



**NEW ORLEANS**  
DRUPALCON 2016

The logo for New Orleans DrupalCon 2016 is a purple, ornate banner with a crown-like top. It features the text "NEW ORLEANS" in a stylized, white, serif font, with "DRUPALCON 2016" in a smaller, white, sans-serif font below it. The background of the slide is a black and white photograph of the New Orleans skyline, including the Mississippi River, a large barge, and various city buildings. A large, faint watermark of the University of New Orleans seal is visible in the background.

NEW ORLEANS  
DRUPALCON 2016

A decorative white flourish consisting of three symmetrical, swirling lines.

# Drupal 8's multilingual APIs

A solid olive-green rectangular box containing the author's name.

Gábor Hojtsy

G#bor

**G#bor Hojtsy**

G#bor Hojtsy

Acquia

Home ›

# GÁBOR HOJTSY

**View**

Edit

My Schedule

My Sess

## GÁBOR HOJTSY

ACQUIA

DRUPAL DEVELOPER

Gábor is an open source enthusiast and contributor, a developer, working with and on the open source project. He started off contributing to Open Source in 2000 when he joined the Acquia team and became the lead to that team. He is a senior PHP developer and

11:45AM - 1:00PM



**LUNCH:** Pick up your

1:00PM - 2:00PM

**MULTILINGUAL DRUPAL 8**

Gıçbor Hojtsy

*Core Conversations*



**BEGINNER**

Gábor Hojtsy, thank you.

Inbox x



Twitter <info@e.twitter.com>  
to gabor

Mar 21 ☆



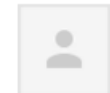
# Thank you!

Ten years ago today, it began with a single Tweet. Since then, every moment of every day, people connect live about the things they care about most — all over the world.

Throughout the years, you've made Twitter what it is today and you're shaping what it will be in the future. And for that, we thank you!

♥, Twitter  
#LOVETWITTER

GÃ¡bor Hojtsy, thank you. Inbox x



GÃ¡bor Hojtsy, thank you.



**Twitter** <info@e.twitter.com>

to gabor



-enzo- 1ethylorest 5ven 12345678912345678 a.ross a1russell aaronaverill aaronott ACF achton aacrollet adam7 Adam Clarey adci\_contributor AdrianB afeijo agentrickard agrozyme Aimee Degnan ainigma32 aitiba ajeverson AjitS akahn akejoha akoe akozma akshay.swnt22 Alan D. Alan Evans alansaviolobo alarcombe alberto56 Albert Volkman alduya alerque alexanderpas alexh58 alexkb **alexpott** Alex UA alexweber alex\_b Alice Heaton alimac alippai almaudoh aloyr Alumei alvar0hurtad0 alweb amateescu ameenkhan07 amitaibu amitgoyal amontero amourow anarcat anavarre ancamp andrei.dincu andrejsmuzikovs andremolnar Andrew Schulman andyceo andymartha **andypost** andythomnz aneek ankitgarg annikaC anrikun Antti J. Salminen Anushka-mp Anybody ardas areke arianeek aries arkestra arlinsandbulte Aron Novak aroq arpitrs ars- Arskiainen artem.ua Artusamak arunaseva asb aschiwi AshishK-dupe ashutoshsngh ashwinikumar askibinski aspilicious **attiks** attila.fekete aturetta August1914 Aunion axe312 axel.rutz ayelet\_Cr a\_thakur a\_webb b0unty babasse05 babruix badrange balagan balintcsaba balintk BalrajB bannorb banviktor BarisW barraponto basvanderveen batigolix bbinkovitz bechtold **beejeebus** bendev benjif benjifisher benjy BenK bensemme **Berdir** beretta627 BeyersdorferTJ bforchhammer bfroehle biro.botond bisonbleu bjaspan blackdog bleen18 blueminds BMDan Bodo Maass bojanz Bojhan Bojhan.core Boobaa bookmarvel boran borisbaldinger boris sondagh **borisson\_** botanic\_spark bowersox boztek **brandon.holtsclaw** brantwynn brianV BrightBold BrockBoland bryancasler bserem bshaffer bsherwood Buratino42 bwinett Bès c-c-m c4doug c31ck c960657 CaDyMaN caktux calliandra cam8001 Carl Johan carsonevans Carsten Müller carwin casey **catch** cbiggins cburschka ceardach cesarmiquel cha0s chakrapani Charles Belov charmi cheops90 chr.fritsch chrisbloomfield chrischinchilla Chris Dart chrishks chrisjlee Chris Luckhardt chrispomeroxy ChristianAdamski Christopher James Francis Rodgers **chx cilefen** cirage cjoy CKoch clashar claudinec Claudis claudiu.cristea clemens.tolboom CMS Dude codemonkie codexmas Cogax colan colbol cordoval corvus\_ch cosmicdreams Cottser Countzero cpelham cpj craychee **Crell** crispiatico crotown crowdcg csakiistvan csc4 csg cshuangtw cspitzlay cs\_shadow cweagans cwells cwgordon7 Cyberschorsch Cyberwolf Cyclodex czigor dado Daemon\_Byte daffie dagmar dagmita dags damiankloip DamienMcKenna Damien Tournoud danielnolde Daniel\_Rose danigrll danillonunes DanPir danylevskyi das-peter **dasjo** dasrecht Dave.Ingram Dave Cohen Dave Reid david.lukac davidhernandez David Hernández David Latapie David Lesieur David Strauss david\_garcia David\_Rothstein **dawehner** dboulet dcam dclavain dcmistry dcmouyard dcrocks dddave **deepakaryan1988** delmarr DeNelo denjell derek.deraps derEremit dermario desbeers develCuy deveshpal Devin Carlson devuo Dhorkiy DickJohnson diego21 dileepmaurya dimaro dinarcon diqidoq disasm dixon\_ djdevin DjebbZ djevans dlu dman Dmitriy.trt DmitryDrozdik dobrzyns docker dodorama dokumori Dom. donquixote douggreen dpearcefl dpi Dragan Eror drewish Dries drifter dropcube dropfen droplet drubage drunken monkey drupalninja99 drupleg dsnopek D Szkiba dtarc DuaelFr dudycz duellj durifal Dustin@PI dutchyoda DuttonMa dvinegla dww dysrama Désiré e0ipso e2thex earnie eaton ebeyrent ebrowet Ec1ipsis echoz EclipseGc edmoran edrupal **edurenye** edward\_or **effulgentsia** eftimitac ehegedus eigentor **eiriksm** ekes el7cosmos elachlan elcuco eleisoncruz elfur Eli-T Elijah Lynn emanuelrighetto emarchak emma.maria eojthebrave epari.siva er.pushpinderrana ericduran ericski Eric\_A ershov.andrey esbenvb eshta estoyausente eugenesia eule EvanDonovan Everett Zufelt evolvingweb ezeedub ezra-g **Fabianx** fabpot fabsor facine **fago** fakingfantastic falcon03 Fannon fastangel fenda fgm Fidelix fietserwin filijonka FiNeX fjd Fleshgrinder floretan FMB fmizzell foopang FrancescoQ Frando Frank Ralf fran seva franskuipers franz Freso fubhy fureigh fwalch g3r4 gabriel.achille Gabriel Radic Gaelan gaele gagarine garphy Garrett Albright gaspaio gaurav.goyal gaurav26570 gauravjeet gauravkhambhala gausarts gbentley geerlingguy geertvd generalredneck geoffreyr george.echim Georgii Gerhard Killesreiter giorgio79 GiorgosK gloob gnindl gnuget gobilo gobinathm good\_man **googletorp** goudal gpapadongonas Grayside greenc greenSkin greg.1.anderson Greg Boggs greggles Greg Sims grisendo guillaumev gumanist gusgsm1 guygg guy\_schneerson gvso gyuhyon h3rj4n Hadi Farnoud hairqls Hanno hansfn haripalrao harrrrrrr harry99 hass hatcat Haza hbblogger hchonov heather **heddn** hefox Heine hejzee helenkim hellolindsay henribergius herom herved heyrocker hinikato HnLn holist holly.ross.drupal holtzermann17 hpz hron84 hswong3i hudo hussainweb Hydra iamEAP ianthomas\_uk ibullock IceCreamYou2 icseh. idebr idflood ifrik ifux Ignacio Sánchez iliphil iMiksu indytechcook InternetDevels intuited inwebsolutions IshaDakota itarato ivanchaer ivanjaros Ivan Zugec izmeez izus j.somers j0rd Jacine jackhutton JacobSanford jagalbraith Jaimeguzman jair Jake081 Jalandhar jamesharv jamesliu78 jamiehollern jamiezeidler janoka janusman japicoder Jaredsmith javisr jayboodhun JayMN Jaypan Jaza jbrown jcisio jcnventura jdanthinne jeanfei Jeff Burnz Jeffrey C. jefkin Jelle\_S jeni\_dc jenlampton jepSter jerdavis jerdnas Jeroen JeroenT jesperjb jessebeach jessehs jgSnell **jhodgdon** jiberan jimyhuang JirkaRybka jiv\_e jicarrion jlbellido jlscott jmauro8ac jmesam jmmarquez jmolivas jnicola joachim joates Jody Lynn joelpittet joewatkins joginderpc johanv JohnAlbin John Bickar johnheaven johnish johnv jojonmaster JonMcL Jon Pugh joris.verschueren **JosephDpurcell** **Jose Reyero** joshi.rohit100 joshtaylor joshua.boltz JoshuaRogers jpd4nt jrglasgow jsbalsera jstoller jthorson juankvillegas jucallme juhovh JuliaKM julien JulienD junedkazi **JvE** jvieille jvns jwilson3 k4v kalabro kalman.hosszu karengreen KarenS Karmen Kartagis katbailey kathyh kattedkrab kbasarab kbentham KCarlile kcouch keith.smith keopx kerby70 kerrymick kevee Kevin Morse keyral kfritsche kgoel kholloway kid\_icarus kika kiliweb killerpoke killes@www.drop.org killua99 kim.pepper Kiphaas7 kiwad klausi klonos kmharrell knalstaaf kompressaur Konstantin Komelin KRaisor kreatiL KrisBulman Kristen Pol kristiaanvandeneynde kristink2 krlucas kscheirer ksenzee kurt.iverson lahoosascoots lambic langworthy lanthaler larowlan LarsKramer larsmw Lars Toomre LAsan laura.johnson **lauriii** lazysoundsystem LeeHunter leenwebb leetozu Leeteq legaudinier legolasbo **Leksat** Lendude leonrenkema leschekfm Les Lim Letharion LewisNyman lhangea Liam McDermott Liam Morland **likin** lilou linclark LinL liquidcms lisarex LittleViking litwol lixiphp lmeurs loganfsmyth



