



**DRUPALCAMP** GHENT  
2016  
GROW SOME IDEAS

Giving business an  
environment to preview  
content.

Nico Knaepen - Logic in Motion



HAVE YOU EVER BEEN IN THE SITUATION

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**WHERE CUSTOMERS NOTICED  
ERRORS IN YOUR WEBSITE?**

## HI, MY NAME IS

- ▶ Nico Knaepen.
- ▶ Consultant for Logic in Motion.
- ▶ +10 years Drupal experience
- ▶ Technical Asset Manager of Drupal applications @ Colruyt Group.

LET'S TALK ABOUT

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**HOW WE PRESENT A BUSINESS AN  
ENVIRONMENT TO PREVIEW CONTENT.**



# THE REQUIREMENTS

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# WHAT BUSINESS WANTS

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**LOOK INTO THE FUTURE  
TO REVIEW CONTENT.**



# WHAT WEBMASTERS WANT

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**LOOK INTO HISTORY TO  
VIEW SNAPSHOTS OF  
CONTENT.**



WHAT THEY BOTH WANT

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**AVOID CONTENT ERRORS IN THEIR WEBSITE(S).**





WHAT ABOUT

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**CONTENT  
ERRORS?**

# SPECIAL

大陸盲槽

FRESH CRAP

\$8.99/LB\*

VILLAGE OF CRESTWOOD  
ENGLISH IS OUR  
LANGUAGE  
NO EXCETIONS  
LEARN IT

MAYOR CHESTER STRANCZEK

## Human brain is still evolving, says scientist

THE human brain is still evolving, scientists said today.

Researchers at the University of Chicago have identified two genes linked to brain size which are rapidly evolving in humans.

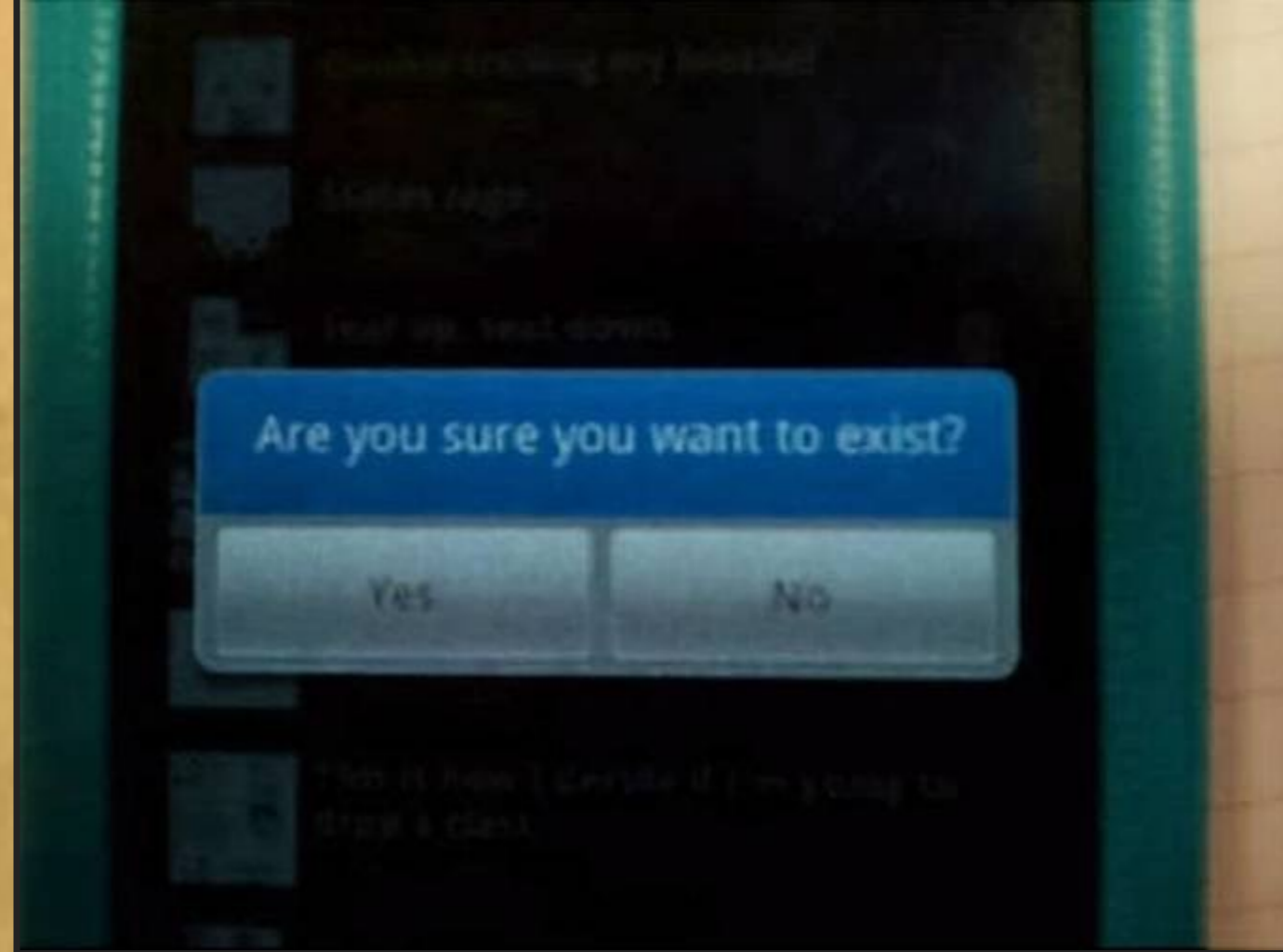
man evolution — the growth of brain size and complexity — is likely still going on.

