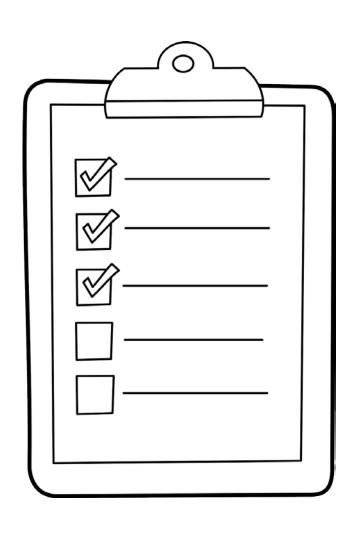
Validation

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Introduction



Built-in Validators

Custom Validators

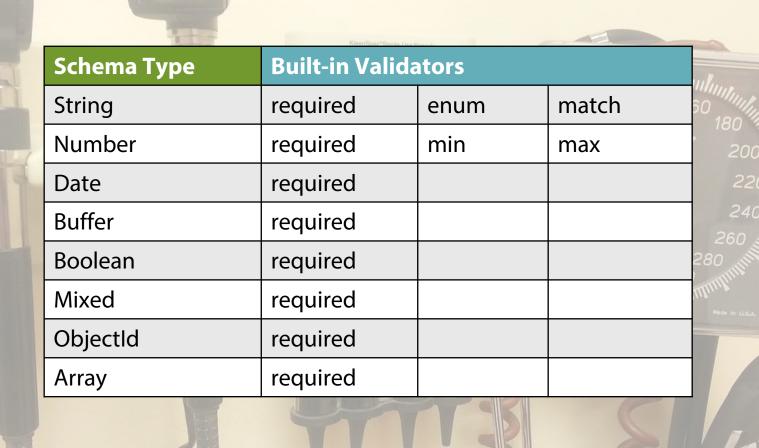
Handling Errors

Middleware

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Strings - Required

```
// Required Validator Example
var customerSchema = new Schema({
                   { type: String, required: true },
        name:
        address:
                   String,
        city:
                   String,
        state:
                   String,
        country: String,
        zipCode: Number,
        createdOn: Date,
        isActive: Boolean
});
// After the schema is defined - via the path API
customerSchema.path('city').required(true, 'Oops! Supply a city.');
// Signature = required(required, [message])
```

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Strings – Match and Enum

```
// String - Match Validator Example
var reMatch = /[a-zA-Z]/;
var customerSchema = new Schema({
    name: { type: String,
            required: true,
            match: reMatch },
        // abbreviated...
});
// String - Enum Validator Example
var impediments = ['none', 'minor', 'blocking', 'severe'];
var standupSchema = new Schema({
    // abbreviated...
    impediment: { type: String,
                  required: true,
                  enum: impediments }
});
```

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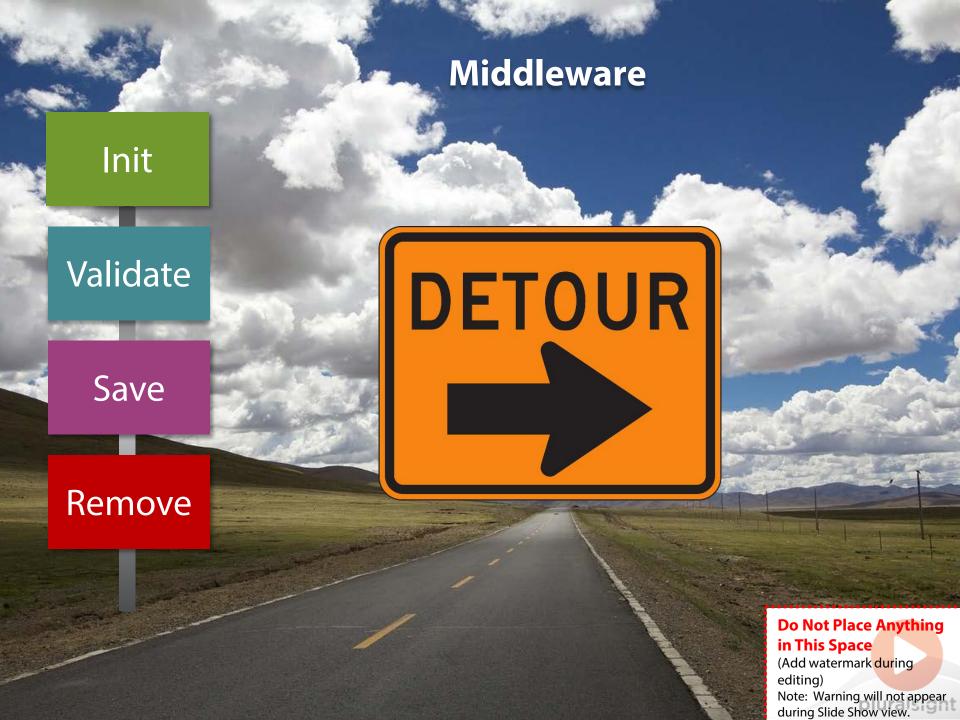
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Numbers

```
// Customers must receive at least a 5% discount
var customerSchema = new Schema({
                    String,
        name:
        // ...
        discount: { type: Number, min: 5 }
});
// Customers not allowed more than 60% discount
var customerSchema = new Schema({
        name:
                    String,
        // ...
        discount: { type: Number, max: 60 }
});
// Customers allowed a discount between 5% and 60% only
var customerSchema = new Schema({
                    String,
        name:
        // ...
        discount: { type: Number, min: 5, max: 60 }
});
```