keopx kerby70 kerrymick kevee Kevin Morse keyral kfritsche kgoel kholloway kid\_icarus kika kiliweb killerpoke killes@www.drop.org killua99 kim.pepper Kiphaas7 kiwad klaus klonos kmharrell knalstaaf kompressaur Konstantin Komelin KRaisor kreatIL KrisBulman Kristen Pol kristiaanvandeneynde kristink2 krlucas kscheirer ksenzee kurt.iverson lahoosascoots lambic langworthy lanthaler larowlan LarsKramer larsmw Lars Toomre LAsan laura.johnson **lauriii** lazysoundsystem LeeHunter leenwebb leeotzu Leeteq legaudinier legolasbo **Leksat** Lendude leonrenkema leschekfm Les Lim Letharion LewisNyman lhangea Liam McDermott Liam Morland **likin** lilou linclark LinL liquidcms lisarex LittleViking litwol lixiphp lmeurs loganfsmyth **lokapujya** lokeoke LoMo lonelyrobot longwave lostkangaroo lotyrin LoveCharge lpalgarvio lslinnet lsmith77 lucascaro lucaschain luismagr Lukas von Blarer lund.mikkel Luxian lvbeck lydie m1r1k maciej.zgadzaj MacMladen Mac\_Weber maggo magico maijs Malerio Manjit.Singh manningpete MantasK manu4543 Manuel Garcia marcel66 Marc Hannaford marcingy marco marcoscano marcus7777 marcushenningsen marcusx marcvangend marfillaster mariancalinro mark.labrecque markcarver markie MarkusDBX markus\_petrux **Mark\_L6n** marthina martin107 Martin Mayer martin\_q maryedith mas0h mashermike matason MathieuSpil **matsbla** matt2000 MattDanger mattyounng matulis Maune mauzeh mavimo maxchock **maxocub** maxterner23 maxtorete **mbrett5062** mbyrnes mcarbne mcrittenden mdrummond mducharme MegaChriz memoo merlinofchaos mesr01 meyertox mfb **mgifford** mglaman mgriego mhagedon MHLut MichaelCole michaelfavia michaellenahan michaelmol **Michelle** michlis micnap mikemiles86 mikeryan mikewink mikey\_p mikispeed mikl Mile23 minff mioan Mirabuck mirocow miro\_dietiker mitchell mitokens mitron mitrpaka mitsuroseba Mixologic mjohnq3 mjreich mkalkbrenner mkapst mlecha mlehner616 mlncn mmatsoo mmilano moe4715 mondrake mon\_franco mooffie mortendk moshe weitzman mparker17 **mpdonadio** mpg mr.baileys mr.york mradcliffe mrded mrf MrHaroldA mrjmd mrP mrsinguyen msonnabaum mstrelan mtift mtomaizy mustafau MustangGB mvc my-family myforgedoteu n3or nadavoid nagwani NancyDru natuk naught101 naveenvalecha naveko NaX naxoc nbz neclimdul nedjo neetu morwani nerdoc nerdstein nevergone nevets ngoocketit nicholosophy nick\_schuch Nick\_vh nicu nicxvan nikhilasrani nikhilsukul nikkubhai Niklas Fiekas niko- NITEMAN Nitesh Sethia nkschaefer **nligo** nod\_ Noe\_ Nomes NonProfit nonsie NotNotCow no\_angel no\_commit\_credit no\_longer\_active\_13 nvinayvinay nyirocsaba nyleve101 oadaeh oheller olli omar omercioglu omers OnkelTem opi oresh oriol\_e9g orlitzky oussema Outi Owen Barton pameeela Pancho Paracetamol parasite ParisLiakos parthipanramesh Pasqualle patrickd Patrick Storey paularmand Paul Broon paulmckibben pbland pbuyle pcambra pdenooijer pdrake Pedro Lozano pedrop pefferen **penyaskito** pepperstreet Pere Orga perusio peximo pflame **pfrenssen** pguillard phiit philbar philipnorton42 philipz phillamb168 PieterJanPut pillarsdotnet pingers Pinolo pixelite pixelwhip piyuesh23 pjbaert pjonckiere pkiraly **plach** Plascual plopesc pmackay pmelab podarok Pol pounard pp pplantinga PrabhuG prajaankit Prashant.c prashantgoel prateek479 pratik60 prikkprikkprikk prodosh psynaptic purabkharat pwieck **pwolanin** qgil quicksketch quietone rachel\_norfolk RachFrieer rachit\_gupta rahul.shinde rahuldolas123 RajeevK Rajesh Ashok rajneeshb rak2008 rameshbabu.g ramlev Ranko rasskull ravi.khetri RavindraSingh rbayliss rbmboogie rbosscher rbunch rdickert rdrh555 realityloop redndahead reglogge renat rfay rhabbachi ricardoamaro rickmanelius rickvug rkjha **rkoller** rli rlmumford **robertdbailey** robertgarrigos Roberto Gerola Robin Millette Robin Monks RobLoach robmc RobW rocket\_nova roderik rodrigoaguilera RodrigoBalest ronald\_istos rooby RoySegall rpayanm rpsu rszrama rteijeiro rudiedirkx rudivanes rupl russo79 rvilar rwt ry5n ryanissamson Ryan Weal rych sahain saki007ster salvis Sam152 sandipmkhairnar sandykadam Saphyel saravananr971 sardara sasanikolic sasha.ua savithac Sborsody Schnitzel scor scottalan sdboyer sdelbosc SeanBannister SeanKelly SebCorbin sebi segi seiplax Sephi77 seranooo5 sergeypavlenko Sethie sethiele seutje sfyn Shai shanethehat **Sharique** Shellingfox shenzhuxi shixish shnark shuklasp Shyamala sidharrell sidharthap sihv SiliconMind Sill silverdog silverwing simolokid Simon Georges sinasalek sir\_squall skippednote skipyTskwashd skyredwang slashrsm slowflyer smiletrl smithworx smokris snufkin Snugug socketwench soipo Soul88 SoumyaDas sourcesoft spacereactor spearhead93 speely Spleshka Stalski starchild stBorchert **stefan.r** Stefan Freudenberg stefank Stefan Nagtegaal SteffenR steinmb stella stephen.colson stephr Steven Jones stevepurkiss stijndmd stkrzysiak stpaultim StryKaizer StuartJNCC subhojit777 Sumeet.Pareek **SUN** sun.core superspring surandesilva surgeonbor sushantpaste sushilkr sushyl **Sutharsan** svendecabooter svenryen swastik1608 Sweetchuck swentel sxnc Sylvain Lecoy sylvain\_a szato T-lo tammo tarmstrong tatarbj te-brian tedbow tetranz thamas thechanceg thedavidmeister thegreatone thehong thePanz theunraveler the\_phi ThisIsDog thlafon thomas4019 thomastorfs Thomas\_Zahredden ti2m tim-e **tim.plunkett** Tim Bozeman timmillwood timofey tinker tinyrobot tkoleary tky tcloudon tobiasb toemaz tomreavley tomsm TonyScott Tor Arne Thune torpy TR Transition TravisCarden trevjs tsi **tstoeckler** tsvenson tucho twistor TwoD twomasc typhonius Uccio Ujin ultimike underq unstatu **Upchuk** ursula vaartio vacho vaibhavjain valdo valokettu valthebald Vapes vasi1186 vasike vastav vermario **vijaycs85** Vikas Negi virgo virtualstep visabhishek VladSavitsky vlkff vollepeer voxpelli vuzzbox vyasamit2007 vzbk wadmiraal walkah wamilton weakqueen99 **webchick** **webflo** webkenny webmozart webwarrior westie WigglyKoala wilco WilliamB willieseabrook willyk wilsonw **Wim Leers** wjaspers **wmortada** wmostrey wojtha woody WormFood wrg20 wroxbox wusel xaav xadag Xano xecstasyx Xen **xjm** xmacinfo xpound xslim XTCHost yang\_yi\_cn yanniboi yannickoo yannisc yched **YesCT** ygerasimov yhager yohannbzh yoroy ytsurk yukare yurtboy z.stolar zaporylie zealfire ZenDoodles Zerdiox zerodeux zeropx zestagio zetagraph zippydoug zirvap zkday **znerol** Zoltán Balogh zroger zschmid zserno zuuperman \_nolocation

