

 [mongoose-cheatsheet.md](#)

Definitely not comprehensive. This is meant to be a basic memory aid with links to get more details. I'll add to it over time.

## Install

```
$ npm install mongoose --save
```

## Connect

```
const mongoose = require('mongoose');

const uri = process.env.MONGO_URI || 'mongodb://localhost/test';

mongoose.connect(uri, function(err, res) {
  ...
});
```

## Defining a schema

```
const userSchema = new mongoose.Schema({
  name: {
    first: String,
    last: { type: String, trim: true }
  },
  age: { type: Number, min: 0 },
  posts: [ { title: String, url: String, date: Date } ],
  updated: { type: Date, default: Date.now }
});
```

## SchemaTypes

- String
- Number
- Date
- Buffer
- Boolean
- Mixed
- ObjectId
- Array

- [SchemaTypes](#)
- [SchemaType API](#)
- [SchemaType#default](#)
- [SchemaType#validate](#)
- [get](#)
- [set](#)
- [select](#)

## Notes

Mixed types and dates that are modified using JavaScript Date methods are not hooked into mongoose change tracking logic. To save changes, let mongoose know about them using `markModified('path')` before calling `save`.

## Instantiating a model

A model is a constructor compiled from a schema. Model instances represent documents.

```
const User = mongoose.model('User', userSchema);

var u = new User({
  name: {
    first: 'Tony',
    last: 'Pujals'
  },
  age: 99
});
```

## Query

[query](#)

### \$where

```
query.$where('this.comments.length > 10 || this.name.length > 5')

// or

query.$where(function() {
  return this.comments.length > 10 || this.name.length > 5;
});
```

[mongodb \\$where](#)

### \$all

[mongoose \\$all](#)

[mongodb \\$all](#)

### \$count

[http://mongoosejs.com/docs/api.html#query\\_Query-count](http://mongoosejs.com/docs/api.html#query_Query-count)

### \$distinct

[http://mongoosejs.com/docs/api.html#query\\_Query-distinct](http://mongoosejs.com/docs/api.html#query_Query-distinct)

### #elemMatch

[http://mongoosejs.com/docs/api.html#query\\_Query-elemMatch](http://mongoosejs.com/docs/api.html#query_Query-elemMatch)

### #equals

[http://mongoosejs.com/docs/api.html#query\\_Query-equals](http://mongoosejs.com/docs/api.html#query_Query-equals)

### #exec

[http://mongoosejs.com/docs/api.html#query\\_Query-exec](http://mongoosejs.com/docs/api.html#query_Query-exec)

### #exists

[http://mongoosejs.com/docs/api.html#query\\_Query-exists](http://mongoosejs.com/docs/api.html#query_Query-exists)

### #find

[http://mongoosejs.com/docs/api.html#query\\_Query-find](http://mongoosejs.com/docs/api.html#query_Query-find)

### findOne

[http://mongoosejs.com/docs/api.html#query\\_Query-findOne](http://mongoosejs.com/docs/api.html#query_Query-findOne)

### findOneAndRemove

[http://mongoosejs.com/docs/api.html#query\\_Query-findOneAndRemove](http://mongoosejs.com/docs/api.html#query_Query-findOneAndRemove)

### findOneAndUpdate

[http://mongoosejs.com/docs/api.html#query\\_Query-findOneAndUpdate](http://mongoosejs.com/docs/api.html#query_Query-findOneAndUpdate)

### #gt

[http://mongoosejs.com/docs/api.html#query\\_Query-gt](http://mongoosejs.com/docs/api.html#query_Query-gt)

### #gte

[http://mongoosejs.com/docs/api.html#query\\_Query-gte](http://mongoosejs.com/docs/api.html#query_Query-gte)

### #hint

[http://mongoosejs.com/docs/api.html#query\\_Query-hint](http://mongoosejs.com/docs/api.html#query_Query-hint)

### #in

[http://mongoosejs.com/docs/api.html#query\\_Query-in](http://mongoosejs.com/docs/api.html#query_Query-in)

### #lean

[http://mongoosejs.com/docs/api.html#query\\_Query-lean](http://mongoosejs.com/docs/api.html#query_Query-lean)

