FRONT-END SERVERS simply more front-end



MORE FRONT-END



MORE FRONT-END





IN THE BROWSER



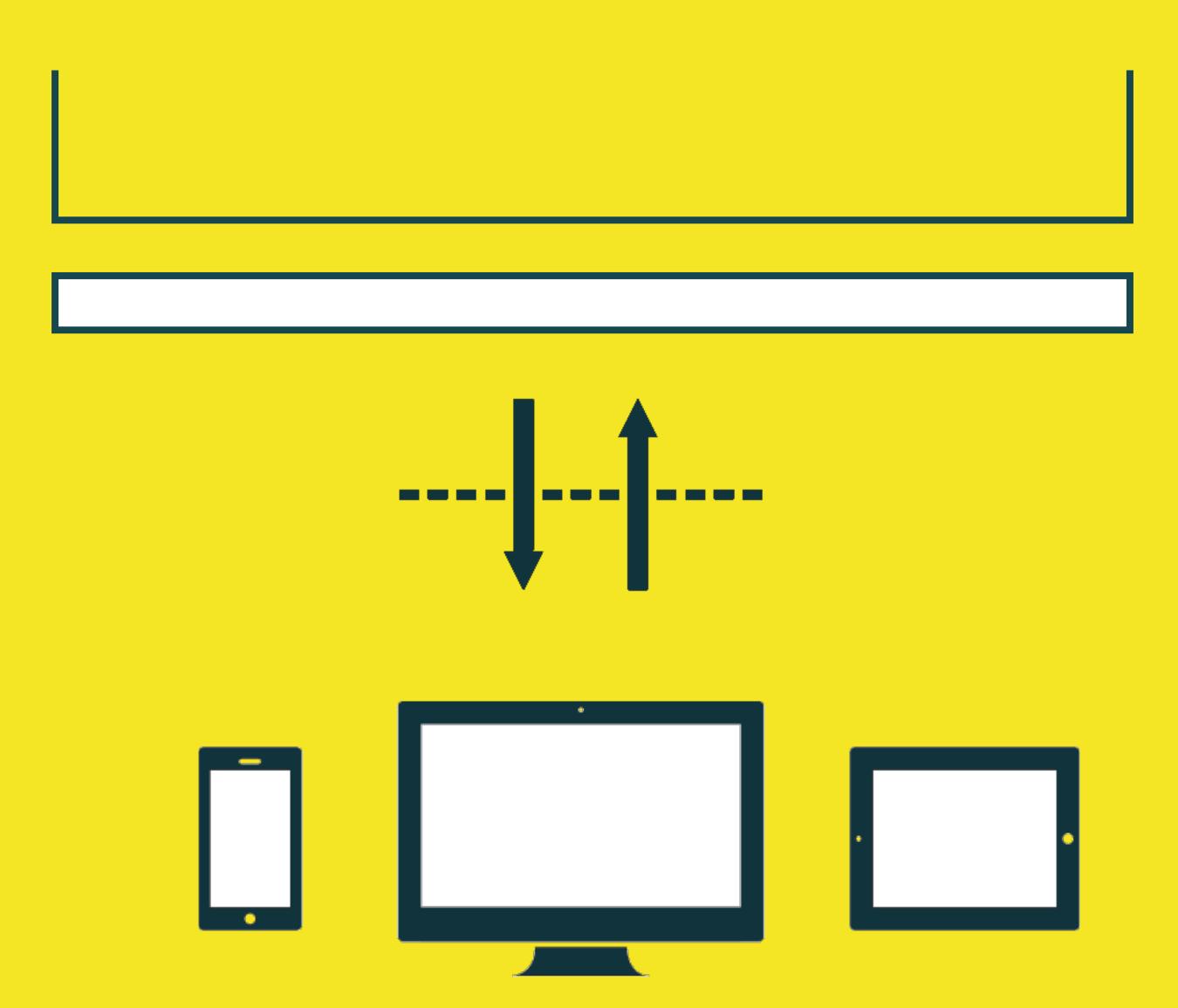


ON THE SERVER

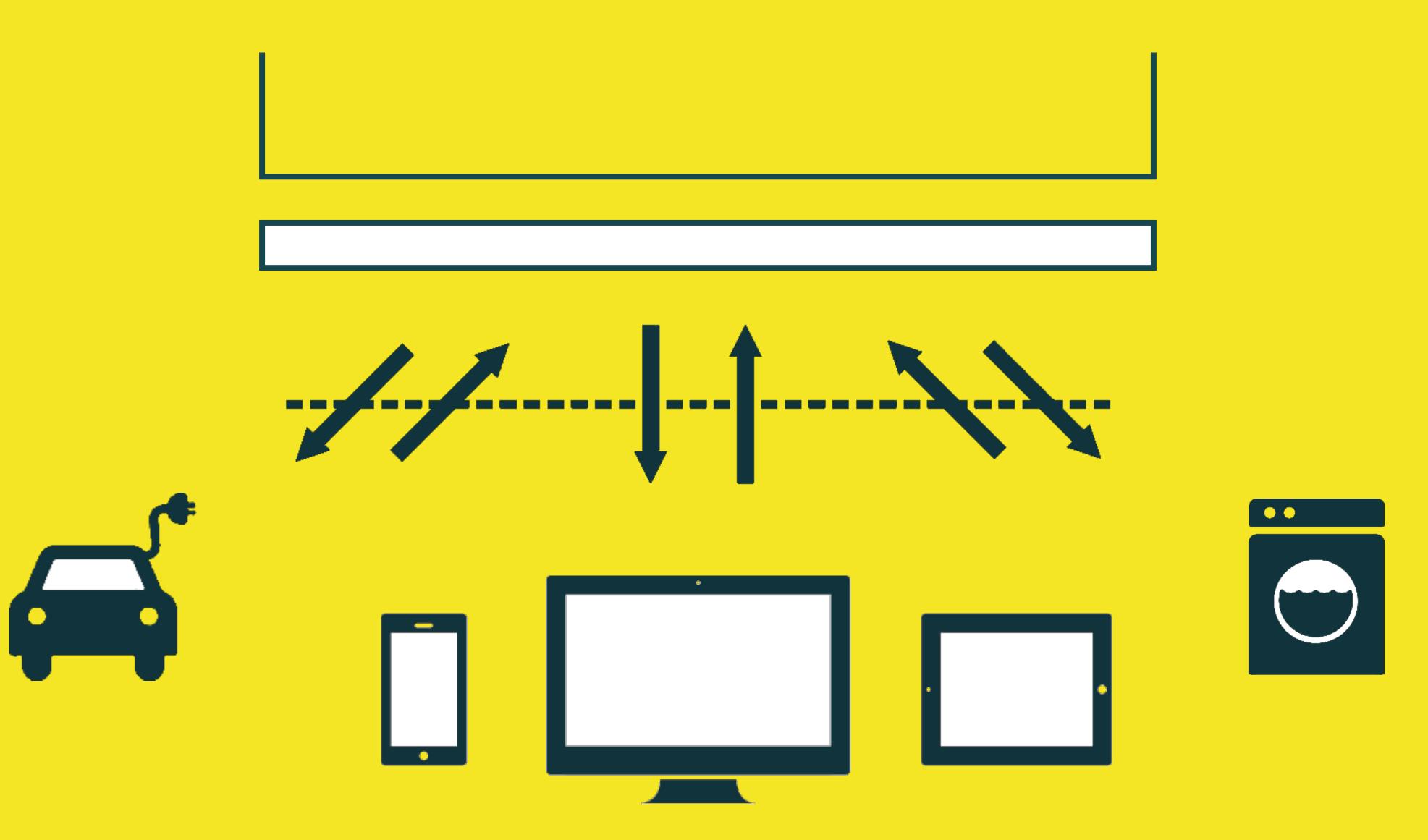