“Meanwhile, our environment and the skills we need to survive in it are changing faster than our brains can evolve.”

# P E E F A C E .



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spondence in the follo  
explicit upon this subj





# TYPOS

Waht? We cen spel juss fien..


talks about t  
at O2. Read  
Diversity #G

Amanda [redacted]  
so many idiots in my life. i should right a book

6 hours ago Like · Comment

 Mark [redacted] likes this.

 Lauren [redacted] write  
6 hours ago Like

 Amanda [redacted] lol i know write  
6 hours ago Like

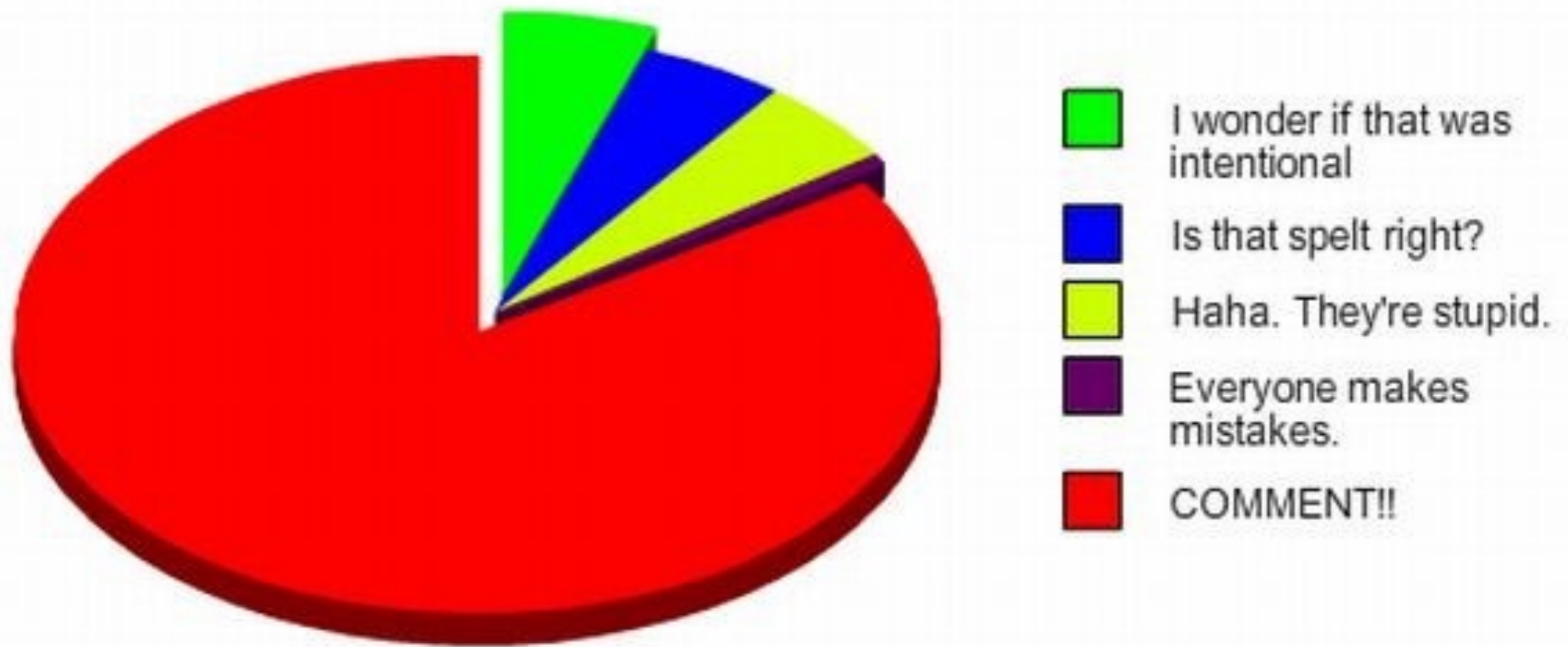
 O2 Careers  
@O2Careers

 Follow

Our HR director talks about the gender split & tits importance at O2. Read more at [o2.uk/PwA3GJ](https://o2.uk/PwA3GJ) #Diversity #Gender #Equality

# What People Think When They See a Typo Online



UPER  
BUY \$47  
H. Reg. \$1500.  
Diamond-accent cable  
necklace in sterling silver  
& 14k gold. ★ WebID  
702653.

