IS DRUPAL FAST ENOUGH FOR THE BIG COMMERCE?

- BUILDING SINGLE PAGE APP ON DRUPAL'S BACKOFFICE (ANGULARJS, PHANTOMJS, SOLR, REDIS)

BY

PIOTR KNAPIK / COP TEAM / SCHIBSTED TECH POLSKA

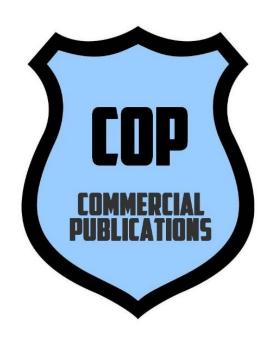




WHO AM 1?

- TEAM LEADER & END-TO-END WEB DEVELOPER IN THE COP TEAM
- OUR TEAM IS TAKING CARE OF ~20 PUBLICATIONS ON DRUPAL & WP





WHO ARE WE?

- STP STANDS FOR SCHIBSTED TECH POLSKA
- WE'RE WORKING MAINLY FOR SCANDINAVIAN MEDIA HOUSES
- JAVA, FRONTEND, PHP



- KRAKÓW
- GDAŇSK
- SCHIBSTED.PL

(120 AND GROWING)
(LAUNCHING NOW)



THE PROJECT: GODE TILBUD



- "GODE TILBUD" MEANS "GOOD OFFER"
- OFFER PORTAL FOR SMALL/MEDIUM LOCAL BUSINESS IN NORWAY / SWEDEN
- BUILD ON DRUPAL 7 IN LATE 2011 BY A NORWEGIAN CONSULTANT COMPANY

GODE TILBUD: PUBLICATIONS

- ## Aftenposten
- # Bergens A Tidende
- = Fædrelandsvennen
- **Stavanger Aftenblad**
- == Adresseavisen
- **EE** WERMLANDS-TIDNINGEN

TILBUD

BEDRIFTER

OM OSS

LOGG UT

Søk

Motor

Reise

Fritid

Bolig

Torget

Event

Osloby





Luksus rorbuferie i Lofoten



Spaopphold Kragerø



Nytt rekkverk?

Anker Brygge! Rorbusuiter fantastisk plassert i -10% Svolvær havn og en av Lofotens beste restauranter!



Send som SMS

Overnatting, frokost, lunsj, middag & oppgradering til suite.



Kragerø Resort

1 850 kr

10% rabatt til Aftenpostens lesere



Send som SMS

Send som SMS



på e-post

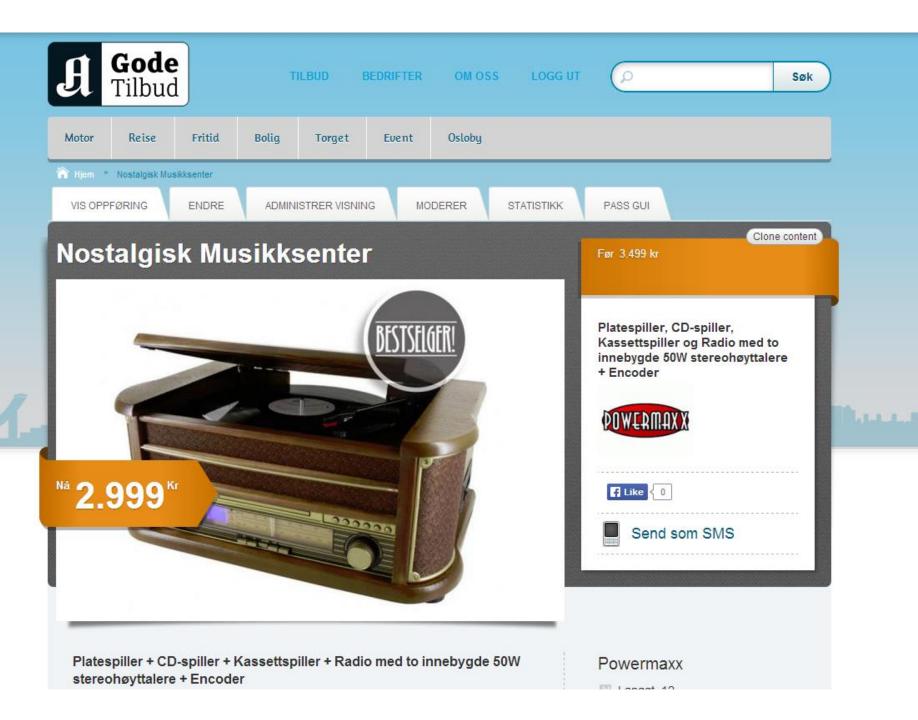
Skriv inn din e-post adresse

Send

-10%



Utvalgte bedrifter SEALLE »