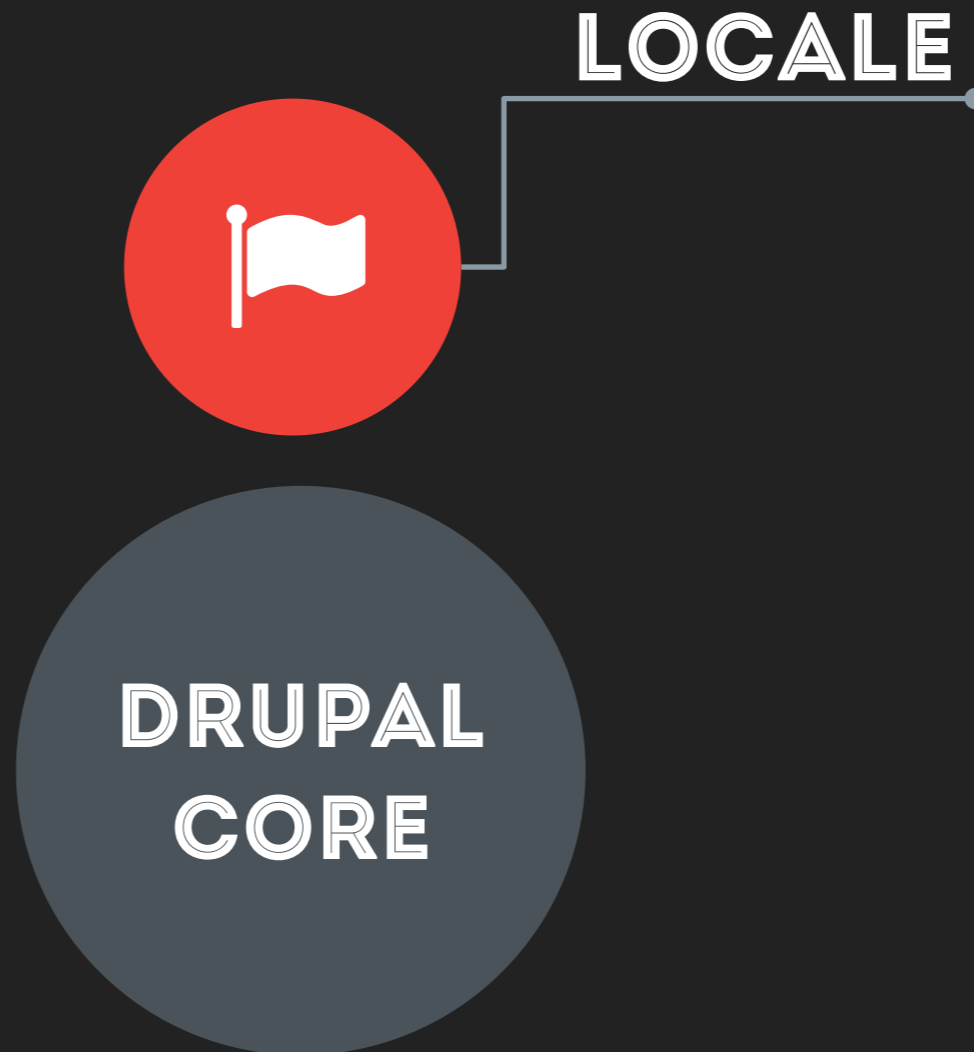
# DRUPAL 7 MULTILINGUAL

# DRUPAL 7 MULTILINGUAL

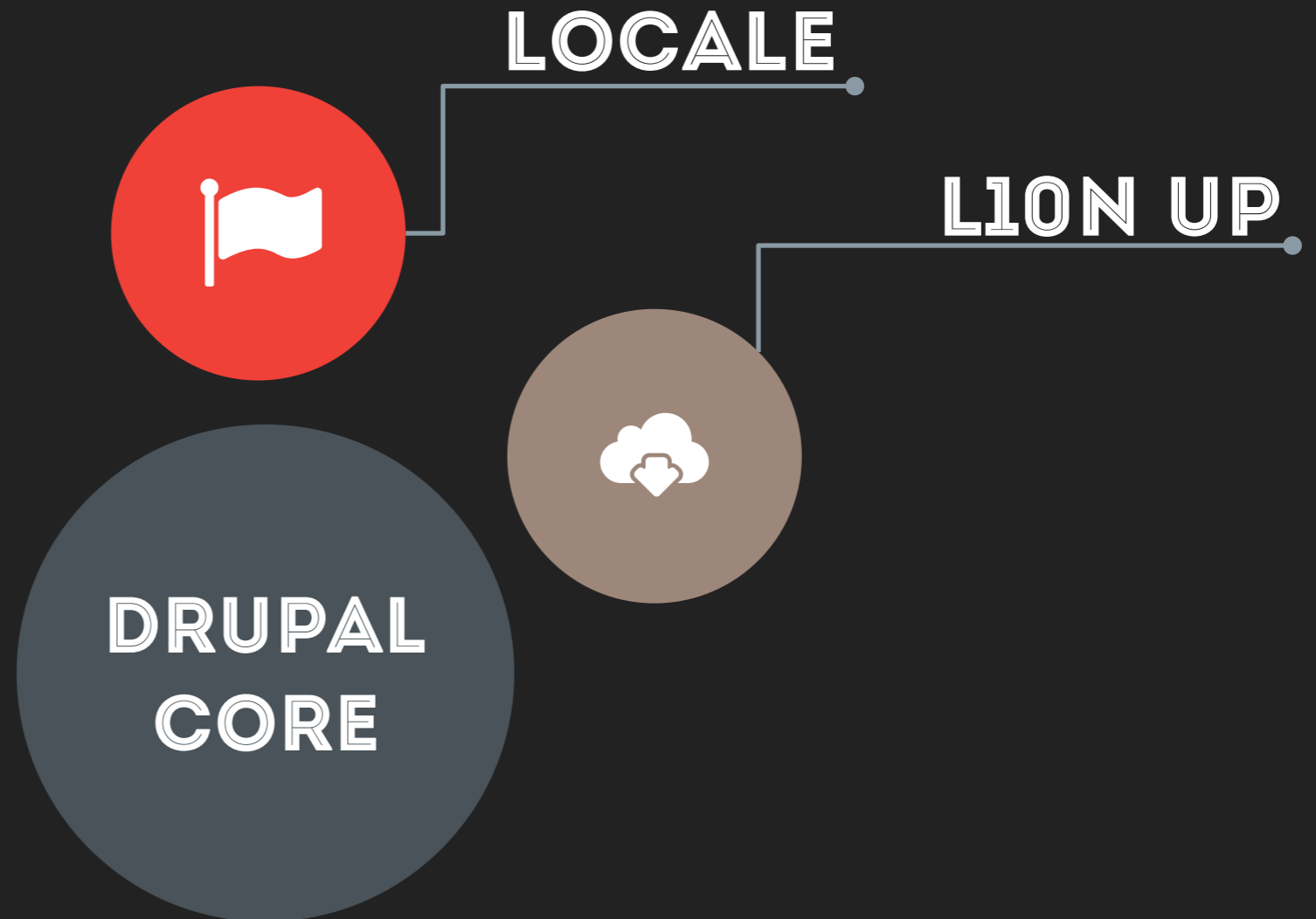


DRUPAL  
CORE

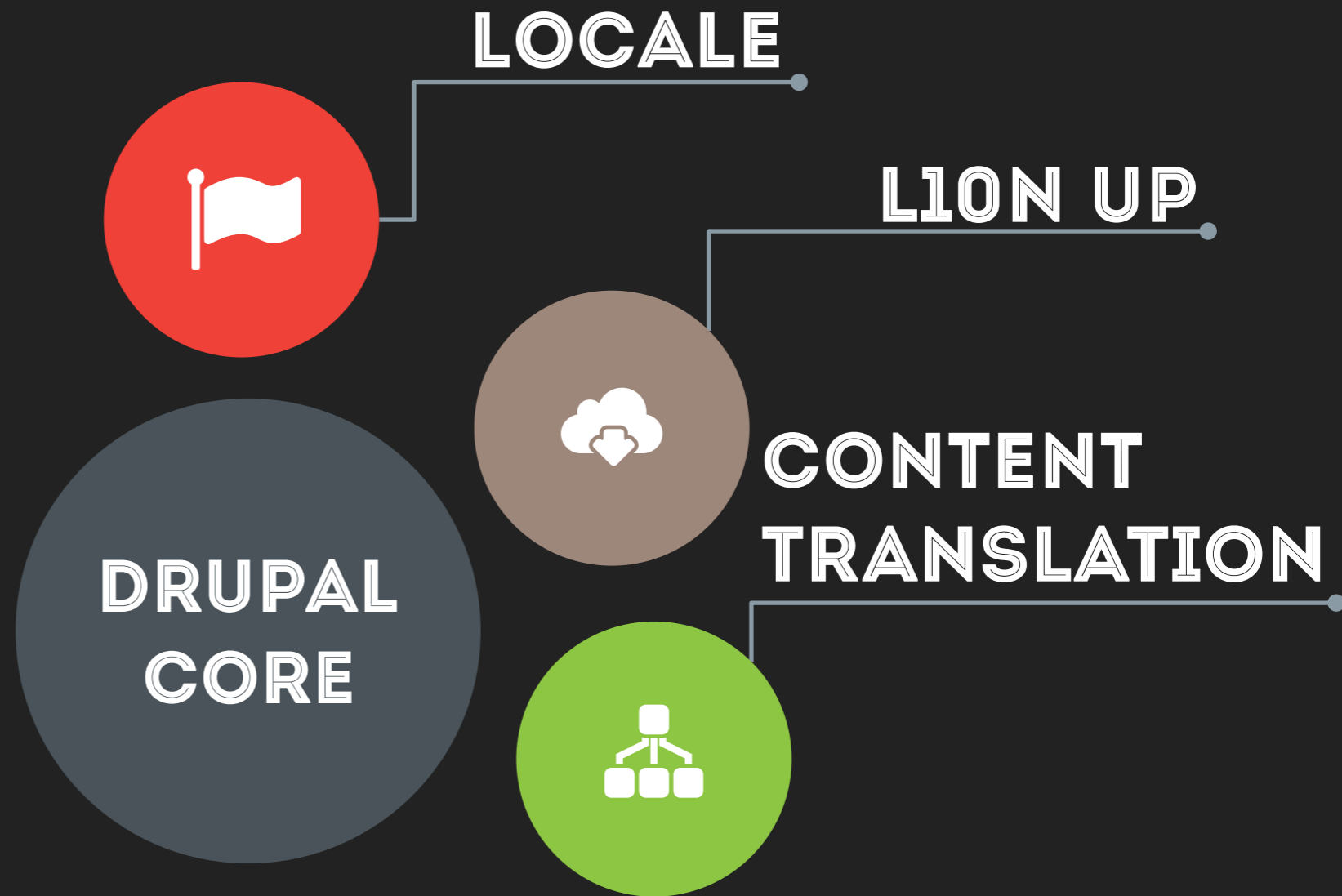