TYPOS CAN AND WILL  
CERTAINLY COST YOU

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**MONEY**

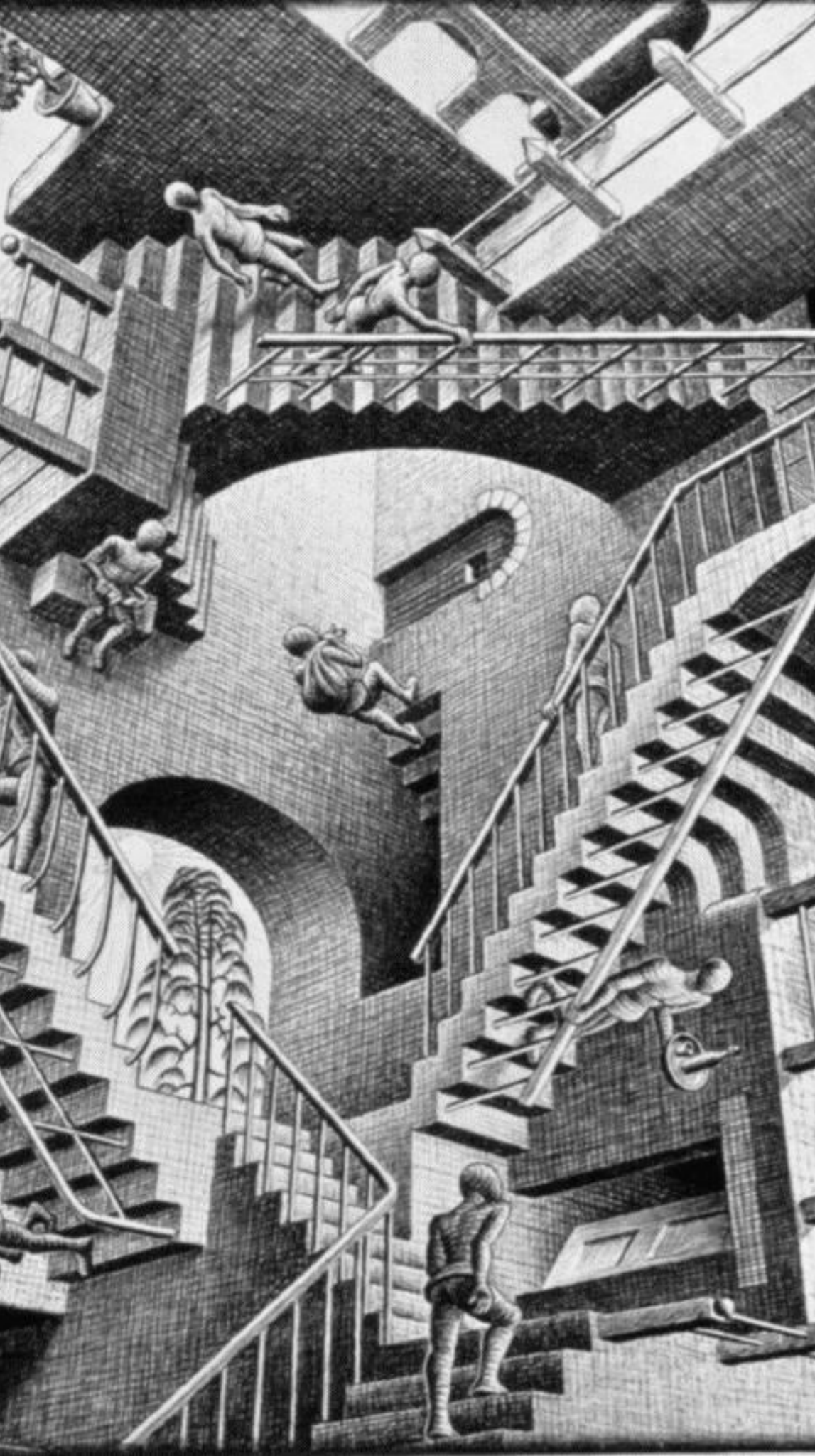


CAN WE

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**START CODING?**

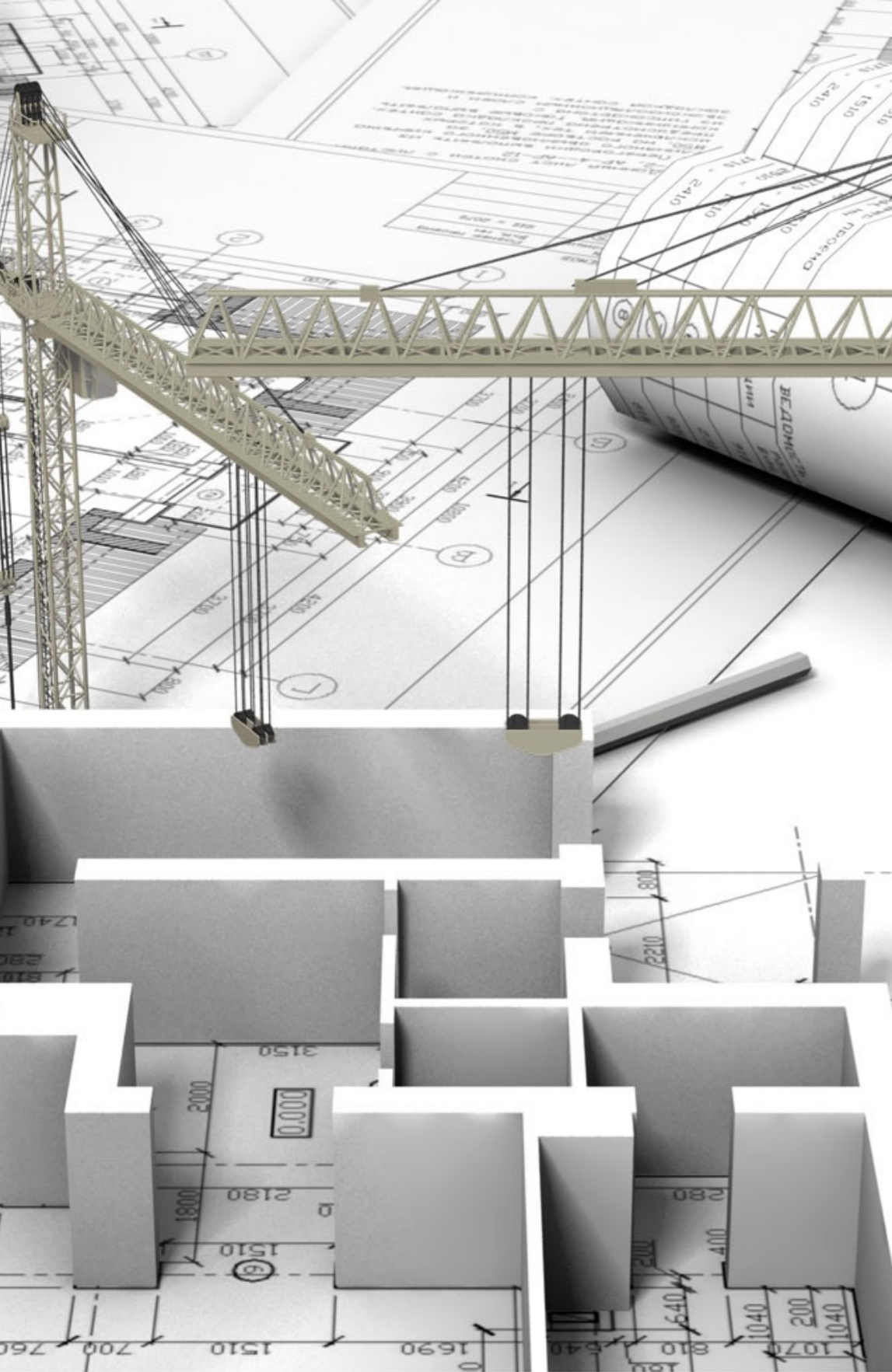