STATS OVERVIEW — AP' GODETILBUD



KEY DRUPAL TECHNOLOGIES

DOMAIN ACCESS



• DRUSH - DRUPAL SHELL



• COMMERCE - STORE, OFFER...



KEY Drupal Technologies

DOMAIN ACCESS



• DRUSH - DRUPAL SHELL



• COMMERCE - STORE, OFFER...



drupal commerce



















JCAROUSEL WIDGETS

- MAIN ENTRY POINT FOR THE WHOLE PORTAL
- HEAVY TRAFFIC

SEPARATE PROJECT IN THE NEW VERSION





JCAROUSEL WIDGETS

- INCORPORATED INTO DRUPAL:
 - VIEW with NODE COLLECTION in the custom VIEW MODE
 - NODES ENCAPSULATED INTO MANY <script type="html">
 - JS Re-WRITES CONTENT INTO THE JCAROUSEL

- EFFECT?
 - TERRIBLE PERFORMANCE
 - OFFER UPDATE TIME WAS TOO LONG
 - EXTREMELY COMPLICATED DEVELOPMENT



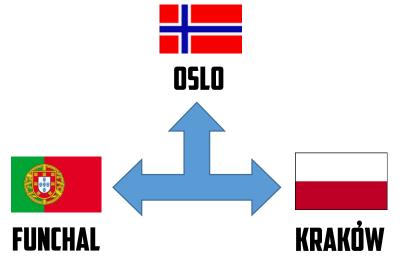


NEW CAROUSEL — UNIVERSAL CUBE



"REDESIGN PROJECT"

- · Aftenposten started the project with the consultant company
- REFRESHED DESIGN
- PERFORMANCE IMPROVEMENT
- WORK SPLIT



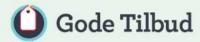
DESIGN / UX

- MODERN LOOKS
- RESPONSIVE
- LARGER, BETTER IMAGES (NO TEXT ON IMAGE! ETC.)

SPEEDY USER EXPERIENCE



SHORT UPDATE TIME FOR SMB CLIENTS



Tilbud

♥ Bedrifter

i Om gode tilbud

Søketekst

Søk



Vår på Finnskogtoppen!

Finnskogtoppen Velværehotell

Velkomment til Finnskogtoppen Velværehotell - Midt i hjertet av Finnskogen!

990 kr

Se tilbud

SISTE TILBUD









PERFORMANCE

- IDEA: DECOUPLING THE FRONTEND FROM THE BACKEND
- DIVIDE PROJECT INTO COUPLE OF SMALLER PARTS
- FRONTPAGE:
 - SIGNLE PAGE APP on AngularJS!
- DATA MIDDLEMAN
 - APACHE SOLR 4
- BACKEND:
 - DRUPAL 7 AS A BACKOFFICE





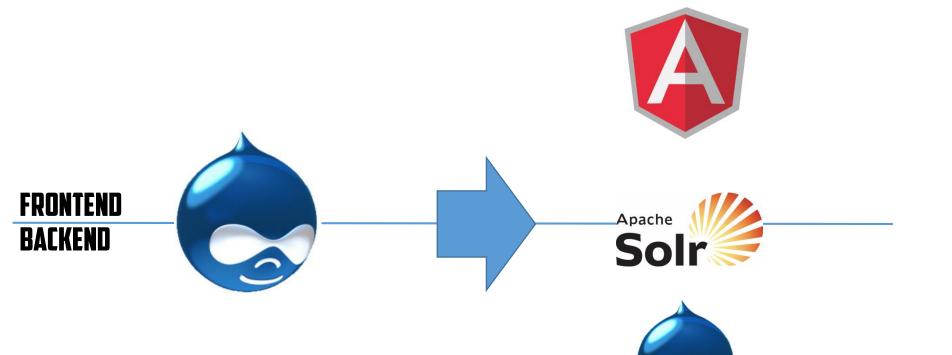


PAST:



PRESENT:





PAST:



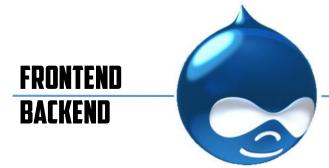
PRESENT:

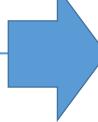












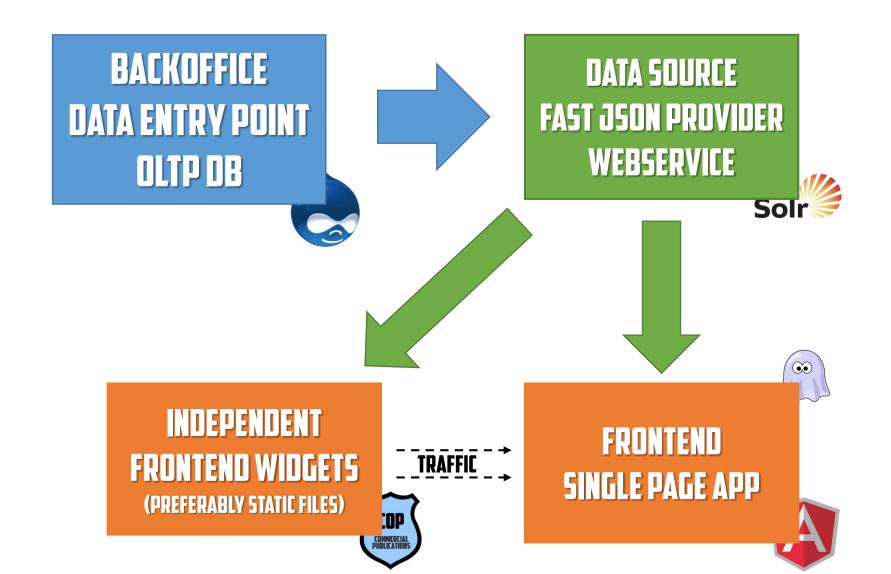








FUNCTIONAL DIAGRAM



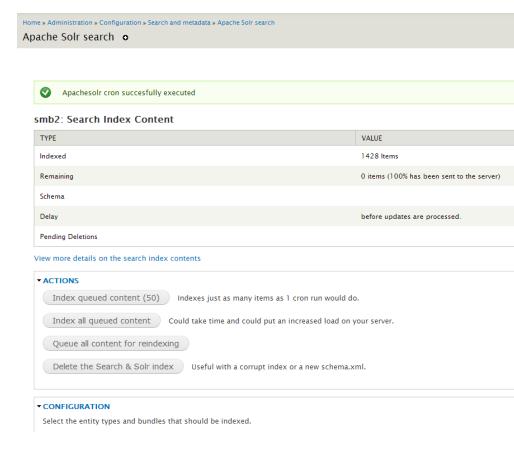
BACKEND



Apache Solr Search

• INDEXING TO THE SOLR

DRUSH CRON JOB



DATA MIDDLE MAN



• SIMPLIFIED DATA MODEL TAILORED FOR THE FRONTEND

• FULL-TEXT SEARCH, FAST JSON WEBSERVICE

• WORKS FINE WITHOUT VARNISH CACHING (A BIT SLOWER WITH HEAVY TRAFFIC)

