#### COMPATIBLE TEMPLATES

one syntax, many engines



#### ONE TEMPLATING SYNTAX



#### TEMPLATE EXPRESSIONS

```
{% extends "base.html" %}
{% block header %}
<h1>{{ title }}</h1>
{% endblock %}
{% block content %}
<l
  {% for name, item in items %}
 {\ name \}\:\{\ item \}\</\li>
 {% endfor %}
{% endblock %}
```

## MANY ENGINES



# MUILLICKS

A rich and powerful templating language for JavaScript.





The flexible, fast, and secure template engine for PHP

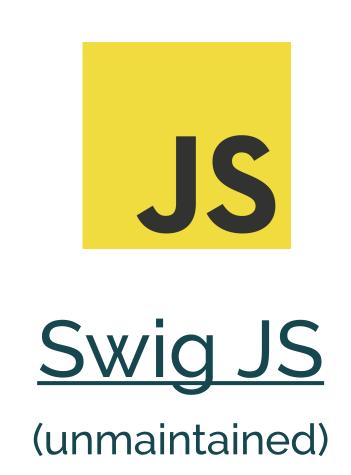


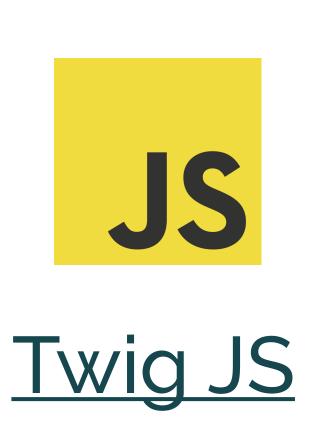
# Liquid

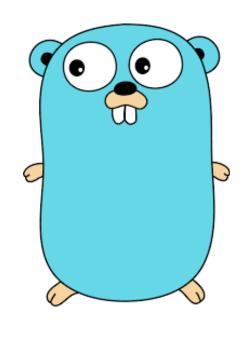




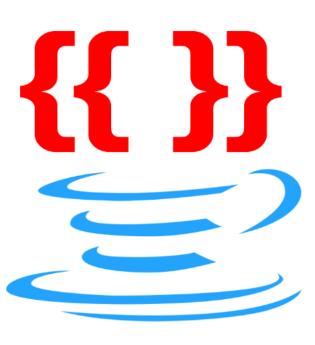
#### AND MORE...