DEVELOPERS WANT  
TO

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**BUILD AN ULTIMATE  
COMPLEX SYSTEM.**



ARCHITECTS WANT A  
SOLUTION

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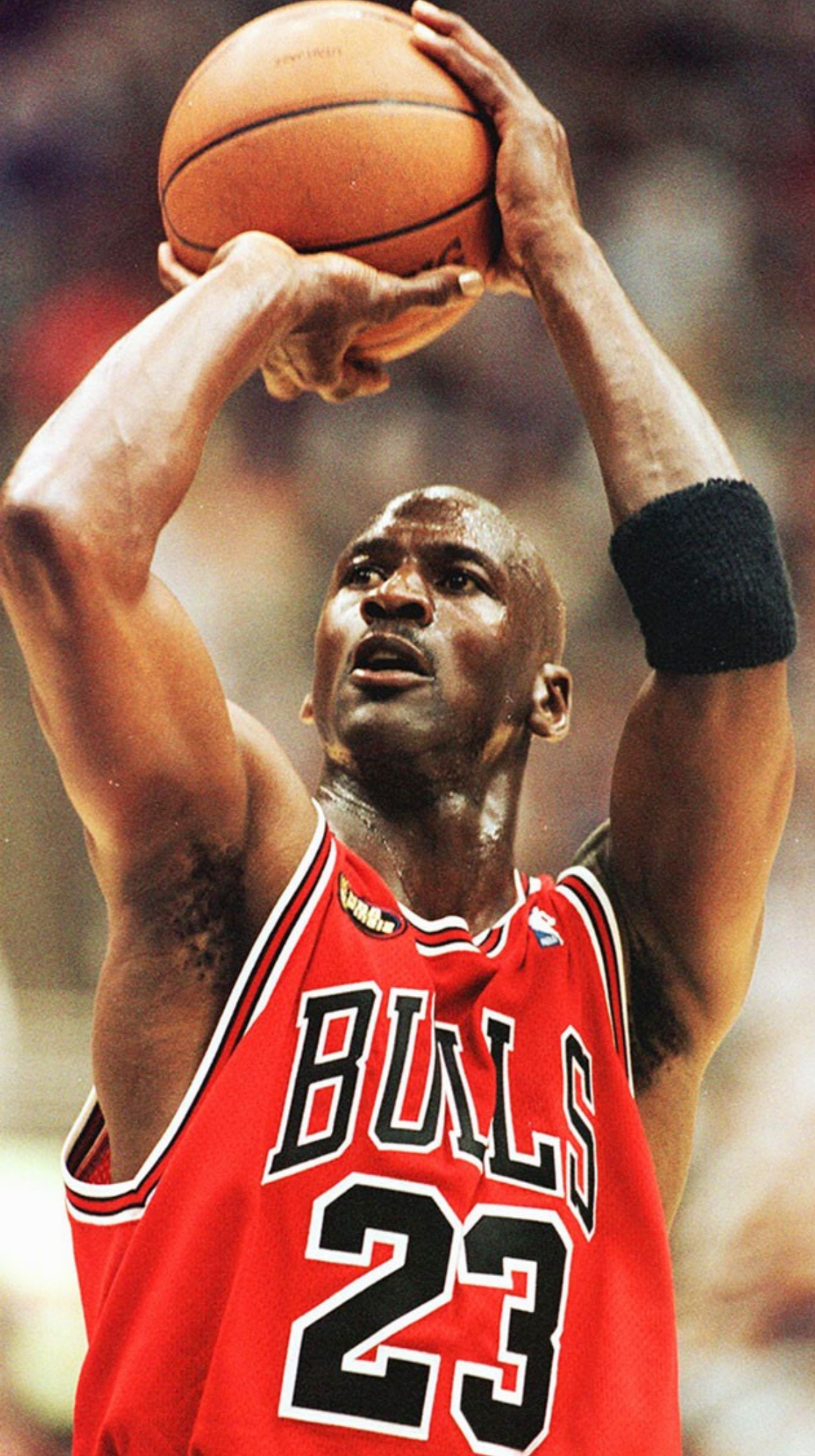
**THAT FITS THEIR  
PRE-DEFINED SETUP.**