### #limit

[http://mongoosejs.com/docs/api.html#query\\_Query-limit](http://mongoosejs.com/docs/api.html#query_Query-limit)

### #lt

[http://mongoosejs.com/docs/api.html#query\\_Query-lt](http://mongoosejs.com/docs/api.html#query_Query-lt)

### #lte

[http://mongoosejs.com/docs/api.html#query\\_Query-lte](http://mongoosejs.com/docs/api.html#query_Query-lte)

### #maxScan

[http://mongoosejs.com/docs/api.html#query\\_Query-maxScan](http://mongoosejs.com/docs/api.html#query_Query-maxScan)

### #merge

[http://mongoosejs.com/docs/api.html#query\\_Query-merge](http://mongoosejs.com/docs/api.html#query_Query-merge)

### #mod

[http://mongoosejs.com/docs/api.html#query\\_Query-mod](http://mongoosejs.com/docs/api.html#query_Query-mod)

### #ne

[http://mongoosejs.com/docs/api.html#query\\_Query-ne](http://mongoosejs.com/docs/api.html#query_Query-ne)

### #nin

[http://mongoosejs.com/docs/api.html#query\\_Query-nin](http://mongoosejs.com/docs/api.html#query_Query-nin)

### #nor

[http://mongoosejs.com/docs/api.html#query\\_Query-nor](http://mongoosejs.com/docs/api.html#query_Query-nor)

### #or

[http://mongoosejs.com/docs/api.html#query\\_Query-or](http://mongoosejs.com/docs/api.html#query_Query-or)

### #populate

[http://mongoosejs.com/docs/api.html#query\\_Query-populate](http://mongoosejs.com/docs/api.html#query_Query-populate)

### #read

[http://mongoosejs.com/docs/api.html#query\\_Query-read](http://mongoosejs.com/docs/api.html#query_Query-read)

### #regex

[http://mongoosejs.com/docs/api.html#query\\_Query-regex](http://mongoosejs.com/docs/api.html#query_Query-regex)

### #remove

[http://mongoosejs.com/docs/api.html#query\\_Query-remove](http://mongoosejs.com/docs/api.html#query_Query-remove)

### #select

[http://mongoosejs.com/docs/api.html#query\\_Query-select](http://mongoosejs.com/docs/api.html#query_Query-select)

### #setOptions

[http://mongoosejs.com/docs/api.html#query\\_Query-setOptions](http://mongoosejs.com/docs/api.html#query_Query-setOptions)

### #size

[http://mongoosejs.com/docs/api.html#query\\_Query-size](http://mongoosejs.com/docs/api.html#query_Query-size)

### #skip

[http://mongoosejs.com/docs/api.html#query\\_Query-skip](http://mongoosejs.com/docs/api.html#query_Query-skip)

### #slice

[http://mongoosejs.com/docs/api.html#query\\_Query-slice](http://mongoosejs.com/docs/api.html#query_Query-slice)

### #snapshot

[http://mongoosejs.com/docs/api.html#query\\_Query-snapshot](http://mongoosejs.com/docs/api.html#query_Query-snapshot)

### #sort

[http://mongoosejs.com/docs/api.html#query\\_Query-sort](http://mongoosejs.com/docs/api.html#query_Query-sort)

### #stream

[http://mongoosejs.com/docs/api.html#query\\_Query-stream](http://mongoosejs.com/docs/api.html#query_Query-stream)

### #tailable

[http://mongoosejs.com/docs/api.html#query\\_Query-tailable](http://mongoosejs.com/docs/api.html#query_Query-tailable)

### #toConstructor

[http://mongoosejs.com/docs/api.html#query\\_Query-toConstructor](http://mongoosejs.com/docs/api.html#query_Query-toConstructor)

### #update

[http://mongoosejs.com/docs/api.html#query\\_Query-update](http://mongoosejs.com/docs/api.html#query_Query-update)

### #where

[http://mongoosejs.com/docs/api.html#query\\_Query-where](http://mongoosejs.com/docs/api.html#query_Query-where)

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