

Node.js no2

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Templates I

- ▶ Allows you to use static template files
- ▶ translated at runtime →
 - ▶ replacing variables
 - ▶ transforming template into HTML
 - ▶ send to client

→ easier to create dynamic HTML files

Templates II

Popular template engines are

- ▶ Pug (formerly **Jade**),
- ▶ **Swig**,
- ▶ Mustache,
- ▶ EJS.



Pug/Jade

Example Pug/Jade syntax:

```
1  html
2    head
3      title= title
4    body
5      h1= message
6      ul
7        each val in [1, 2, 3, 4, 5]
8          li= val
```

Swig

Example Swig syntax:

```
1 <h1>{{ pagename|title }}</h1>
2 <ul>
3   {% for author in authors %}
4     <li{% if loop.first %} class="first"{% endif %}>
5       {{ author }}
6     </li>
7   {% endfor %}
8 </ul>
```



Usage in Express I

Bootstrap configuration:

```
1 //app is an express app
2 var swig = require('swig');
3 app.engine('html', swig.renderFile);
```

And in controller action

```
1 res.render(templateName, {var1: val1, ..});
var1 then can be accessed in template, i.e. printed out:
1 {{ var1 }}
```

Node Template already has this bootstrapped, configured and ready to use.



Usage in Express II

`res.locals` are those variables visible in template.

- ▶ any middleware can modify `locals`
- ▶ `res.render` adds passed variables to `res.locals`

Accessing variables

`{{ foo.bar }}` in template equals `foo.bar` in pure Javascript and outputs it's value.

For `{{ foo.chicken-tacos }}` use `foo['chicken-tacos']`.



Filters I

Filters are variable modifiers

- ▶ it's a function returning value
- ▶ → can be chained using pipe "—"

```
1  {{ name|title }} was born on {{ birthday|date('F jS,  
   ↪ Y') }}
```

- ▶ `date` – `{{ now|date('Y-m-d') }}`
- ▶ `capitalize` – `{{ "i like Burritos"|capitalize }}`
- ▶ `json`
- ▶ `striptags`
- ▶ `sort`
- ▶ `uniq`

Filters II

Filter chaining

```
1 // my_arr = [1, 2, 3, 4, 4, 3, 2, 1];  
2 {{ my_arr|uniq|join(',') }}  
3 // => 1,2,3,4
```



Custom filter

```
1  swig.setFilter('substr', (string, start, limit) => {  
2      return (string || '').substr(start, limit);  
3  });
```



Logic tags, loops

```
1  {% for person in people %}  
2      {% if loop.first %}<ol>{% endif %}  
3      <li>{{ person.name }}</li>  
4      {% if loop.last %}</ol>{% endif %}  
5  {% endfor %}
```



Blocks, inheritance

Block

```
1 // layout.html
2 {% block myblock%}
3     ...
4 {% endblock %}
```

Inheritance

```
1 {% extends 'layout.html' %}
2 {% block myblock%}
3     overriding myblock content
4 {% endblock %}
```

Time for extras

- ▶ Q/A ..?
- ▶ Best practices ..?
- ▶ More examples of ..?
- ▶ Auth with Node.js and passport ..?