NEVER ENOUGH

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**BUDGET!**



CONCLUSION

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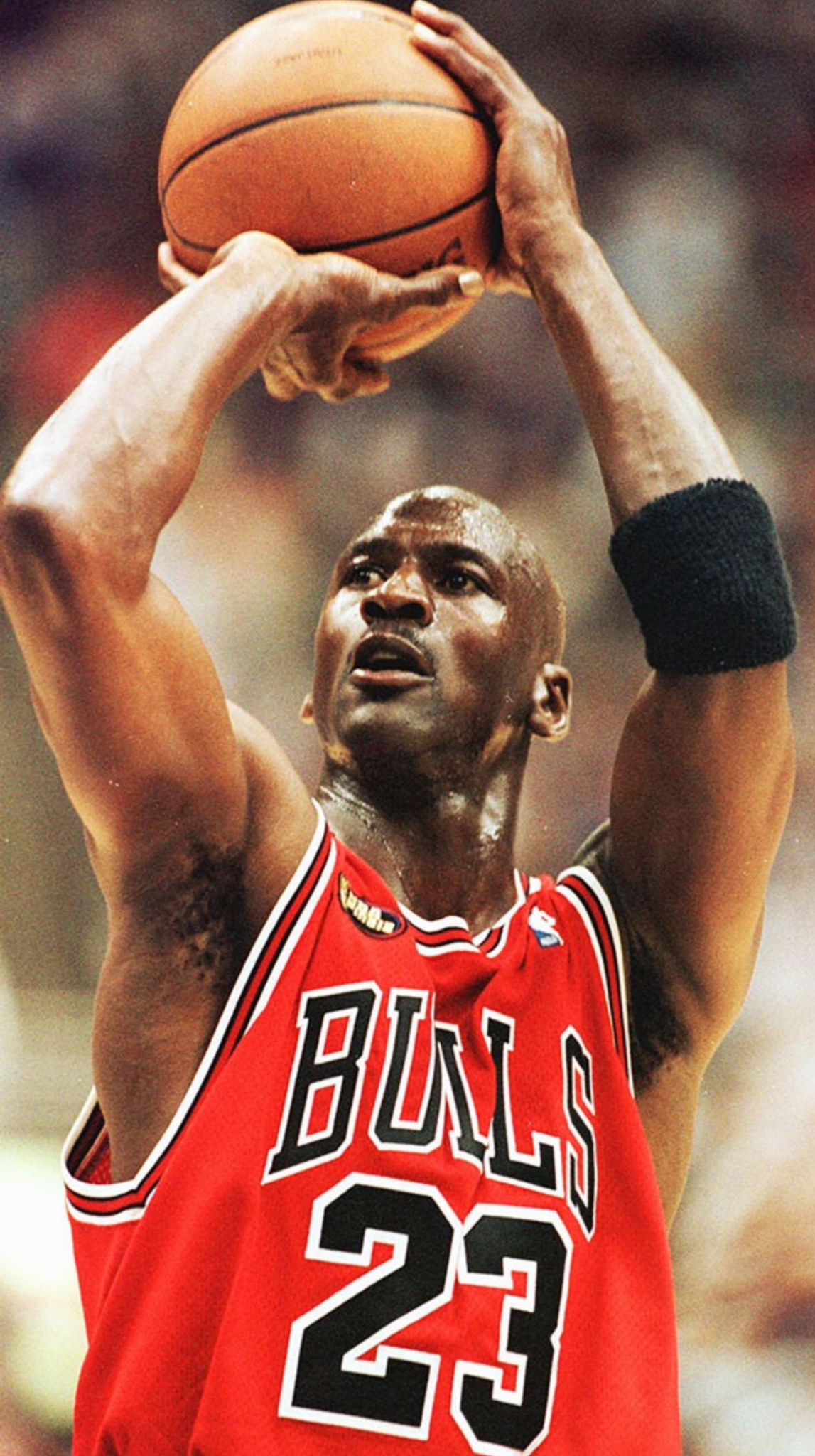
**MVP**



MOST VALUABLE  
PLAYER?

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**MINIMAL VIABLE  
PRODUCT**



FOCUS ON

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**PRODUCT  
VISION**

## PRODUCT VISION

- ▶ PREVIEW ENVIRONMENT
- ▶ SAME AS A LIVE ENVIRONMENT
- ▶ LOOK INTO THE FUTURE
- ▶ SNAPSHOT BACK IN TIME
- ▶ PUBLISH ANY KIND OF ASSET
- ▶ PUBLISH IT AT ANY TIME POSSIBLE



PROVE THE

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**ROI**



## HOW?

- ▶ Statistics of the past years:
  - ▶ frequency of changes;
  - ▶ content error occurrences;
  - ▶ Time spent on typos;
- ▶ AS IS versus TO BE.
- ▶ Business insights.



