No	No
<u>Row-wise comparison</u>	Yes	Yes	Yes	Yes	Yes	Yes
<u>SELECT FOR NO KEY UPDATE/SELECT FOR KEY SHARE lock modes</u>	Yes	Yes	Yes	Yes	Yes	Yes

	17	16	15	14	13	12
<b>SQL standard interval handling</b>	Yes	Yes	Yes	Yes	Yes	Yes
<b><u>SYSTEM USER</u></b>	Yes	Yes	No	No	No	No
<b><u>TABLE statement</u></b>	Yes	Yes	Yes	Yes	Yes	Yes
<b><u>Underscores ( ) for thousands separators</u></b>	Yes	Yes	No	No	No	No
<b><u>unnest/array_agg</u></b>	Yes	Yes	Yes	Yes	Yes	Yes
<b><u>Upsert (INSERT ... ON CONFLICT DO ...)</u></b>	Yes	Yes	Yes	Yes	Yes	Yes
<b><u>Window functions</u></b>	Yes	Yes	Yes	Yes	Yes	Yes
<b><u>WITHIN GROUP clause</u></b>	Yes	Yes	Yes	Yes	Yes	Yes
<b><u>WITH ORDINALITY clause</u></b>	Yes	Yes	Yes	Yes	Yes	Yes
<b><u>WITH Queries (Common Table Expressions)</u></b>	Yes	Yes	Yes	Yes	Yes	Yes
<b><u>Writable WITH Queries (Common Table Expressions)</u></b>	Yes	Yes	Yes	Yes	Yes	Yes

## Data Definition Language (DDL)

	17	16	15	14	13	12
<b><u>ALTER object IF EXISTS</u></b>	Yes	Yes	Yes	Yes	Yes	Yes
<b><u>ALTER TABLE ... ADD UNIQUE/PRIMARY KEY USING INDEX</u></b>	Yes	Yes	Yes	Yes	Yes	Yes



	17	16	15	14	13	12
<a href="#"><u>ALTER TABLE ... SET ACCESS METHOD</u></a>	Yes	Yes	Yes	No	No	No
<a href="#"><u>ALTER TABLE ... SET LOGGED / UNLOGGED</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>Changing column types (ALTER TABLE .. ALTER COLUMN TYPE)</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>CREATE ACCESS METHOD</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<b>CREATE TABLE ... (LIKE) with foreign tables, views and composite types</b>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>DROP object IF EXISTS</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>ON COMMIT clause for CREATE TEMPORARY TABLE</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>REINDEX CONCURRENTLY</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>Stored Generated Columns</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>Typed tables</u></a>	Yes	Yes	Yes	Yes	Yes	Yes

## Performance

	17	16	15	14	13	12
<a href="#"><u>Abbreviated Keys</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>Asynchronous Commit</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>Automatic plan invalidation</u></a>	Yes	Yes	Yes	Yes	Yes	Yes

	17	16	15	14	13	12
<u>Background Checkpointer</u>	Yes	Yes	Yes	Yes	Yes	Yes
<u>Background Writer</u>	Yes	Yes	Yes	Yes	Yes	Yes
<u>Base backup throttling</u>	Yes	Yes	Yes	Yes	Yes	Yes
<u>CREATE STATISTICS - most-common values (MCV) statistics</u>	Yes	Yes	Yes	Yes	Yes	Yes
<u>CREATE STATISTICS - multicolumn</u>	Yes	Yes	Yes	Yes	Yes	Yes
<u>CREATE STATISTICS - "OR" and "IN/ANY" statistics</u>	Yes	Yes	Yes	Yes	Yes	No
<u>Cross datatype hashing support</u>	Yes	Yes	Yes	Yes	Yes	Yes
<u>Distributed checkpointing</u>	Yes	Yes	Yes	Yes	Yes	Yes
<u>Foreign keys marked as NOT VALID</u>	Yes	Yes	Yes	Yes	Yes	Yes
<u>Frozen page map</u>	Yes	Yes	Yes	Yes	Yes	Yes
<u>Full Text Search</u>	Yes	Yes	Yes	Yes	Yes	Yes
<u>Hash aggregation can use disk</u>	Yes	Yes	Yes	Yes	Yes	No
<u>Hashing support for DISTINCT/UNION/INTERSECT/EXCEPT</u>	Yes	Yes	Yes	Yes	Yes	Yes
<u>Hashing support for FULL OUTER JOIN, LEFT OUTER JOIN and RIGHT OUTER JOIN</u>	Yes	Yes	Yes	Yes	Yes	Yes
<u>Heap Only Tuples (HOT)</u>	Yes	Yes	Yes	Yes	Yes	Yes
<u>Improved performance for sorts exceeding working memory</u>	Yes	Yes	Yes	No	No	No

