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## Mongoose: Validation

So, in this section, you learned that:

 When defining a schema, you can set the type of a property to a SchemaType object. You use this object to define the validation requirements for the given property.

```
// Adding validation
new mongoose.Schema({
   name: { type: String, required: true }
})
```

- Validation logic is executed by Mongoose prior to saving a document to the database. You can also trigger it manually by calling the validate() method.
- Built-in validators:

- Strings: minlength, maxlength, match, enum

- Numbers: min, max

- Dates: min, max

- All types: required

## // Custom validation

```
tags: [
  type: Array,
  validate: {
     validator: function(v) { return v && v.length > 0; }, message:
     'A course should have at least 1 tag.'
  }
]
```

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- If you need to talk to a database or a remote service to perform the validation, you need to create an async validator:

```
validate: {
   isAsync: true
   validator: function(v, callback) {
        // Do the validation, when the result is ready, call the callback
        callback(isValid);
   }
}
```

- Other useful SchemaType properties:
  - Strings: lowercase, uppercase, trim
  - All types: **get**, **set** (to define a custom getter/setter)

```
price: {
    type: Number,
    get: v => Math.round(v),
    set: v => Math.round(v)
}
```