# DRUPAL 7 MULTILINGUAL



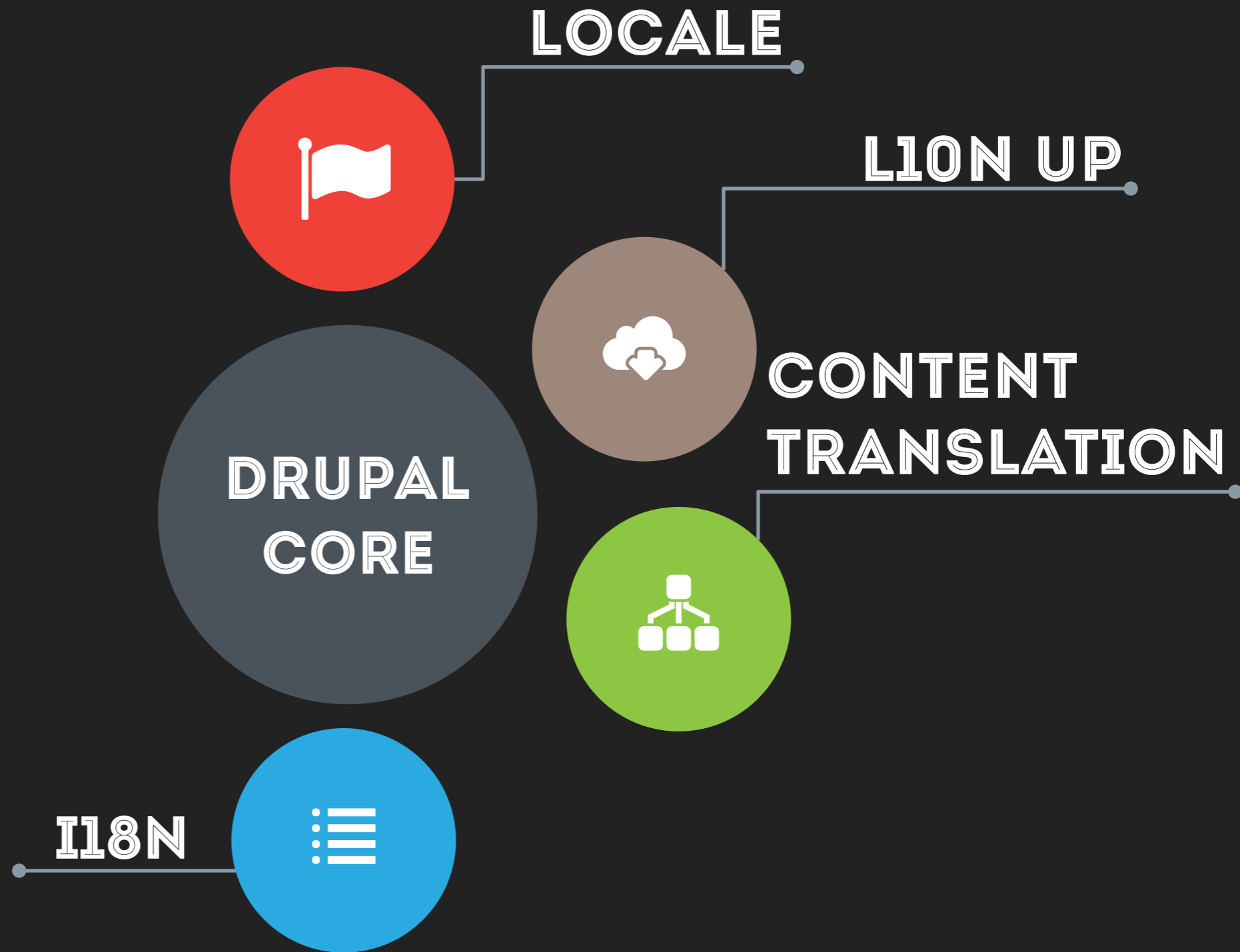
# DRUPAL 7 MULTILINGUAL



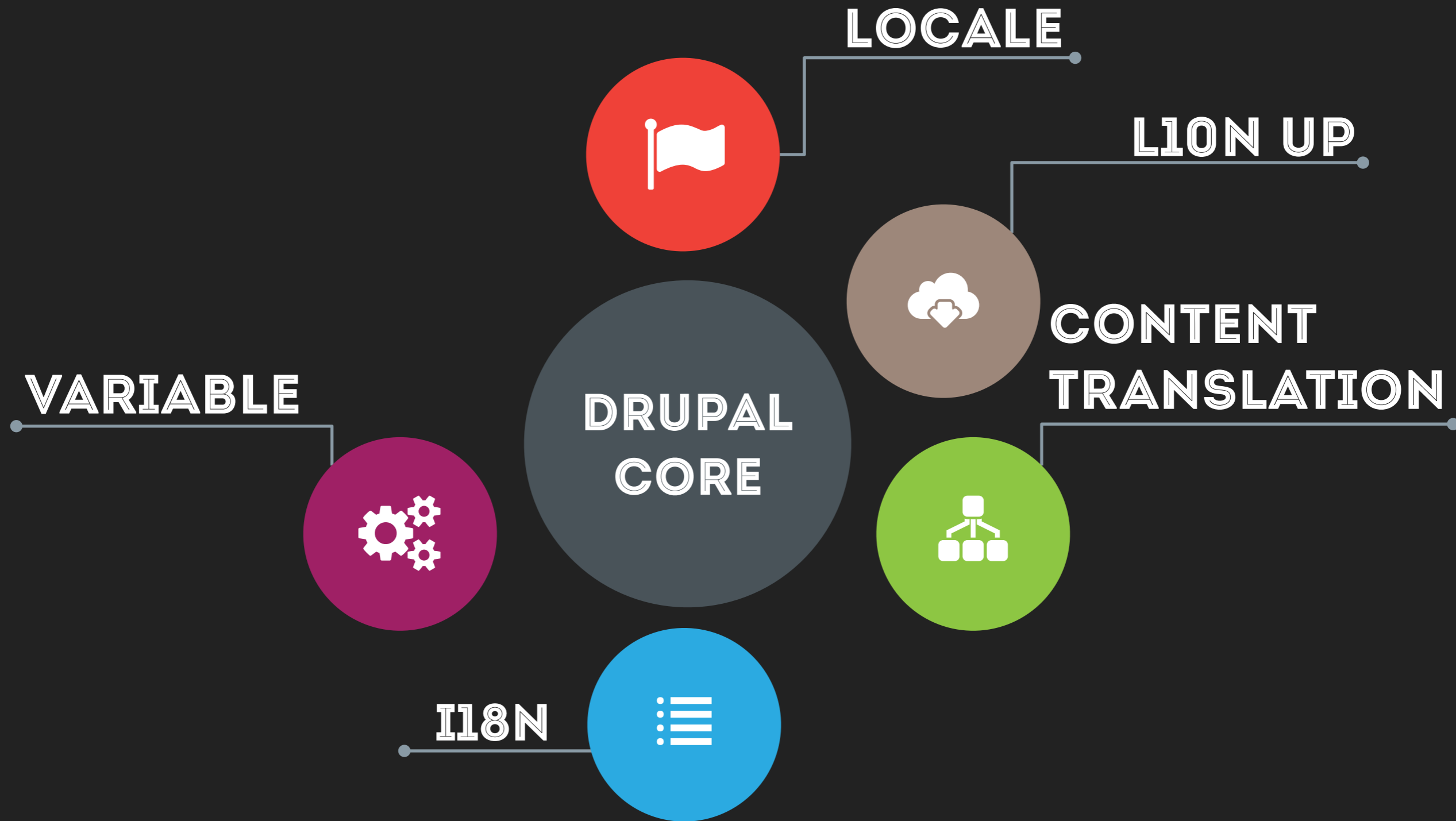
# DRUPAL 7 MULTILINGUAL



# DRUPAL 7 MULTILINGUAL

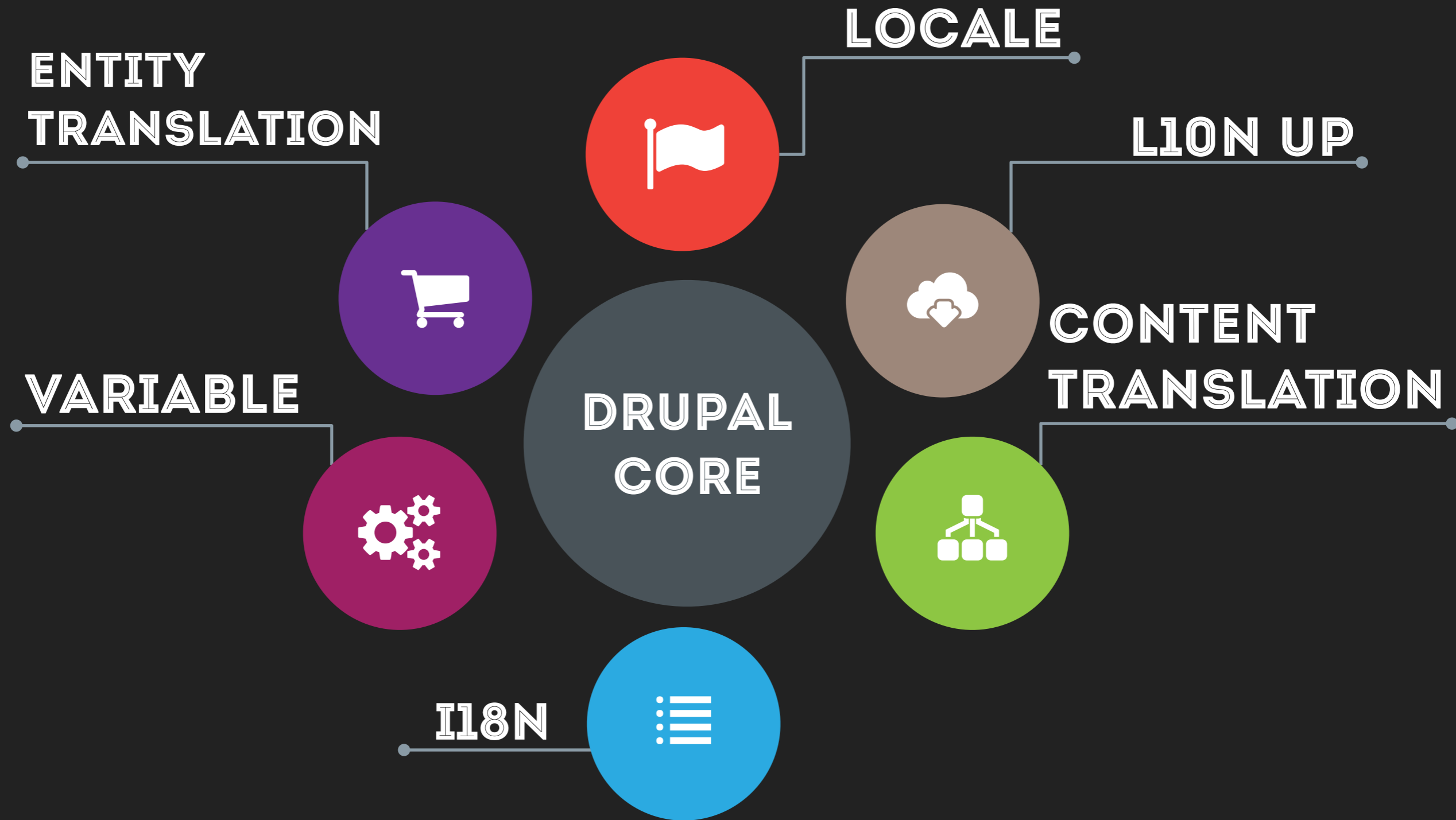


# DRUPAL 7 MULTILINGUAL





# DRUPAL 7 MULTILINGUAL



# FOUR PILLARS IN DRUPAL 8

# FOUR PILLARS IN DRUPAL 8



## LANGUAGE

---

Base services for all modules dealing with data. Not just multilingual.