	17	16	15	14	13	12
<a href="#"><u>Improved window function performance</u></a>	Yes	Yes	Yes	No	No	No
<a href="#"><u>Incremental sort</u></a>	Yes	Yes	Yes	Yes	Yes	No
<a href="#"><u>Incremental sort for SELECT DISTINCT</u></a>	Yes	Yes	No	No	No	No
<a href="#"><u>Incremental sort for window functions</u></a>	Yes	Yes	Yes	Yes	No	No
<a href="#"><u>Inlined WITH Queries (Common Table Expressions)</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>Inlining of SQL-functions</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>Just-in-Time (JIT) compilation for expression evaluation and tuple deforming</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>Load balancing for libpq / psql</u></a>	Yes	Yes	No	No	No	No
<a href="#"><u>LZ4 compression for TOAST tables</u></a>	Yes	Yes	Yes	Yes	No	No
<a href="#"><u>Multi-core scalability for read-only workloads</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>Multiple temporary tablespaces</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>Outer Join reordering</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>Parallel bitmap heap scans</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>Parallel FULL and RIGHT joins</u></a>	Yes	Yes	No	No	No	No
<a href="#"><u>Parallel full table scans (sequential scans)</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>Parallel hash joins</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>Parallel JOIN, aggregate</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>Parallel merge joins</u></a>	Yes	Yes	Yes	Yes	Yes	Yes

	17	16	15	14	13	12
<a href="#"><u>Parallel query</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>Parallel "SELECT DISTINCT"</u></a>	Yes	Yes	Yes	No	No	No
<a href="#"><u>Partial sort capability (top-n sorting)</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>Query pipelining</u></a>	Yes	Yes	Yes	Yes	No	No
<a href="#"><u>Reduced lock levels for ALTER TABLE commands</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<b>SELECT ... FOR UPDATE/SHARE NOWAIT</b>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>Set costs specific to TABLESPACES</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>Shared row level locking</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>SIMD support for ARM</u></a>	Yes	Yes	No	No	No	No
<a href="#"><u>SIMD support for x86</u></a>	Yes	Yes	No	No	No	No
<a href="#"><u>SKIP LOCKED clause</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>Synchronized sequential scanning</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>TABLESAMPLE clause</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>Tablespaces</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>Unlogged tables</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>WAL Buffer auto-tuning</u></a>	Yes	Yes	Yes	Yes	Yes	Yes

## JSON

	17	16	15	14	13	12
<a href="#"><u>Improved set of JSON functions and operators</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>JSONB data type</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>JSONB-modifying operators and functions</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>JSONB Subscripting</u></a>	Yes	Yes	Yes	Yes	No	No
<a href="#"><u>JSON data type</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>SQL/JSON constructors</u></a>	Yes	Yes	No	No	No	No
<a href="#"><u>SQL/JSON: datetime()</u></a>	Yes	Yes	Yes	Yes	Yes	No
<a href="#"><u>SQL/JSON IS JSON</u></a>	Yes	Yes	No	No	No	No
<a href="#"><u>SQL/JSON path expressions</u></a>	Yes	Yes	Yes	Yes	Yes	Yes

## Partitioning & Inheritance

	17	16	15	14	13	12
<a href="#"><u>Accelerated partition pruning</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>Declarative table partitioning</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>Default Partition</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>Foreign Key references for partitioned tables</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>Foreign table inheritance</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>Partitioning by a hash key</u></a>	Yes	Yes	Yes	Yes	Yes	Yes