<u>Jinjava</u>

## COMPATIBILITY

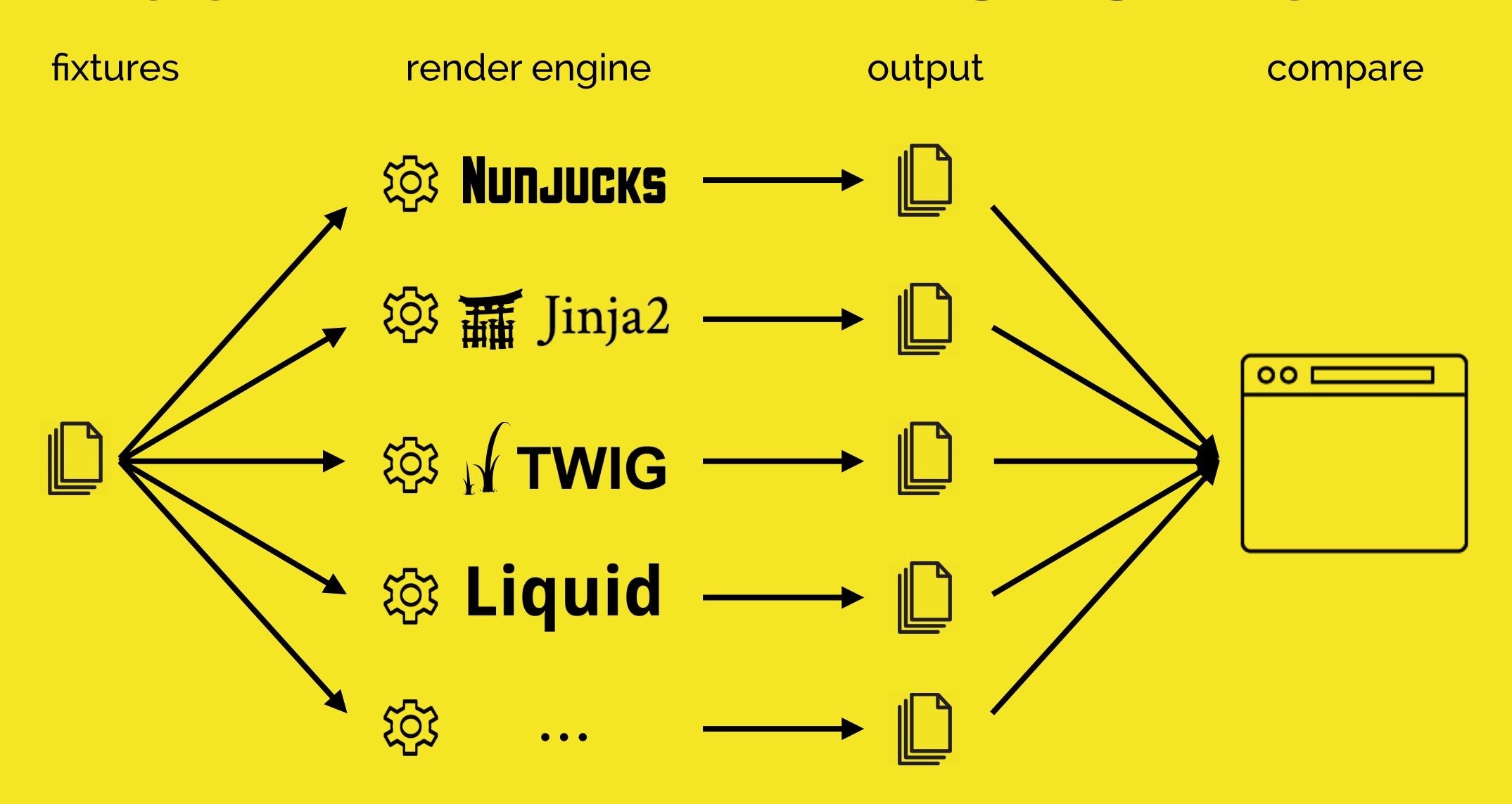


#### Template feature support per engine

= full support = partial support = none support Django Jinja2 Liquid Nunjucks Swig **Twig** Twigjs **expressions** v1.10.1 v1.24.2 v2.8.0 v3.0.6 v2.5.0 v1.4.2 v0.9.5 comparisons <u>math</u> reserved-words Jinja2 Liquid Nunjucks Swig **Twig** Twigjs Django **filters** v1.24.2 v1.10.1 v2.8.0 v3.0.6 v2.5.0 v1.4.2 v0.9.5 <u>abs</u> batch capitalize center default dictsort dump escape **filesizeformat** first float indent <u>int</u> last length lower upper Jinja2 Nunjucks Liquid Swig **Twig Twigjs** Django **functions** v1.10.1 v2.8.0 v2.5.0 v1.4.2 v1.24.2 v3.0.6 v0.9.5 <u>cycle</u> cycler range Django Jinja2 Liquid Nunjucks **Swig Twig Twigjs** <u>tags</u> v1.10.1 v2.8.0 v3.0.6 v2.5.0 v1.4.2 v1.24.2 v0.9.5 <u>if</u>

raw

#### COMPATIBILITY TEST SETUP



#### TEST:

- ▼ 🗀 tests
  - expressions
    - ▼ 🗀 comparisons
      - → ends-with.html
      - → equal-to.html
      - 🔤 equal-to.json
      - → greater-than.html
      - → greater-than-or-equal.html

      - matches.html
      - matches.json
      - → not-equal-to.html
      - not-equal-to.json
      - \* starts-with.html
      - strict-equal-to.html
      - strict-not-equal-to.html
      - logic
    - math
    - reserved-words
      - whitespace-control
  - filters
  - functions
  - tags

#### FIXTURES

```
{% if varX == varY %}
`varX` is equal to `varY`
{% endif %}

{
  "varX": "Templates",
  "varY": "Templates"
```