LIMIT PUBLIC ACCESS TO THE /select URLS ONLY

```
<?xml version="1.0" encoding="UTF-8" ?>
G<schema name="ads" version="1.3">
     <types>
         (...)
    </types>
     <fields>
         <field name=" version " type="long" indexed="true" stored="true" multiValued="false" />
         <field name="id" type="long" indexed="true" stored="true" multiValued="false" />
         <dynamicField name="random *" type="random" indexed="true" stored="false" />
         (\ldots)
         <field name="address" type="text" indexed="true" stored="true" multiValued="false" />
         <field name="category" type="string" indexed="true" stored="true" multiValued="true" />
         <field name="company" type="string" indexed="true" stored="true" multiValued="false" />
         <field name="company_desc" type="text" indexed="true" stored="true" multiValued="false" />
         (\ldots)
         <field name="v2" type="boolean" indexed="true" stored="true" multiValued="false" />
         <field name="all text" type="text" indexed="true" stored="false" multiValued="true" />
         <copyField source="title" dest="all text" />
         <copyField source="body" dest="all text" />
         <copyField source="description" dest="all text" />
         (\ldots)
         <dynamicField name="*" type="ignored" multiValued="true" />
     </fields>
     <uniqueKey>id</uniqueKey>
     <defaultSearchField>all text</defaultSearchField>
     <solrQueryParser defaultOperator="OR"/>
 </schema>
```



FRONTEND



PHANTOMJS FOR STATIC FILE GENERATION

ALWAYS USE STATIC FILE IF PRESENT

SEARCH ENGINE ROBOTS ACT LIKE THE NON-JS BROWSERS

• NGINX WOULD BE FASTER THEN APACHE

STATS COUNTER



- USE THE FASTEST DB NOSOL ENGINE THAT WE KNOW REDIS
- REPLACE GOOGLE ANALYTICS ON WIDGET STATISTIC COUNT

- RESULTS
 - 40 000 HITS PER MINUTE AND REDIS WAS OK WITH THAT
 - BUT OUR VPS WENT DOWN...
 - TRIED WITH OTHER INTERNAL STATS ENGINE PUT SOME BASIC FUNCTIONALITIES DOWN FOR COUPLE OF SITES FOR ~40 MIN

POST-LAUNCH STORIES

• CAROUSEL WIDGETS ON ANGULARUS ?!

• CALL-TO-ACTION – A/B TESTED!

• TOO SMOOTH CAROUSELS' LOOK



© THE FLOATING FROG WEB AGENCY

CAROUSEL WIDGETS

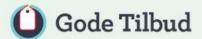
- THROW OUT:
 - ANGULARJS
 - JQUERY
 - PHANTOMJS FAILED AS A SOLUTION HERE
- IMPROVED SWIPE.JS —LESS THAN 10 AD ELEMENTS INFINITELY
- LAZY LOAD IMAGES
- GRUNT MAKES A SINGLE index.html 18.1KB (6.7KB GZIPPED)

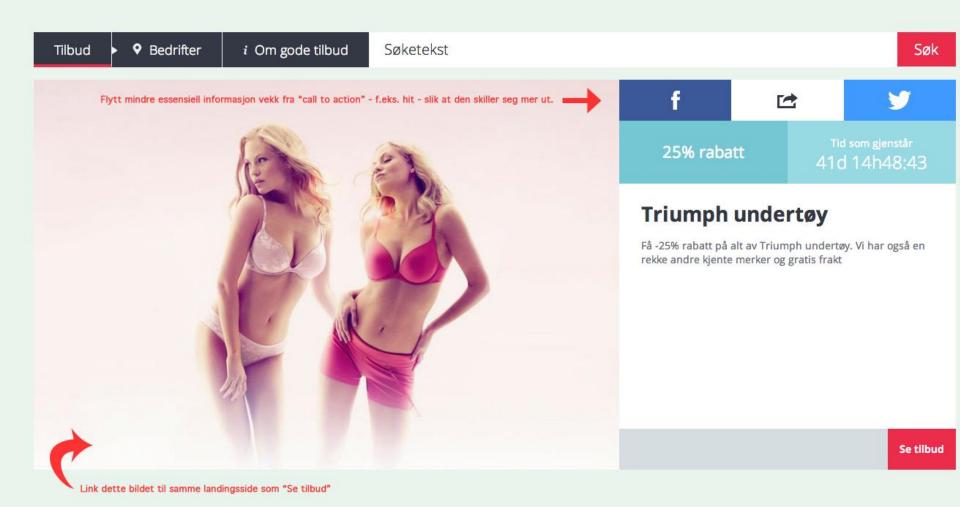
SINGLE PAGE APPLICATION? NO.