IN BETWEEN



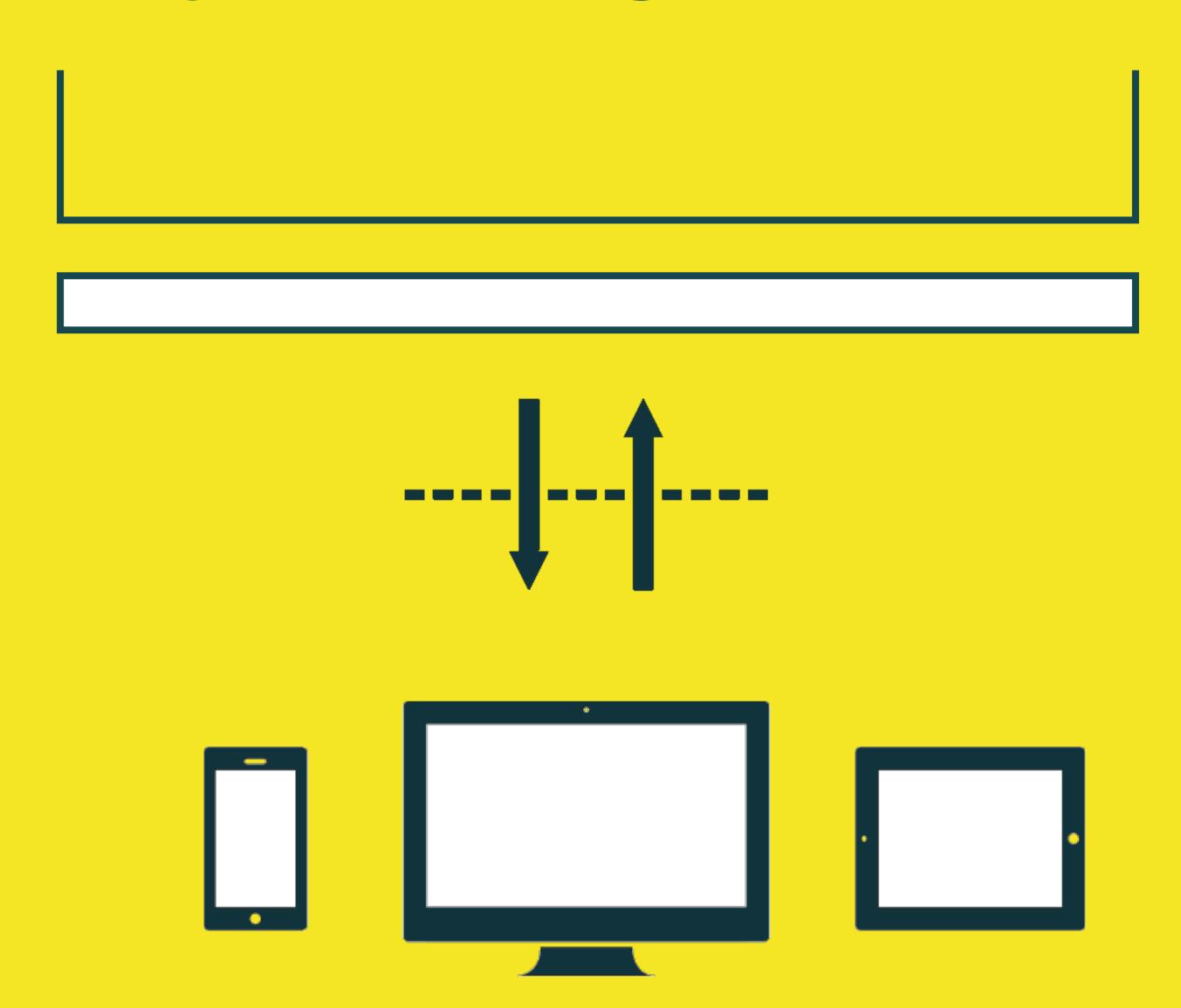
AND OTHER DEVICES?