RESULT

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**BIGGER BUDGET**

## AS IS - MANUAL INPUT ON 2 WEBSITES

- ▶ 10K page changes/year
- ▶ Avg. 5min. per page change
- ▶ Manual input on preview and live website
- ▶  $10K \times 5min. \times 2 \text{ environments} = 100.000 \text{ min./year} = 70 \text{ MD/year}$
- ▶ Daily rate webmaster of € 350,00
- ▶ € 25K per year = € 75K per 3 years

## TO BE - MANUAL INPUT ON 1 WEBSITES

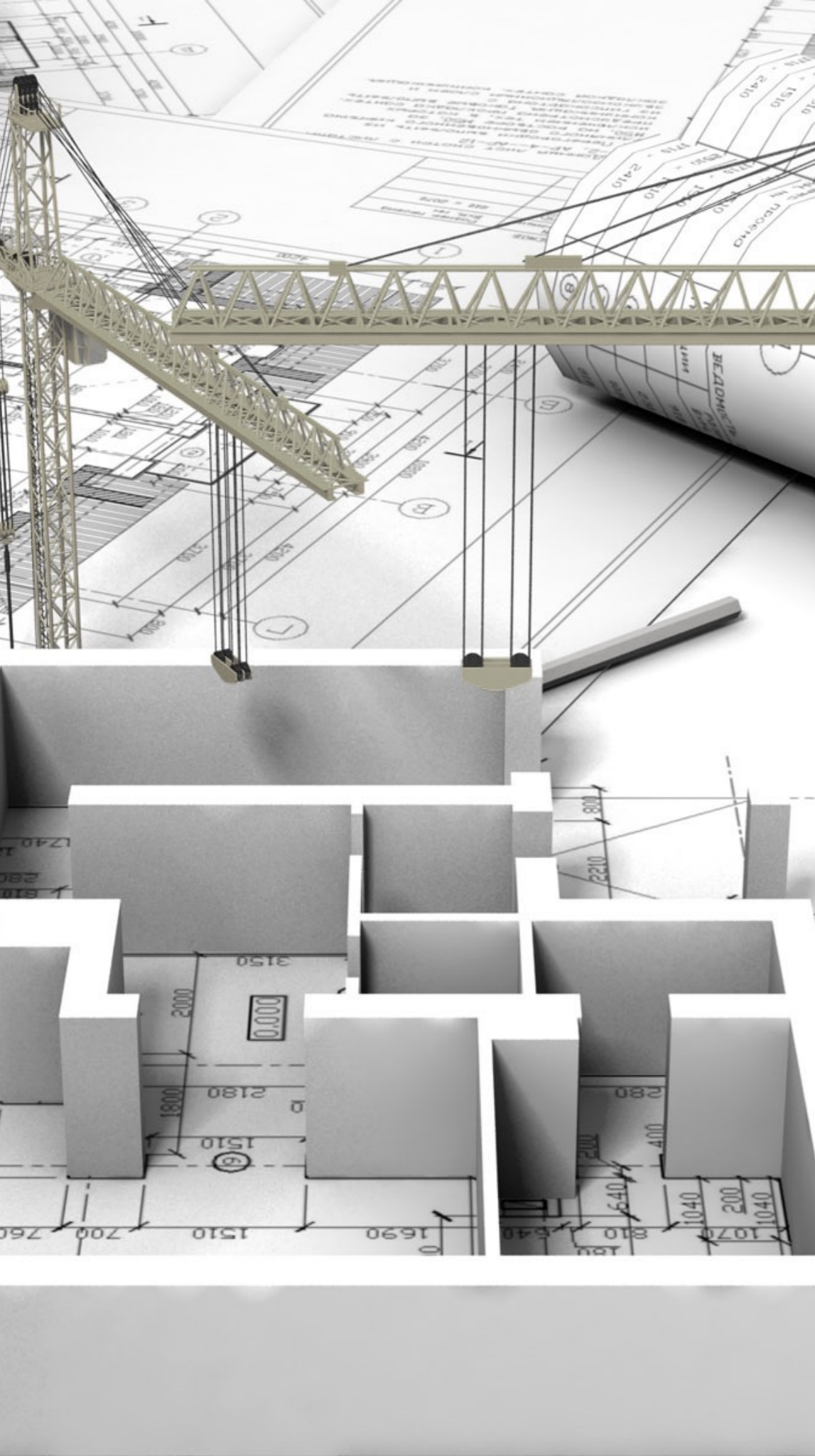
- ▶ 10K page changes/year
- ▶ Avg. 5min. per page change
- ▶ Manual input only on preview
- ▶  $10K \times 5\text{min.} \times \underline{1 \text{ environment}} = 50.000 \text{ min./year} = 35 \text{ MD/year}$
- ▶ Daily rate webmaster of € 350,00
- ▶ € 12,5K per year = € 37,5K per 3 years
- ▶ Cost decrease of € 37,5K