	17	16	15	14	13	12
<a href="#"><u>Partition pruning during query execution</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
Support for PRIMARY KEY, FOREIGN KEY, indexes, and triggers on partitioned tables	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>Table Partitioning</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>UPDATE on a partition key</u></a>	Yes	Yes	Yes	Yes	Yes	Yes

## Views & Materialized Views

	17	16	15	14	13	12
<a href="#"><u>Materialized Views</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>Materialized views with concurrent refresh</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>SECURITY INVOKER views</u></a>	Yes	Yes	Yes	No	No	No
<a href="#"><u>Temporary VIEWS</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>Updatable views</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>WITH CHECK clause</u></a>	Yes	Yes	Yes	Yes	Yes	Yes

## Replication

	17	16	15	14	13	12
<a href="#"><u>ALTER SUBSCRIPTION ... SKIP</u></a>	Yes	Yes	Yes	No	No	No
<a href="#"><u>Cascading streaming replication</u></a>	Yes	Yes	Yes	Yes	Yes	Yes

	17	16	15	14	13	12
<a href="#"><u>Configure max WAL retention for replication slots</u></a>	Yes	Yes	Yes	Yes	Yes	No
<a href="#"><u>Logical replication</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>Logical replication avoids replication loops</u></a>	Yes	Yes	No	No	No	No
<a href="#"><u>Logical replication column lists</u></a>	Yes	Yes	Yes	No	No	No
<a href="#"><u>Logical replication for partitioned tables</u></a>	Yes	Yes	Yes	Yes	Yes	No
<a href="#"><u>Logical replication from standbys</u></a>	Yes	Yes	No	No	No	No
<a href="#"><u>Logical replication initial sync using binary protocol</u></a>	Yes	Yes	No	No	No	No
<a href="#"><u>Logical replication lookups with additional indexes</u></a>	Yes	Yes	No	No	No	No
<a href="#"><u>Logical replication parallel apply of transactions</u></a>	Yes	Yes	No	No	No	No
<a href="#"><u>Logical replication publish all tables in schema</u></a>	Yes	Yes	Yes	No	No	No
<a href="#"><u>Logical replication row filtering</u></a>	Yes	Yes	Yes	No	No	No
<a href="#"><u>Logical replication stream in-progress transactions</u></a>	Yes	Yes	Yes	Yes	No	No
<a href="#"><u>Logical replication subscriber can disable on error</u></a>	Yes	Yes	Yes	No	No	No

	17	16	15	14	13	12
<a href="#"><u>Quorum commit for synchronous replication</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>Replication Slots</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>Streaming-only cascading replication</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>Streaming Replication</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>Synchronous replication</u></a>	Yes	Yes	Yes	Yes	Yes	Yes

## Backup, Restore, & Data Integrity

	17	16	15	14	13	12
<a href="#"><u>Archive modules</u></a>	Yes	Yes	Yes	No	No	No
<a href="#"><u>Checksum on data pages</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>Enable/Disable page checksums in an offline cluster</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>Generic WAL facility</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>Hot Standby</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>lz4 and Zstandard (zstd) compression for WAL full page writes</u></a>	Yes	Yes	Yes	No	No	No
<a href="#"><u>min_wal_size / max_wal_size</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>Multiple synchronous standbys</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>Named restore points</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>Parallel pg_dump</u></a>	Yes	Yes	Yes	Yes	Yes	Yes



	17	16	15	14	13	12
<a href="#"><u>Parallel restore</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>pg_basebackup client decompression</u></a>	Yes	Yes	Yes	No	No	No
<a href="#"><u>pg_basebackup server-side compression</u></a>	Yes	Yes	Yes	No	No	No
<a href="#"><u>pg_basebackup tool</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>pg_receivewal (formerly pg_receivexlog)</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>Point-in-Time Recovery</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>Pre-fetch WAL during recovery</u></a>	Yes	Yes	Yes	No	No	No
<a href="#"><u>remote_apply mode</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>Time-delayed Standbys</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>Verify backup integrity (pg_verifybackup)</u></a>	Yes	Yes	Yes	Yes	Yes	No
<a href="#"><u>Warm Standby</u></a>	Yes	Yes	Yes	Yes	Yes	Yes