FRONT-END SERVERS



ON THE SERVER



ON THE FRONT-END SERVER



FRONT-END SERVER

is dedicated to the best experience in the browser handles routing, data fetching, template rendering, static assets, optimises responses and caches

FRONT-END SERVER

is NOT aiming to manage business logic handle databases, search indexing user authentication & authorisation check-out & order processing etcetera

HOW?



MICRO FRAMEWORKS

```
NodeJS Express + Nunjucks
        Python Flask + Jinja2
     PHP Silex/Symfony + Twig
Golang Revel + Go HTML/Template?
       Java Spark + Jinjava?
       Ruby Sinatra + Liquid?
      C#.NET Nancy + Razor?
```

HOW TO CHOOSE?

technical requirements
experience of development team
available resources
who will maintain the app?
who will manage server operations?
whatever you feel is relevant

ROUTE - FETCH - RENDER - RESPOND

```
router.get('/blog/', function (request, response) {
 fetchPosts(request.query)
   .then(function (posts) {
     var html = nunjucks.render('blog.html', posts);
      response.end(html));
    .catch(/* handle errors */);
}):
```

ADVANCE & ENHANCE



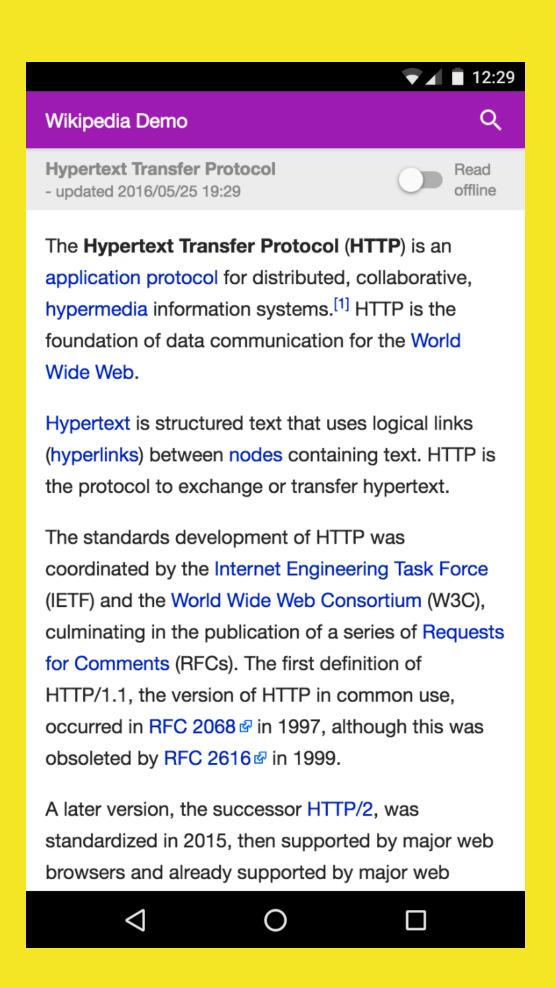
FRONT-END ENHANCEMENTS

pre-rendering optimising JSON responses aggressive caching file-level cache revision lazy loading assets cookies & critical CSS / JS speedy serving with HTTP/2 combine with Service Worker and more