#### RENDER WITH EACH ENGINE

```
const env = new nunjucks.Environment(
   new nunjucks.FileSystemLoader(inputDir),
   { autoescape: true }
);
function renderTemplate(templateName, data) {
const filename = templateName + config.templateExt;
   env.render(filename, data, (err, output) => {
saveError(templateName, err);
| · · · · | · · · } · else · {
saveFile(outputDir + filename, output);
. . . . . . . . }
· · · · });
```

- output
  - django

#### OUTPUT

- inja2
- 🗀 liquid
- nunjucks
  - expressions
    - comparisons
      - ends-with.error.log
      - equal-to.html
      - greater-than.html
      - greater-than-or-equal.html
      - → less-than.html
      - less-than-or-equal.html
      - matches.error.log
      - not-equal-to.html
      - starts-with.error.log
      - → strict-equal-to.html
      - \* strict-not-equal-to.html
    - math
    - reserved-words
  - illiters
  - ighthal functions
  - tags
- swig
- twig
- \_\_ twigjs

#### PER ENGINE

Test: strict-equal-to

**Template** 

```
{% if 1234 === 1234 %}
1234 not strict equal to 1234
{% endif %}
```

Django (error) v1.10.1

Could not parse the remainder: '===' from '==='

v2.8.0 Jinja2 (error)

unexpected '='

Liquid (error) v3.0.6

Liquid error: Unknown operator

v2.5.0 **Nunjucks** 

1234 not strict equal to 1234

v1.4.2 Swig

1234 not strict equal to 1234

Twig (error) v1.24.2

Unexpected token "operator" of value "=".

Twigjs (error) v0.9.5

TypeError: Cannot read property

'forEach' of undefined

#### Template feature support per engine

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raw

#### CHALLENGES

- many languages
- package management
- Travis configuration
- API differences
- DRY cross language
- meaningful tests

```
language: php
php: '7.0'
install:
- curl -o ~/.nvm/nvm.sh https://raw.githu
- bash -c "nvm use $NODE_JS_VERSION" | | t
- bash -c "source ~/.nvm/nvm.sh; nvm inst
- npm install
- pip install --user -r requirements.txt
- composer install
- gem install bundler
- bundle install
script:
- nvm use $NODE_JS_VERSION
```

- ./build.sh

#### after\_success:

- bash ./scripts/deploy.sh

# in short: "We speak your template language"



# ROADMAP



#### ROADMAP

Cover all features
More engines
Better UI
Catchy name?

Improve compatibility of all engines

#### AIM: IMPROVE COMPATIBILITY

<u>expressions</u>	Django v1.10.1	Jinja2 v2.8.0	Liquid v3.0.6	Nunjucks v2.5.0	Swig v1.4.2	Twig v1.24.2	Twigjs v0.9.5
comparisons							
<u>math</u>							
reserved-words							
<u>filters</u>	Django v1.10.1	Jinja2 v2.8.0	Liquid v3.0.6	Nunjucks v2.5.0	Swig v1.4.2	Twig v1.24.2	Twigjs v0.9.5
<u>abs</u>							
<u>batch</u>							
<u>capitalize</u>							
<u>center</u>							
<u>default</u>							
<u>dictsort</u>							
dump							
<u>escape</u>							
<u>filesizeformat</u>							
<u>first</u>							
<u>float</u>							
<u>indent</u>							
<u>int</u>							
<u>last</u>							
<u>length</u>							
<u>lower</u>							
upper							
<u>functions</u>	Django v1.10.1	Jinja2 v2.8.0	Liquid v3.0.6	Nunjucks v2.5.0	Swig v1.4.2	Twig v1.24.2	Twigjs v0.9.5
<u>cycle</u>							
<u>cycler</u>							
<u>range</u>							
<u>tags</u>	Django v1.10.1	Jinja2 v2.8.0	Liquid v3.0.6	Nunjucks v2.5.0	Swig v1.4.2	Twig v1.24.2	Twigjs v0.9.5
if							



### DE VOORHOEDE

front-end developers