SINGLE STATIC PAGE









Triumph undertøy

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Velkommen til en hyggelig handel i vår nettbutikk

POPULÆRE TILBUD

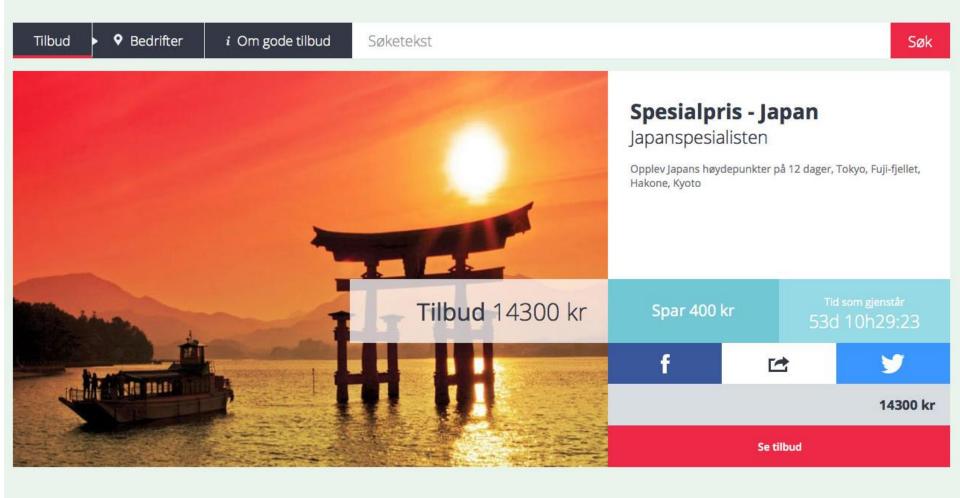


LED belysning ute og inne

Se tilbud

NEW VERSION B SCORED 57.65%





OLD DESIGN

NEW DESIGN





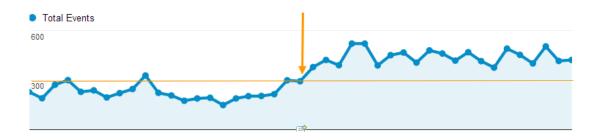
Gode Tilbud Superpriser på kajakk Kajakk & Fritid Tyrolerhus Se tilbud Se tilbud Se tilbud

NEW

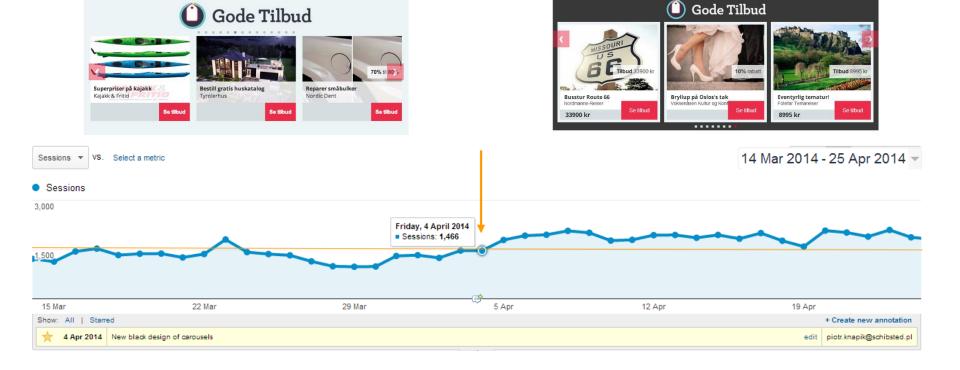
OLD



NEW DESIGN



- +40% VISITS
- +90% CLICKS TO CLIENT PAGES



CONCLUSIONS

- WE NEED TO KNOW HOW TO PICK OUR BATTLES
- DRUPAL SPA MODULES
- USE REDIS INSTEAD OF MEMCACHE 10X FASTER!
- THERE'S NO ULTIMATE ANSWER TO THE QUESTION OF THE WEB ARCHITECTURE
- https://sourcegraph.com/blog/switching-from-angularjs-to-server-side-html
- DESIGN THE PROJECTS FOR A CHANGE. CHANGE IS THE ONLY SURE THING IN THE IT.

THANK YOU FOR YOUR ATTENTION

PIOTR.KNAPIK @ SCHIBSTED.PL
COP TEAM / SCHIBSTED TECH POLSKA