# FOUR PILLARS IN DRUPAL 8



## LANGUAGE

---

Base services for all modules dealing with data. Not just multilingual.



## INTERFACE

---

Interface translation has built-in update feature, improved usability.

# FOUR PILLARS IN DRUPAL 8



## LANGUAGE

---

Base services for all modules dealing with data. Not just multilingual.



## INTERFACE

---

Interface translation has built-in update feature, improved usability.



## CONTENT

---

Field translation in built-in API for all entities. Content translation module provides user interface.

# FOUR PILLARS IN DRUPAL 8



## LANGUAGE

---

Base services for all modules dealing with data. Not just multilingual.



## INTERFACE

---

Interface translation has built-in update feature, improved usability.



## CONTENT

---

Field translation in built-in API for all entities. Content translation module provides user interface.



## CONFIG

---

Common configuration system handles blocks, views, field settings. Unified translation.

# FOUR PILLARS IN DRUPAL 8



**LANGUAGE**

---



**INTERFACE**

---



**CONTENT**

---



**CONFIG**

---

# DEALING WITH LANGUAGE

LanguageManager



`\Drupal:LanguageManager()`



ConfigurableLanguageManager



# DEALING WITH LANGUAGE

->getLanguages()

UND: NOT SPECIFIED

EN: ENGLISH (DEFAULT)

ZXX: NOT APPLICABLE

# DEALING WITH LANGUAGE

->getLanguages()

UND: NOT SPECIFIED

HU: HUNGARIAN

ZXX: NOT APPLICABLE

IT: ITALIAN

# DEALING WITH LANGUAGE

->getLanguages()

UND: NOT SPECIFIED

HU: HUNGARIAN

ZXX: NOT APPLICABLE

IT: ITALIAN

language.entity.\$langcode.yml

# DEALING WITH LANGUAGE

->getLanguages()

UND: NOT SPECIFIED

HU: HUNGARIAN

ZXX: NOT APPLICABLE

IT: ITALIAN



Locked

language.entity.\$langcode.yml

# DEALING WITH LANGUAGE

->getLanguages()