EXAMPLE



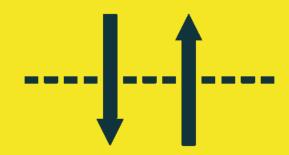
EXAMPLE - OFFLINE WIKI

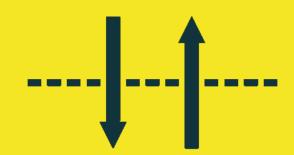


jakearchibald/offline-wikipedia

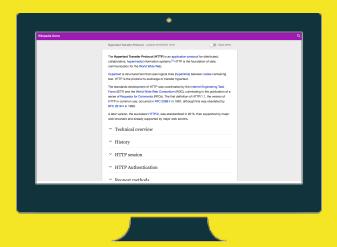
EXAMPLE - OFFLINE WIKI



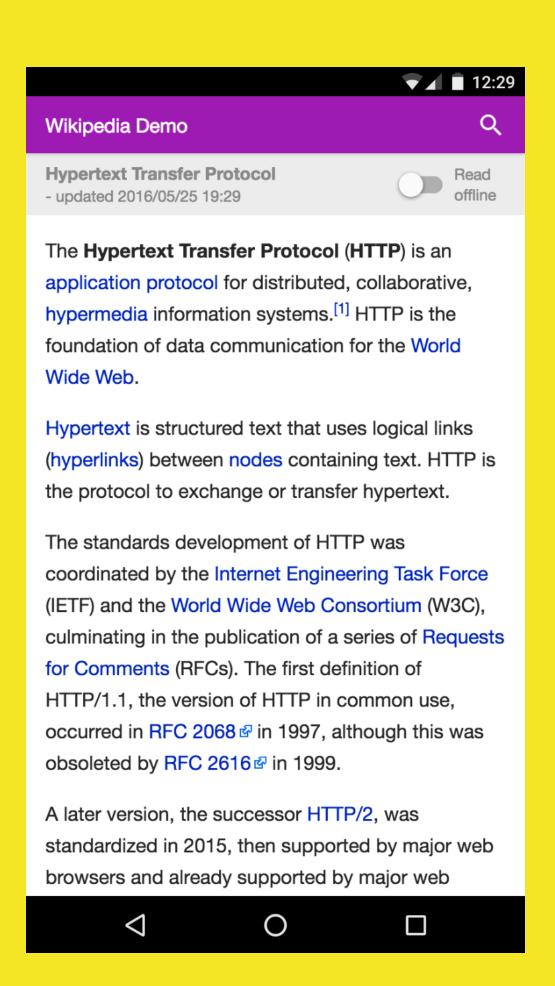








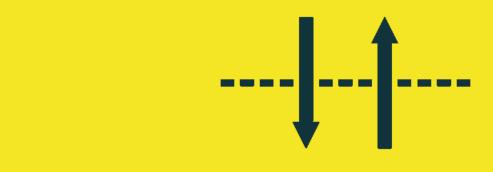


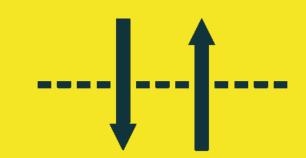


jakearchibald/offline-wikipedia

EXAMPLE - OFFLINE WIKI













Wikipedia API:

- · (open) search as JSON
- · article meta data as JSON
- article content as HTML

Front-end Server:

- request data from API
- transform data
- ·use cookie & header data
- render templates
- optimise browser responses

Front-end in browser:

optimised user experience

R.I.P. FRONT-END GUIDE?



FRONT-END GUIDE

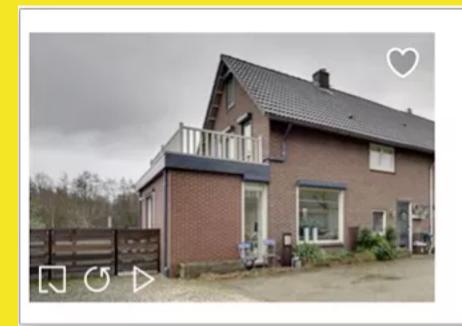
Structure (front-end) code as small and reusable modules with demos & documentation bundled with testing suite and code quality tools

REINCARNATION

keep front-end guide concepts
split it into smaller parts
apply to front-end servers

MODULE STRUCTURE

modules/ search-result/ search-result.html search-result.demo.html search-result.css search-result.js search-result.test.js README.md



Hamersestraat 45 A

6931 EW Westervoort

€ 214.500 k.k.