TIME TO

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**TAKE ACTION**



FIRST

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**ARCHITECTURE**

Only internally accessible



### STAGING SITE - SOURCE SERVER

MySQL

Modules

- Plan
- Services
- Authoring roles & users

SOLR

/ Rest  
 / Basic Authentication  
 / Provide Stage Service to Pull Plan Content  
 / Provide Stage Service to Update Plan Status

Content Management    Administer plan(s)

Add content to a plan

Update plan status > Finished

Get entity data by UUID

sites/default/files/\*

Update plan status > Executing

Plan data available? Yes = Send plans/uuid's

/service/stage/plans/update

/service/stage/data

/service/stage/plans/update

/service/stage/plans

Externally accessible



### LIVE SITE - DESTINATION SERVER

MySQL

Modules

- Process
- Services
- Authoring roles & users

SOLR

/ Rest  
 / Basic authentication  
 / Call Service to Pull Plan Content & to process  
 / Call Service to Update Plan Status

Finish Plan processing

Process data per UUID

- Process entity
- Process metadata
- Pull files (pdf, doc, jpg, ...)

Start Plan processing

Get Plan data

WAF

http://www.colruyt.be



XPS Cycle

## CONTENT STAGING WEBSITE

- ▶ Origin of all contents & assets.
- ▶ Administrative website.
- ▶ Exact same functionalities as live website.
- ▶ Provide services to fetch content & assets.
- ▶ Roles & user management.



## CONTENT LIVE WEBSITE

- ▶ Fetches content from staging.
- ▶ Non-administrative website.
- ▶ Exact same functionalities as staging website.
- ▶ No roles & users.

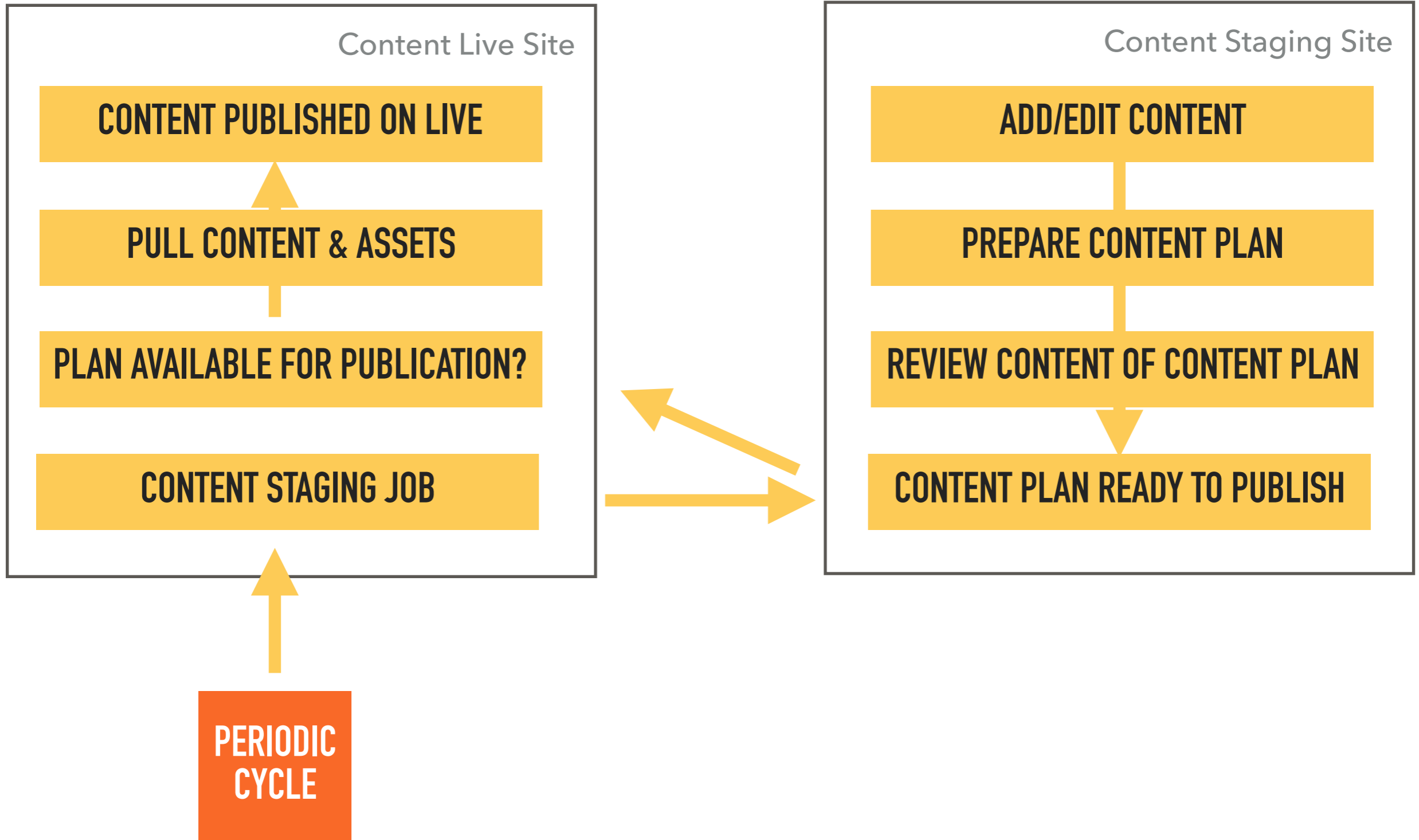


SECOND

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**FUNCTIONAL**

# HOW CONTENT & ASSETS MOVE



## WHAT IS MOVED?

- ▶ Pages
- ▶ Products
- ▶ Banners
- ▶ Images
- ▶ Files
- ▶ Menu items
- ▶ Translation
- ▶ Metadata
- ▶ ...

