

The mongo Shell

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Introduction

The mongo shell is an interactive JavaScript interface to MongoDB. You can use the mongo shell to query and update data as well as perform administrative operations.

The mongo shell is a component of the [MongoDB distributions](#). Once you have [installed and have started MongoDB](#), connect the mongo shell to your running MongoDB instance.

Most examples in the [MongoDB Manual](#) use the mongo shell; however, many [drivers](#) provide similar interfaces to MongoDB.

Start the mongo Shell

IMPORTANT

Ensure that MongoDB is running before attempting to start the mongo shell.

To start the mongo shell and connect to your [MongoDB](#) instance running on **localhost** with **default port**:

1. At a prompt in a terminal window (or a command prompt for Windows), go to your `<mongodbinstallation dir>`:

```
2. cd <mongodb installation dir>
```

3. Type `./bin/mongo` to start `mongo`:

```
4. ./bin/mongo
```

If you have added the `<mongodb installation dir>/bin` to the `PATH` environment variable, you can just type `mongo` instead of `./bin/mongo`.

Options

When you run `mongo` without any arguments, the `mongo` shell will attempt to connect to the MongoDB instance running on the `localhost` interface on port 27017. To specify a different host or port number, as well as other options, see [examples of starting up mongo](#) and [mongo reference](#) which provides details on the available options.

`.mongorc.js` File

When starting, `mongo` checks the user's `HOME` directory for a JavaScript file named `.mongorc.js`. If found, `mongo` interprets the content of `.mongorc.js` before displaying the prompt for the first time. If you use the shell to evaluate a JavaScript file or expression, either by using the `--eval` option on the command line or by specifying [a .js file to mongo](#), `mongo` will read the `.mongorc.js` file *after* the JavaScript has finished processing. You can prevent `.mongorc.js` from being loaded by using the `--norc` option.

Working with the `mongo` Shell

To display the database you are using, type `db`:

```
db
```

The operation should return `test`, which is the default database. To switch databases, issue the `use <db>` helper, as in the following example:

```
use <database>
```

To list the available databases, use the helper `show dbs`. See also `db.getSiblingDB()` method to access a different database from the current database without switching your current database context (i.e.`db`).

You can switch to non-existing databases. When you first store data in the database, such as by creating a collection, MongoDB creates the database. For example, the following creates both the database`myNewDatabase` and the [collection](#) `myCollection` during the `insert()` operation:

```
use myNewDatabase

db.myCollection.insert( { x: 1 } );
```

The `db.myCollection.insert()` is one of the [methods available in the mongo shell](#)

- `db` refers to the current database.
- `myCollection` is the name of the collection.

If the [mongo](#) shell does not accept the name of the collection, for instance if the name contains a space, hyphen, or starts with a number, you can use an alternate syntax to refer to the collection, as in the following:

```
db["3test"].find()

db.getCollection("3test").find()
```

For more documentation of basic MongoDB operations in the [mongo](#) shell, see:

- [Getting Started Guide](#)
- [Insert Documents](#)
- [Query Documents](#)
- [Modify Documents](#)
- [Remove Documents](#)
- [mongo Shell Methods](#)

Format Printed Results

The `db.collection.find()` method returns a [cursor](#) to the results; however, in the [mongo](#) shell, if the returned cursor is not assigned to a variable using the `var` keyword, then the cursor is automatically iterated up to 20 times to print up to the first 20 documents that match the query. The [mongo](#) shell will prompt `Typeit` to iterate another 20 times.

To format the printed result, you can add the `.pretty()` to the operation, as in the following:

```
db.myCollection.find().pretty()
```

In addition, you can use the following explicit print methods in the [mongo](#) shell:

- `print()` to print without formatting
- `print(tojson(<obj>))` to print with [JSON](#) formatting and equivalent to `printjson()`
- `printjson()` to print with [JSON](#) formatting and equivalent to `print(tojson(<obj>))`

For more information and examples on cursor handling in the [mongo](#) shell, see [Cursors](#). See also [Cursor Help](#) for list of cursor help in the [mongo](#) shell.

Multi-line Operations in the [mongo](#) Shell

If you end a line with an open parenthesis (`(`), an open brace (`{`), or an open bracket (`[`), then the subsequent lines start with ellipsis (`"..."`) until you enter the corresponding closing parenthesis (`)`), the closing brace (`}`) or the closing bracket (`]`). The [mongo](#) shell waits for the closing parenthesis, closing brace, or the closing bracket before evaluating the code, as in the following example:

```
> if ( x > 0 ) {  
  
... count++;
```

```
... print (x);  
  
... }
```

You can exit the line continuation mode if you enter two blank lines, as in the following example:

```
> if (x > 0  
  
...  
  
...  
  
>
```

Tab Completion and Other Keyboard Shortcuts

The `mongo` shell supports keyboard shortcuts. For example,

- Use the up/down arrow keys to scroll through command history. See [.dbshell](#) documentation for more information on the `.dbshell` file.
- Use `<Tab>` to autocomplete or to list the completion possibilities, as in the following example which uses `<Tab>` to complete the method name starting with the letter 'c':

```
• db.myCollection.c<Tab>
```

Because there are many collection methods starting with the letter 'c', the `<Tab>` will list the various methods that start with 'c'.

For a full list of the shortcuts, see [Shell Keyboard Shortcuts](#)

Exit the Shell

To exit the shell, type `quit()` or use the `<Ctrl-c>` shortcut.