## Data Import & Export

	17	16	15	14	13	12
<a href="#"><u>COPY from/to STDIN/STDOUT</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>COPY FROM ... WHERE</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>COPY with arbitrary SELECT</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>CSV support for COPY</u></a>	Yes	Yes	Yes	Yes	Yes	Yes

## Configuration Management

	17	16	15	14	13	12
<a href="#"><u>ALTER SYSTEM</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>Fractional input for "integer" values</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>Include directives for pg_hba.conf and pg_ident.conf</u></a>	Yes	Yes	No	No	No	No
<a href="#"><u>Per user/database server configuration settings</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>pg_config system view</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>Regular expression matching in pg_hba.conf and pg_ident.conf</u></a>	Yes	Yes	No	No	No	No

## Security

	17	16	15	14	13	12
<a href="#"><u>Channel binding for SCRAM authentication</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>Client can require SCRAM channel binding</u></a>	Yes	Yes	Yes	Yes	Yes	No
<a href="#"><u>Client-specified requirements for authentication</u></a>	Yes	Yes	No	No	No	No
<a href="#"><u>Column level permissions</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>Default permissions</u></a>	Yes	Yes	Yes	Yes	Yes	Yes

	17	16	15	14	13	12
<b><u>GRANT/REVOKE ON ALL TABLES/SEQUENCES/FUNCTIONS</u></b>	Yes	Yes	Yes	Yes	Yes	Yes
<b><u>GSSAPI client and server-side encryption</u></b>	Yes	Yes	Yes	Yes	Yes	Yes
<b><u>GSSAPI support</u></b>	Yes	Yes	Yes	Yes	Yes	Yes
<b><u>Kerberos credential delegation</u></b>	Yes	Yes	No	No	No	No
<b><u>Large object access controls</u></b>	Yes	Yes	Yes	Yes	Yes	Yes
<b><u>LDAP server discovery</u></b>	Yes	Yes	Yes	Yes	Yes	Yes
<b><u>Multifactor authentication via valid client SSL/TLS certificate</u></b>	Yes	Yes	Yes	Yes	Yes	Yes
<b><u>Native LDAP authentication</u></b>	Yes	Yes	Yes	Yes	Yes	Yes
<b><u>Native RADIUS authentication</u></b>	Yes	Yes	Yes	Yes	Yes	Yes
<b><u>Per user/database connection limits</u></b>	Yes	Yes	Yes	Yes	Yes	Yes
<b><u>Predefined roles</u></b>	Yes	Yes	Yes	Yes	Yes	Yes
<b><u>Privileges for setting configuration parameters</u></b>	Yes	Yes	Yes	No	No	No
<b><u>ROLES</u></b>	Yes	Yes	Yes	Yes	Yes	Yes
<b><u>Row-Level Security</u></b>	Yes	Yes	Yes	Yes	Yes	Yes
<b><u>SCRAM-SHA-256 Authentication</u></b>	Yes	Yes	Yes	Yes	Yes	Yes
<b><u>Search+bind mode operation for LDAP authentication</u></b>	Yes	Yes	Yes	Yes	Yes	Yes
<b><u>security_barrier option on views</u></b>	Yes	Yes	Yes	Yes	Yes	Yes

	17	16	15	14	13	12
<a href="#"><u>Security Service Provider Interface (SSPI)</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>SSL certificate validation in libpq</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>SSL client certificate authentication</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>SSPI authentication via GSSAPI</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>Support using the client's OS trusted CA.</u></a>	Yes	Yes	No	No	No	No

## Transactions and Visibility

	17	16	15	14	13	12
<a href="#"><u>Cursors</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>Savepoints</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>Serializable Snapshot Isolation</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>Two Phase commit</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>Updatable cursors</u></a>	Yes	Yes	Yes	Yes	Yes	Yes

## VACUUM and Maintenance

	17	16	15	14	13	12
<a href="#"><u>Inserted data can trigger autovacuum</u></a>	Yes	Yes	Yes	Yes	Yes	No
<a href="#"><u>Integrated autovacuum daemon</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>Page freezing optimizations</u></a>	Yes	Yes	No	No	No	No