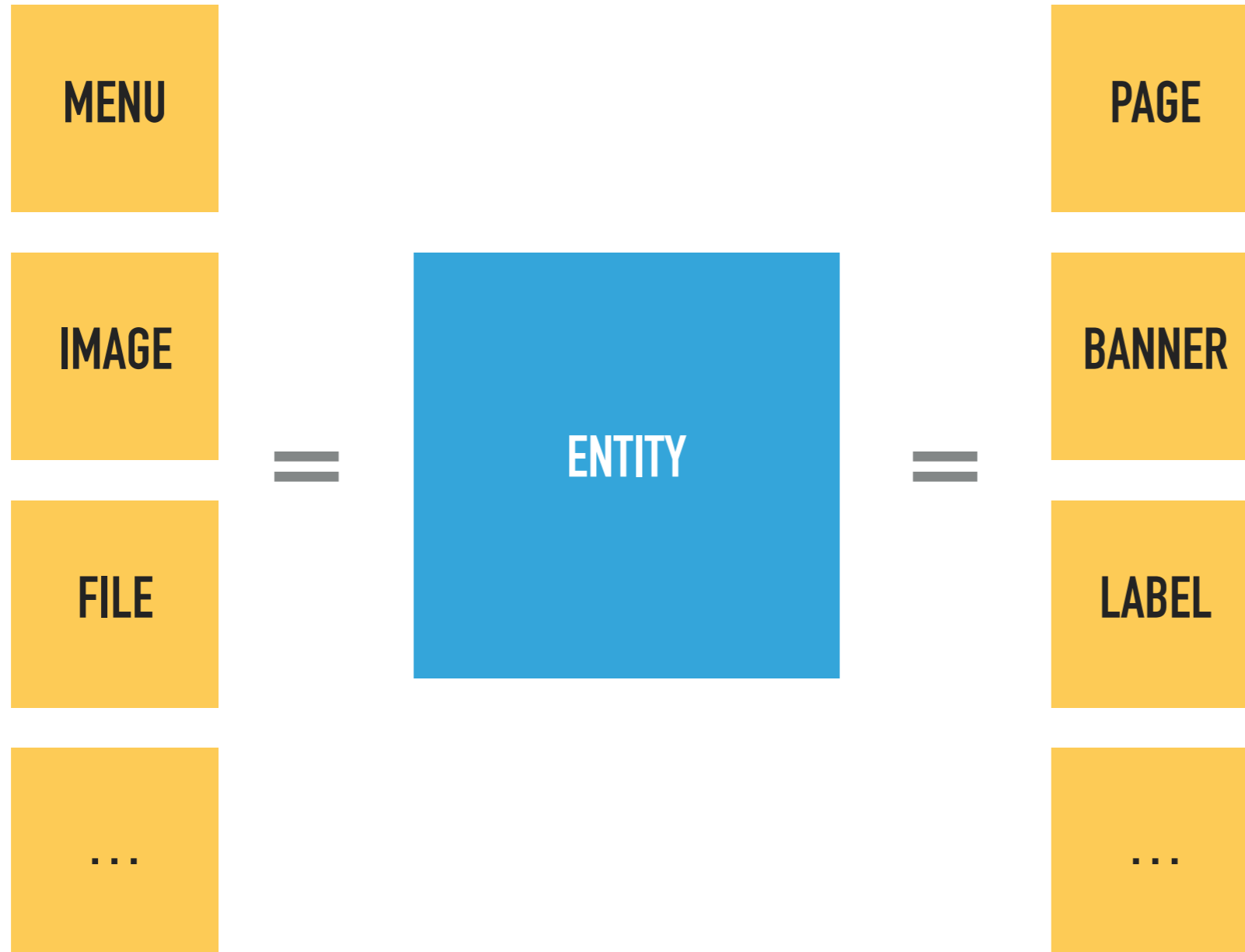


THIRD

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**TECHNOLOGY**

# ENTITY ALL THE THINGS



# WHICH DRUPAL?



## Drupal 7



## Drupal 8



# YOU IT? I MEAN THE UUID!





**FACT**

LAST

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**FACTS**

## USAGE STATISTICS

- ▶ colruyt.be
- ▶ +/- 1500 plans/year
- ▶ +/- 9500 page changes/year
- ▶ webmasters, business reviewers



CREDITS

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**GO TO**

## THE COLRUYT GROUP MEMBERS

- ▶ Jeroen Goossens (jeroen\_005) - Drupal back-end development
- ▶ Bert De Lafonteyne (bertdlf) - Drupal back-end development
- ▶ Tom Behets (betz) - Drupal back-end development
- ▶ Nico Knaepen (nico.knaepen) - ROI / Architecture / Drupal back-end development
- ▶ Business team & webmasters of [colruyt.be](http://colruyt.be) - Requirements / Challenges
- ▶ CCX at [colruytgroup.com](http://colruytgroup.com) - Budget



ANY QUESTIONS?

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[@NICOKNAEPEN](#)



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