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```
// Middleware execution flow example...
var personSchema = new Schema({
        firstName: { type: String, required: true },
        lastName: { type: String, required: true },
        status: { type: String, required: true, default: 'Alive' }
});
// Build a model from the person schema
var Person = new mongoose.model('Person', personSchema);
// New document instance of a Person model
var newPerson = new Person( { firstName: 'John', lastName: 'Doe' } );
// Save the document... Internal validation (required) kicks off now
newPerson.save(function (err) {
 if (err) return handleError(err);
 // saved the person document!
});
```



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```
// Custom validation - method signature = validate(obj, [errorMsq])
var sizeValidator = [
    function (val) {
        return (val.length > 0 && val.length <= 50)
    // Custom error text...
    'String must be between 1 and 50 characters long' ];
var personSchema = new Schema({
    firstName: { type: String, required: true, validate: sizeValidator },
    lastName: { type: String, required: true, validate: sizeValidator },
    status: { type: String, required: true, default: 'Alive' }
});
// Build a model from the person schema
var Person = new mongoose.model('Person', personSchema);
// New document instance of a Person model
var newPerson = new Person( { firstName: 'John', lastName: 'Doe' } );
// Save the document... And validate
newPerson.save(function (err) {
  if (err) return handleError(err);
 // saved the person document!
});
```

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```
var msg = module.exports = exports = {};
msq.general = {};
msg.general.default = "Validator failed for path '{PATH}' with value
`{VALUE}'";
msq.general.required = "Path '{PATH}' is required.";
msq.Number = {};
msg.Number.min = "Path '{PATH}' ({VALUE}) is less than minimum allowed
value ({MIN}).";
msg.Number.max = "Path '{PATH}' ({VALUE}) is more than maximum allowed
value ({MAX}).";
msq.String = {};
msg.String.enum = "'{VALUE}' is not a valid enum value for path
`{PATH}'.";
msg.String.match = "Path 'PATH}' is invalid ({VALUE}).";
```

{PATH} {VALUE} {TYPE} {MIN} {MAX}

var mongoose = require('mongoose');
mongoose.Error.message.Number.min = "{PATH} is too low! Must be at least
{MIN}.";

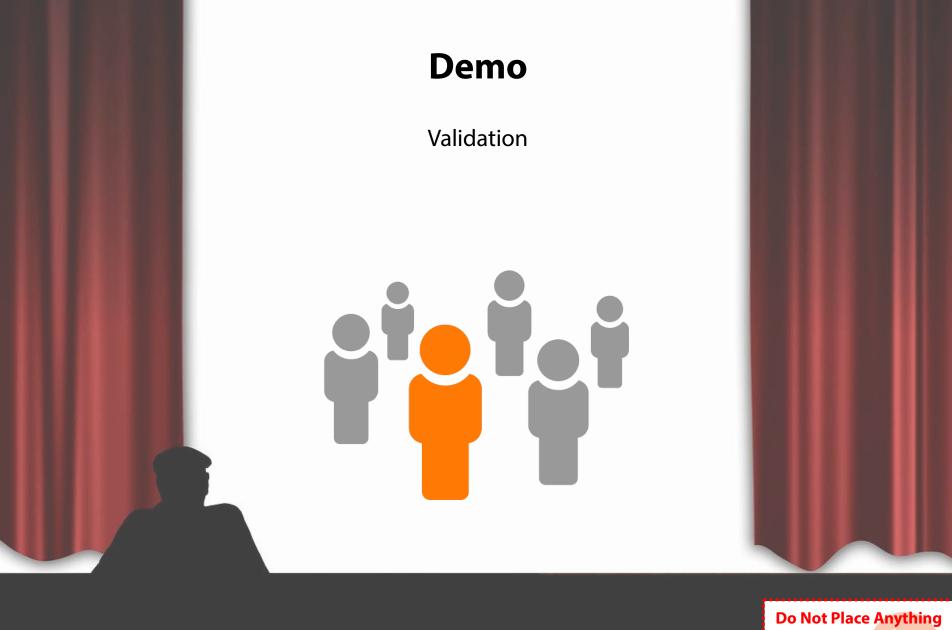
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```
// In our controller file...
// New document instance of a Person model
var newPerson = new Person( { firstName: 'John', lastName: 'Doe' } );
// Save the person document now - validation and check for error
newPerson.save(function (err) {
    if (err) {
        console.log('Sorry, there was an error: ' + err);
    else {
        console.log('Your person was saved!');
});
// more real world...
res.render('index', { title: 'Page Title Here', message: errMsg });
```

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during Slide Show view.



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