	17	16	15	14	13	12
<a href="#"><u>Parallelized VACUUM for Indexes</u></a>	Yes	Yes	Yes	Yes	Yes	No
<a href="#"><u>Parallel vacuumdb jobs</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>Radix tree memory structure for vacuum</u></a>	Yes	No	No	No	No	No
<a href="#"><u>Vacuum "emergency mode"</u></a>	Yes	Yes	Yes	Yes	No	No
<a href="#"><u>Visibility Map for Vacuuming</u></a>	Yes	Yes	Yes	Yes	Yes	Yes

## Foreign Data Wrappers

	17	16	15	14	13	12
<a href="#"><u>Certificate authentication with postgres_fdw</u></a>	Yes	Yes	Yes	Yes	Yes	No
<a href="#"><u>Foreign data wrapper query parallelism</u></a>	Yes	Yes	Yes	Yes	No	No
<a href="#"><u>Foreign data wrappers</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>Foreign Tables</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>IMPORT FOREIGN SCHEMA</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>Import foreign table partitions</u></a>	Yes	Yes	Yes	Yes	No	No
<a href="#"><u>Parallel query execution on remote databases</u></a>	Yes	Yes	Yes	Yes	No	No
<a href="#"><u>postgres_fdw parallel commit</u></a>	Yes	Yes	Yes	No	No	No
<a href="#"><u>postgres_fdw pushdown</u></a>	Yes	Yes	Yes	Yes	Yes	Yes

	17	16	15	14	13	12
<a href="#">PostgreSQL Foreign Data Wrapper</a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">Writable Foreign Data Wrappers</a>	Yes	Yes	Yes	Yes	Yes	Yes

## Custom Functions, Stored Procedures, & Triggers

	17	16	15	14	13	12
<a href="#">ALTER TABLE ENABLE/DISABLE TRIGGER</a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">ALTER TABLE / ENABLE REPLICA TRIGGER/RULE</a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">BEGIN ATOMIC function bodies</a>	Yes	Yes	Yes	Yes	No	No
<a href="#">CALL syntax for executing procedures</a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">Column level triggers</a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">CREATE PROCEDURE syntax for SQL stored procedures</a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">Event triggers</a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">FILTER clause for aggregate functions</a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">ORDER BY support within aggregates</a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">Per function GUC settings</a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">Per function statistics</a>	Yes	Yes	Yes	Yes	Yes	Yes

	17	16	15	14	13	12
<u>RETURN QUERY EXECUTE</u>	Yes	Yes	Yes	Yes	Yes	Yes
<u>RETURNS TABLE</u>	Yes	Yes	Yes	Yes	Yes	Yes
<u>Statement level triggers</u>	Yes	Yes	Yes	Yes	Yes	Yes
<u>Statement level TRUNCATE triggers</u>	Yes	Yes	Yes	Yes	Yes	Yes
<u>Triggers on views</u>	Yes	Yes	Yes	Yes	Yes	Yes
<u>Variadic functions</u>	Yes	Yes	Yes	Yes	Yes	Yes
<u>WHEN clause for CREATE TRIGGER</u>	Yes	Yes	Yes	Yes	Yes	Yes

## Procedural Languages

	17	16	15	14	13	12
<u>CASE in pl/pgsql</u>	Yes	Yes	Yes	Yes	Yes	Yes
<u>CONTINUE statement for PL/pgSQL</u>	Yes	Yes	Yes	Yes	Yes	Yes
<u>CREATE TRANSFORM</u>	Yes	Yes	Yes	Yes	Yes	Yes
<u>DO statement for pl/perl</u>	Yes	Yes	Yes	Yes	Yes	Yes
<u>DO statement for pl/pgsql</u>	Yes	Yes	Yes	Yes	Yes	Yes
<u>EXCEPTION support in PL/pgSQL</u>	Yes	Yes	Yes	Yes	Yes	Yes
<u>EXECUTE USING in PL/pgSQL</u>	Yes	Yes	Yes	Yes	Yes	Yes
<u>FOREACH IN ARRAY in pl/pgsql</u>	Yes	Yes	Yes	Yes	Yes	Yes
<u>IN/OUT/INOUT parameters for pl/pgsql and PL/SQL</u>	Yes	Yes	Yes	Yes	Yes	Yes