UND: NOT SPECIFIED

HU: HUNGARIAN

ZXX: NOT APPLICABLE

IT: ITALIAN



Locked

Not locked



language.entity.\$langcode.yml

# DEALING WITH LANGUAGE

```
ConfigurableLanguage::  
createFromLangcode('fr')  
->save()
```

# DEALING WITH LANGUAGE

```
ConfigurableLanguage::  
load('fr')->delete()
```

# DEALING WITH LANGUAGE

```
$languageManager  
->getCurrentLanguage()
```



# FOUR PILLARS IN DRUPAL 8



**LANGUAGE**

---



**INTERFACE**

---



**CONTENT**

---



**CONFIG**

---

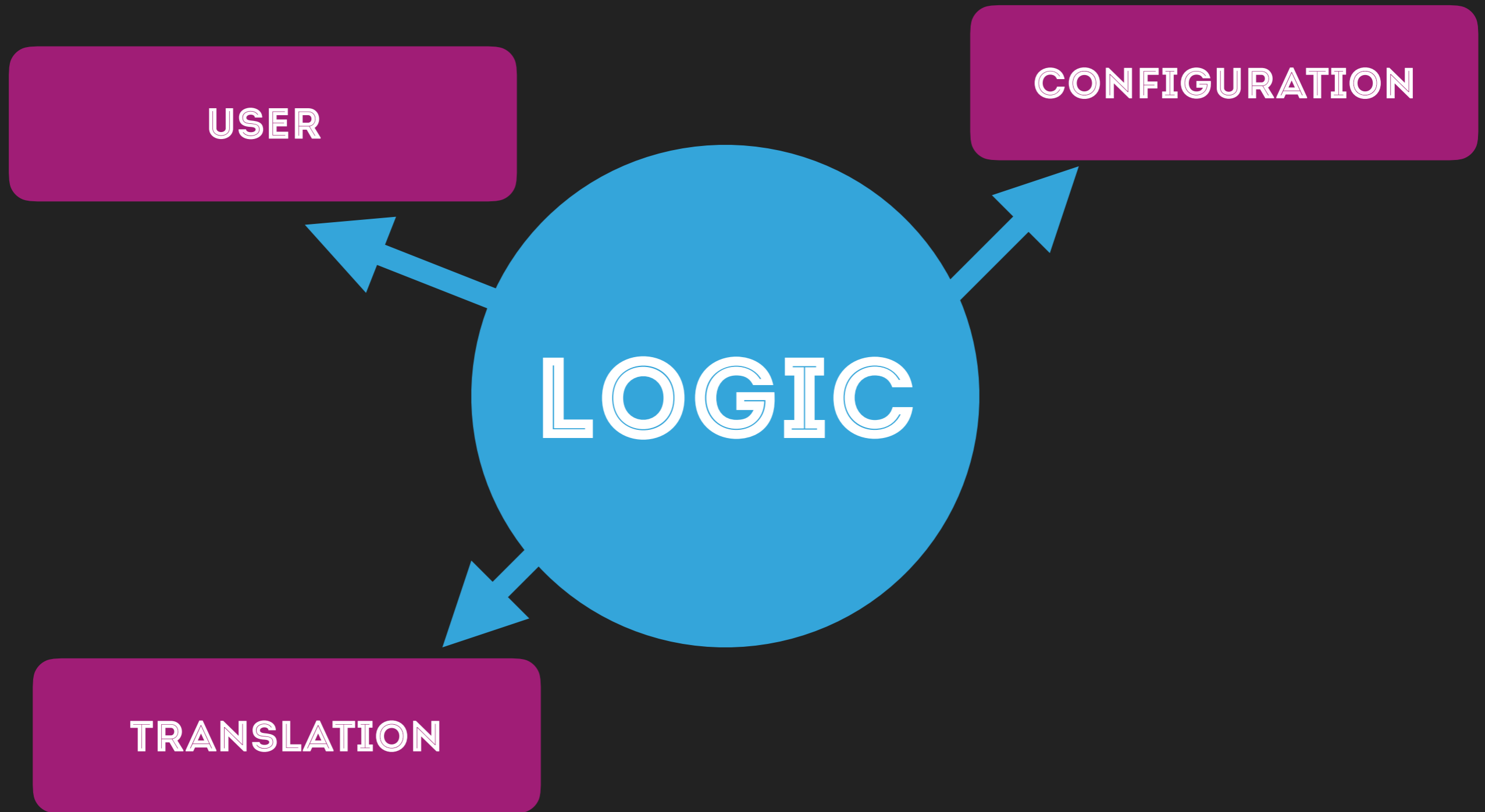
# INTERFACE LANGUAGE

# INTERFACE LANGUAGE

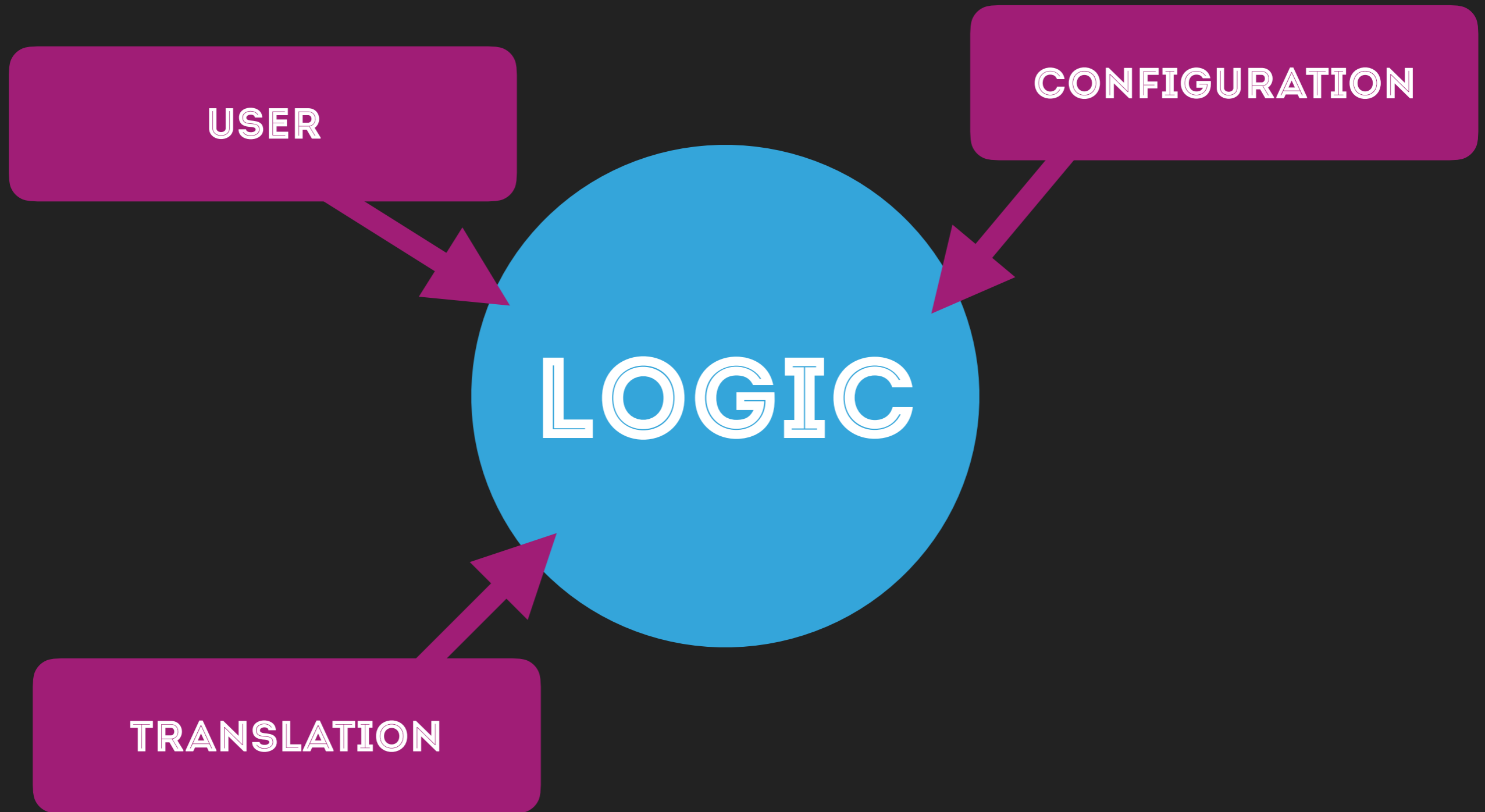
`t('English text')`

# INTERFACE LANGUAGE

# DEPENDENCY INJECTION



# DEPENDENCY INJECTION



# INTERFACE LANGUAGE

~~t('English text')~~

# INTERFACE LANGUAGE

~~t('English text')~~

\$this->t('English text')



# INTERFACE LANGUAGE

```
class Foo {  
    use StringTranslationTrait;  
    ...  
}
```

# INTERFACE LANGUAGE

# INTERFACE LANGUAGE

```
$this->t('English text')  
->getOption('langcode');
```

# INTERFACE LANGUAGE

~~format\_plural(...)~~

\$this->formatPlural(...)

# JAVASCRIPT API

`Drupal.t(...)`

`Drupal.formatPlural()`

# LOCALE.LINKS.MENU.YML

**locale.translate\_page:**

**title:** 'User interface translation'

**description:** 'Configure the import ...'

**route\_name:** locale.translate\_page

**parent:** system.admin\_config\_regional

**weight:** 15

**locale.translate\_status:**

**title:** 'Available translation updates'

**route\_name:** locale.translate\_status

**description:** 'Get a status report ...'

**parent:** system.admin\_reports

# LOCALE.LINKS.MENU.YML

locale.translate\_page:

title: **'User interface translation'** ←

description: **'Configure the import ...'** ←

route\_name: locale.translate\_page

parent: system.admin\_config\_regional

weight: 15

locale.translate\_status:

title: **'Available translation updates'** ←

route\_name: locale.translate\_status

description: **'Get a status report ...'** ←

parent: system.admin\_reports

# FOUR PILLARS IN DRUPAL 8



**LANGUAGE**

---



**INTERFACE**

---

English to X



**CONTENT**

---



**CONFIG**

---



# NODE.PHP (SNIPPET)

```
/**
 * Defines the node entity class.
 *
 * @ContentEntityType(
 *   id = "node",
 *   label = @Translation("Content"),
 *   translatable = TRUE, ←
 *   entity_keys = {
 *     "id" = "nid",
 *     "label" = "title",
 *     "langcode" = "langcode", ←
 *   }
 * )
```

# NODE.PHP (SNIPPET)

```
function baseFieldDefinitions($entity_type) {  
    // ...  
    $fields['title'] =  
BaseFieldDefinition::create('string')  
    ->setLabel(t('Title'))  
    ->setRequired(TRUE)  
    ->setTranslatable(TRUE); ←  
}
```

# FIELDS THEMSELVES

**FIELDS THEMSELVES**

**AUTOMATED!**

# MULTICOLUMN FIELD SNIPPET

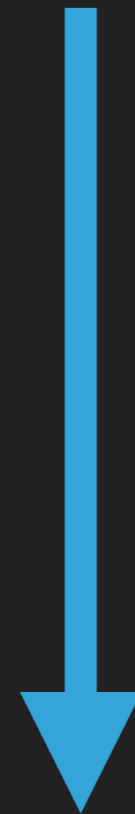
```
* @FieldType(  
*   id = "image",  
*   column_groups = { ←  
*     "file" = {  
*       "label" = @Translation("File"),  
*       "columns" = {  
*         "target_id", "width", "height"  
*       },  
*     },  
*     "alt" = {  
*       "label" = @Translation("Alt"),  
*       "translatable" = TRUE ←  
*     },  
*   }  
* }
```

# ENTITY LANGUAGE API

```
$node = Node::load(42);
```



```
$node = $node  
->getTranslation('hu');
```



```
$node = $entityRepository  
->getTranslationFromContext($node);
```

# ENTITY LANGUAGE API

`$node->getUntranslated()`

`$node->language()`

`$node->getTranslationLanguages()`

`$node->hasTranslation('hu')`

`$node->addTranslation('hu')`

`$node->removeTranslation('hu')`

# VIEWS ALL THE THINGS

**TITLE**  
Title: [None](#)

**FORMAT**  
Format: [Unformatted list](#) | [Settings](#)  
Show: [Content](#) | [Teaser](#)

**FIELDS**  
The selected style or row format does not use fields.

**FILTER CRITERIA** Add ▾

- [Content: Promoted to front page \(Yes\)](#)
- [Content: Publishing status \(Yes\)](#)
- [Content: Translation language \(= Content language selected for page\)](#)

**SORT CRITERIA** Add ▾

- [Content: Sticky at top of lists \(desc\)](#)
- [Content: Authored on \(desc\)](#)

**The query**

**The rendering**

**PAGE SETTINGS**  
Path: [/node](#)  
Menu: [No menu](#)  
Access: [Permission](#) | [View published content](#)

**HEADER** Add

**FOOTER** Add

**NO RESULTS BEHAVIOR** Add ▾

- [Global: Unfiltered text \(Global: Unfiltered text\)](#)
- [Content: Empty Node Frontpage behavior \(Content: Empty Node Frontpage behavior\)](#)
- [Global: Title override \(Global: Title override\)](#)