151 m² / 481 m² • 4 kamers sinds vandaag



Gaba Makelaardij Westervoort



Govaert Makelaardij Verhuur & Beheer

Wij hebben het huis op de juiste plek!

Vandaag geopend tot 17:30



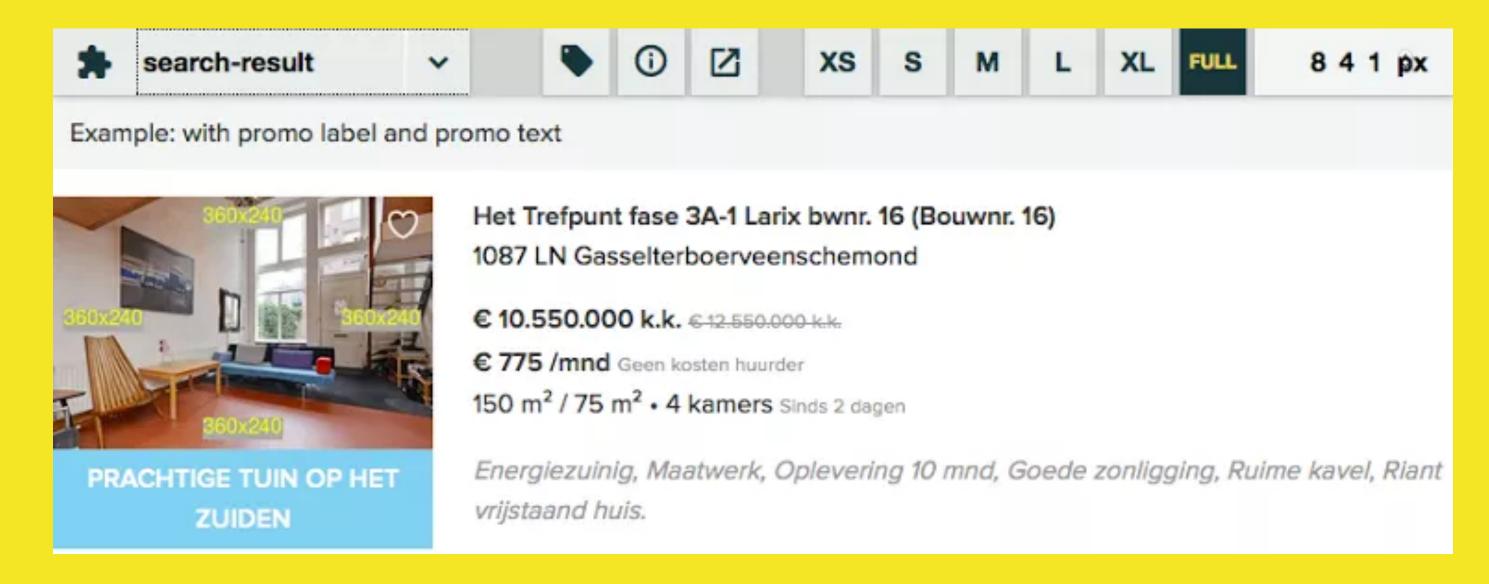
Zonnehof 6 A, Amersfoort

TEMPLATING LOGIC

```
{% block content %}
  <article><h1>{{ post.title }}</h1>
    {{ post.body | safe }}
  </article>
  <section><h2>Comments</h2>
    1% for comment in comments %
      {{ card Macro(title = comment.name, body= comment.text) }}
    {% endfor %}
  </section>
{% endblock %}
```

DEMO VIEWER

select a module info & more test responsive behaviour



preview in variations (using dummy data)

TASK RECIPES

CSS & JS pipelines sourcemaps image optimisers icon generators file watchers critical css generators test runners etcetera

PROOF OF CONCEPT



DEMO-SERVER-EXPRESS



DE VOORHOEDE

front-end developers