	17	16	15	14	13	12
<a href="#"><u>Named parameters</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>Non-superuser language creation</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>pl/pgsql installed by default</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<b>Polymorphic functions</b>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>Python 3 support for pl/python</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<b>Qualified function parameters</b>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>Query parallelism for RETURN QUERY</u></a>	Yes	Yes	Yes	Yes	No	No
<a href="#"><u>RETURN QUERY in pl/pgsql</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>ROWS and COST specification for functions</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>Scrollable and updatable cursor support for pl/pgsql</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>SQLERRM/SQLSTATE for pl/pgsql</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<b>Unicode object support in PL/python</b>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>User defined exceptions</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>Validator function for pl/perl</u></a>	Yes	Yes	Yes	Yes	Yes	Yes

## Extensions

	17	16	15	14	13	12
<a href="#"><u>CREATE EXTENSION .. CASCADE</u></a>	Yes	Yes	Yes	Yes	Yes	Yes



	17	16	15	14	13	12
<a href="#">Extension Installation</a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">Trusted Extensions</a>	Yes	Yes	Yes	Yes	Yes	No

## Internationalisation

	17	16	15	14	13	12
<a href="#">Column-level collation support</a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">Database level Collation</a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">Default ICU collations for clusters/databases</a>	Yes	Yes	Yes	No	No	No
<a href="#">EUC_JIS_2004/ SHIFT_JIS_2004 support</a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">ICU collations</a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">Multibyte encoding support, incl. UTF8</a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">Multiple language support</a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">Nondeterministic collations</a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">Unicode string literals and identifiers</a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">UTF8 support on Windows</a>	Yes	Yes	Yes	Yes	Yes	Yes

## Client Applications

	17	16	15	14	13	12
<a href="#"><u>pgbench</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>pg_prewarm</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>pg_rewind</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>pg_standby</u></a>	Obsolete	Obsolete	Obsolete	Obsolete	Yes	Yes
<a href="#"><u>pg_upgrade</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>pg_waldump</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>psql \bind</u></a>	Yes	Yes	No	No	No	No
<a href="#"><u>psql \dconfig</u></a>	Yes	Yes	Yes	No	No	No
<a href="#"><u>Version aware psql</u></a>	Yes	Yes	Yes	Yes	Yes	Yes

## Additional Modules (contrib)

	17	16	15	14	13	12
<a href="#"><u>adminpack</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>auth_delay</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>auto_explain</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>btree_gin</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>btree_gist</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>citext</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>dblink</u></a>	Yes	Yes	Yes	Yes	Yes	Yes

	17	16	15	14	13	12
<a href="#"><u>dblink asynchronous notification support</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>file_fdw</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>fuzzystrmatch</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>hstore</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>intarray</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>isn (ISBN)</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>KNN support for CUBE</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>ltree</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>pageinspect</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>passwordcheck</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>pg_buffercache</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>pg_freespacemap</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>pg_stat_statements</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>pg_stat_statements improvements</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>pgstattuple</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>pg_trgm</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>pg_trgm regular expressions indexing</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>pg_walinspect</u></a>	Yes	Yes	Yes	No	No	No
<a href="#"><u>seg</u></a>	Yes	Yes	Yes	Yes	Yes	Yes

	17	16	15	14	13	12
<a href="#"><u>sepgsql</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>sslinfo</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>tablefunc</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>tcn</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>unaccent</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>uuid-oss</u></a>	Yes	Yes	Yes	Yes	Yes	Yes

## Network

	17	16	15	14	13	12
<a href="#"><u>Full SSL support</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>IPv6 Support</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>V3 client protocol</u></a>	Yes	Yes	Yes	Yes	Yes	Yes

## Platforms

	17	16	15	14	13	12
<a href="#"><u>Microsoft Visual C++ Support</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>Native Windows Port</u></a>	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#"><u>Spinlock support for the SuperH hardware platform</u></a>	Yes	Yes	Yes	Yes	Yes	Yes

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	<b>17</b>	<b>16</b>	<b>15</b>	<b>14</b>	<b>13</b>	<b>12</b>
<b><u><a href="#">Sun Studio compiler on Linux</a></u></b>	Yes	Yes	Yes	Yes	Yes	Yes
<b><u><a href="#">Windows x64 support</a></u></b>	Yes	Yes	Yes	Yes	Yes	Yes