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## A Tiny MongoDB Browser Shell

Just enough to scratch the surface (mini tutorial included)

```
type "tutorial" to start the tutorial
> t2
2. Documents
MongoDB is a document database. This means that we store data as documents,
which are similar to JavaScript objects. Here below are a few sample JS objects:
  var a = {age: 25};
  var n = {name: 'Ed', languages: ['c', 'ruby', 'js']};
  var student = {name: 'Jim', scores: [75, 99, 87.2]};
Create some documents, then enter 'next'
> var obj = {part1: [a,b,c,d], part2:[a,b,c,d]}
JS Error: ReferenceError: a is not defined
> var obj = {part1: ['a','b','c','d'], part2:[1,2,3,4]}
{
  "part1" : [  "a",   "b",   "c",   "d" ],
  "part2" : [  1,    2,    3,    4 ]
}
> next
3. Saving
```

## Agile and Scalable

MongoDB (from "humongous") is a scalable, high-performance, open source NoSQL database. Written in C++, MongoDB features:

Document-Oriented Storage

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## A Tiny MongoDB **Browser Shell**

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```
[
]
> db.obj.find()

[
  { "a" : 2, "_id" : { "$oid" : "51477d92cc93742c160340ea" } },
  { "exam" : 5, "a" : 0, "_id" : { "$oid" : "51477dfdcc93742c160340ed" } },
  { "exam" : 5, "a" : 1, "_id" : { "$oid" : "51477dfdcc93742c160340ee" } },
  { "exam" : 5, "a" : 3, "_id" : { "$oid" : "51477dfdcc93742c160340ef" } },
  { "exam" : 5, "a" : 2, "_id" : { "$oid" : "51477dfdcc93742c160340f0" } },
  { "exam" : 5, "a" : 5, "_id" : { "$oid" : "51477dfdcc93742c160340f1" } },
  { "exam" : 5, "a" : 4, "_id" : { "$oid" : "51477dfdcc93742c160340f2" } },
  { "exam" : 5, "a" : 6, "_id" : { "$oid" : "51477dfdcc93742c160340f3" } },
  { "exam" : 5, "a" : 7, "_id" : { "$oid" : "51477dfdcc93742c160340f4" } },
  { "exam" : 5, "a" : 8, "_id" : { "$oid" : "51477dfdcc93742c160340f5" } }
]
>
```

## Agile and Scalable

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- **Document-Oriented Storage »**  
JSON-style documents with dynamic schemas offer simplicity and power.
- **Full Index Support »**

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Just enough to scratch the surface (mini tutorial included)

```
db.scores.find({a: {'$gt': 15}});

> db.obj.find({a: 2});

[
  { "a" : 2, "_id" : { "$oid" : "51477d92cc93742c160340ea" } },
  { "exam" : 5, "a" : 2, "_id" : { "$oid" : "51477dfdcc93742c160340f0" } }
]

> db.obj.find({a: {'$gt':15}});
JS Error: SyntaxError: Unexpected token {
> db.obj.find({a: {'$gt':15}});

[
]

>

> |
```

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Just enough to scratch the surface (mini tutorial included)

```
[
  { "a" : 2, "_id" : { "$oid" : "51477d92cc93742c160340ea" } },
  { "exam" : 5, "a" : 3, "_id" : { "$oid" : "51477dfdcc93742c160340ef" } },
  { "exam" : 5, "a" : 2, "_id" : { "$oid" : "51477dfdcc93742c160340f0" } },
  { "exam" : 5, "a" : 4, "_id" : { "$oid" : "51477dfdcc93742c160340f2" } }
]
> db.obj.find({a: {'$gte': [2,3,4]}});

[
]
> db.obj.find({a: {'$lte': [2,3,4]}});

[
]
> db.obj.find({a: {'$lte': [2,3,4]}});
```

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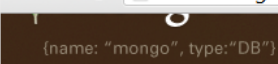
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## A Tiny MongoDB Browser Shell

Just enough to scratch the surface (mini tutorial included)

```
db.users.update({name: 'Johnny'}, {name: 'Cash', languages: ['english']});
> db.users.save({name: 'Jimmy', languages: ['ruby', 'c']});
"ok"
> db.users.save({name: 'Susan', languages: ['scala', 'lisp']});
JS Error: SyntaxError: Unexpected token }
> db.users.save({name: 'Susan', languages: ['scala', 'lisp']});
"ok"
> db.users.find()

[
  { "name" : "Jimmy", "_id" : { "$oid" : "51477f0ecc93742c160340fc" }, "languages" : [ "ruby", "c"
  ] },
  { "name" : "Susan", "_id" : { "$oid" : "51477f36cc93742c160340fd" }, "languages" : [ "scala",
    "lisp" ] }
]
```

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A Tiny MongoDB **Browser Shell**

Just enough to scratch the surface (mini tutorial included)

```
ok
> db.users.update({name: 'Susan'}, {'$push': {'languages': 'ruby'}});
"ok"
> db.user.find()

[
]
> db.users.find()

[
  { "name" : "Jimmy", "_id" : { "$oid" : "51477f0ecc93742c160340fc" }, "languages" : [ "ruby", "c"
  ] },
  { "name" : "Susan", "_id" : { "$oid" : "51477f36cc93742c160340fd" }, "languages" : [ "lisp",
  "ruby" ] }
]
```

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```
ok
> db.users.update({name: 'Susan'}, {'$push': {'languages': 'ruby'}});
"ok"
> db.user.find()

[
]
> db.users.find()

[
  { "name" : "Jimmy", "_id" : { "$oid" : "51477f0ecc93742c160340fc" }, "languages" : [ "ruby", "c"
  ] },
  { "name" : "Susan", "_id" : { "$oid" : "51477f36cc93742c160340fd" }, "languages" : [ "lisp",
  "ruby" ] }
]
```

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