**PAGER**  
Use pager: [Full](#) | [Paged, 10 items](#)  
More link: [No](#)

**LANGUAGE**  
Rendering Language: [Content language of view row](#)



# FOUR PILLARS IN DRUPAL 8



**LANGUAGE**

---



**INTERFACE**

---

English to X



**CONTENT**

---

X to Y

Intelligent  
objects



**CONFIG**

---

# CONFIG/INSTALL/SYSTEM.MAINTENANCE.YML

```
message: '@site is currently  
under maintenance. We should be  
back shortly. Thank you for your  
patience.'  
langcode: en ←
```

# CORE.DATA\_TYPES.SCHEMA.YML

```
config_object:  
  type: mapping  
  mapping:  
    langcode: ←  
      type: string  
      label: 'Language code'  
    ...
```

```
text:  
  type: string  
  label: 'Text'  
  translatable: true ←
```

# CONFIG/SCHEMA/SYSTEM.SCHEMA.YML

```
system.maintenance:  
  type: config_object  
  label: 'Maintenance mode'  
  mapping:  
    message:  
      type: text  
      label: 'Message to display..'
```



The diagram consists of two blue speech bubbles. The first bubble, located above the 'type: config\_object' line, contains the text 'LANGCODE'. The second bubble, located to the right of the 'type: text' line, contains the text 'TRANSLATABLE STRING'.

# SYSTEM.MAINTENANCE.YML

```
message: '@site is currently  
under maintenance. We should be  
back shortly. Thank you for your  
patience.'  
langcode: en
```

# SYSTEM.MAINTENANCE.YML

```
message: '@site is currently  
under maintenance. We should be  
back shortly. Thank you for your  
patience.'  
langcode: en
```

# LANGUAGES/HU/SYSTEM...YML

# SYSTEM.MAINTENANCE.YML

```
message: '@site is currently  
under maintenance. We should be  
back shortly. Thank you for your  
patience.'  
langcode: en
```

# LANGUAGES/HU/SYSTEM...YML

```
message: '@site karbantartás  
alatt áll...'
```

# SYSTEM.MAINTENANCE.YML

```
message: '@site is currently  
under maintenance. We should be  
back shortly. Thank you for your  
patience.'  
langcode: en
```

# LANGUAGES/HU/SYSTEM...YML

```
message: '@site karbantartás  
alatt áll...'
```

# LANGUAGES/IT/SYSTEM...YML



# SYSTEM.MAINTENANCE.YML

```
message: '@site is currently  
under maintenance. We should be  
back shortly. Thank you for your  
patience.'  
langcode: en
```

# LANGUAGES/HU/SYSTEM...YML

```
message: '@site karbantartás  
alatt áll...'
```

# LANGUAGES/IT/SYSTEM...YML

```
message: '@site ...'
```

# CONFIGURATION API

```
$config =  
\Drupal::config('system.maintenance');  
  
$config->get('message');
```

# CONFIGURATION API



OVERRIDES  
APPLY AS  
APPROPRIATE

```
$config =  
\Drupal::config('system.maintenance');  
  
$config->get('message');
```

# CONFIGURATION API

```
$manager = \Drupal::languageManager();  
$hu = $manager->getLanguage('hu');
```

```
$original = $manager->getConfigOverrideLanguage();  
$manager->setConfigOverrideLanguage($hu);
```

```
$config = \Drupal::config('system.maintenance');  
// ...
```

```
$manager->setConfigOverrideLanguage($original);
```

# CONFIGURATION API

```
\Drupal::config('system.maintenance');
```

OVERRIDES  
APPLY AS  
APPROPRIATE

```
\Drupal::configFactory()-  
>getEditable('system.maintenance');
```

NO OVERRIDES  
APPLY

```
\Drupal::languageManager()  
->getLanguageConfigOverride  
('hu', 'system.maintenance')  
->set('message', 'Karbantartás...')  
->save();
```

THE OVERRIDE  
ITSELF

# FOUR PILLARS IN DRUPAL 8



**LANGUAGE**

---



**INTERFACE**

---

English to X



**CONTENT**

---

X to Y

Intelligent  
objects



**CONFIG**

---

X to Y

Dumb  
arrays

-enzo- 1ethylorest 5ven 12345678912345678 a.ross a1russell aaronaverill aaronott ACF achton aacrollet adam7 Adam Clarey adci\_contributor AdrianB afeijo agentrickard agrozyme Aimee Degnan ainigma32 aitiba ajeverson AjitS akahn akejoha akoe akozma akshay.swnt22 Alan D. Alan Evans alansaviolobo alarcombe alberto56 Albert Volkman alduya alerque alexanderpas alexh58 alexkb **alexpott** Alex UA alexweber alex\_b Alice Heaton alimac alippai almaudoh aloyr Alumei alvar0hurtad0 alweb amateescu ameenkhan07 amitaibu amitgoyal amontero amourow anarcat anavarre ancamp andrei.dincu andrejsmuzikovs andremolnar Andrew Schulman andyceo andymartha **andypost** andythomnz aneek ankitgarg annikaC anrikun Antti J. Salminen Anushka-mp Anybody ardas areke ariane ariane aries arkestra arlinsandbulte Aron Novak aroq arpitr ars- Arskiainen artem.ua Artusamak arunaseva asb aschiwi AshishK-dupe ashutoshsngh ashwinikumar askibinski aspilicious **attiks** attila.fekete aturetta August1914 Aunion axe312 axel.rutz ayelet\_Cr a\_thakur a\_webb b0unty babasse05 babruix badrange balagan balintcsaba balintk BalrajB bannorb banviktor BarisW barraponto basvanderveen batigolix bbinkovitz bechtold **beejeebus** bendev benjf benjifisher benjy BenK bensemme **Berdir** beretta627 BeyersdorferTJ bforchhammer bfroehle biro.botond bisonbleu bjaspan blackdog bleen18 blueminds BMDan Bodo Maass bojanz Bojhan Bojhan.core Boobaa bookmarvel boran borisbaldinger boris sondagh **borisson\_** botanic\_spark bowersox boztek **brandon.holtsclaw** brantwynn brianV BrightBold BrockBoland bryancasler bserem bshaffer bsherwood Buratino42 bwinett Bès c-c-m c4doug c31ck c960657 CaDyMaN caktux calliandra cam8001 Carl Johan carsonevans Carsten Müller carwin casey **catch** cbiggins cburschka ceardach cesarmiquel cha0s chakrapani Charles Belov charmi cheops90 chr.fritsch chrisbloomfield chrischinchilla Chris Dart chrishks chrisjlee Chris Luckhardt chrispomeroxy ChristianAdamski Christopher James Francis Rodgers **chx cilefen** cirage cjoy CKoch clashar claudinec Claudis claudiu.cristea clemens.tolboom CMS Dude codemonkie codexmas Cogax colan colbol cordoval corvus\_ch cosmicdreams Cottser Countzero cpelham cpj craychee **Crell** crispiatico crotown crowdcg csakiistvan csc4 csg cshuangtw cspitzlay cs\_shadow cweagans cwells cwgordon7 Cyberschorsch Cyberwolf Cyclodex czigor dado Daemon\_Byte daffie dagmar dagmita dags damiankloip DamienMcKenna Damien Tournoud danielnolde Daniel\_Rose danigrll danillonunes DanPir danylevskyi das-peter **dasjo** dasrecht Dave.Ingram Dave Cohen Dave Reid david.lukac davidhernandez David Hernández David Latapie David Lesieur David Strauss david\_garcia David\_Rothstein **dawehner** dboulet dcam dclavain dcmistry dcmouyard dcrocks dddave **deepakaryan1988** delmarr DeNelo denjell derek.deraps derEremit dermario desbeers develCuy deveshpal Devin Carlson devuo Dhorkiy DickJohnson diego21 dileepmaurya dimaro dinarcon diqidoq disasm dixon\_ djdevin DjebbZ djevans dlu dman Dmitriy.trt DmitryDrozdik dobrzyns docker dodorama dokumori Dom. donquixote douggreen dpearcefl dpi Dragan Eror drewish Dries drifter dropcube dropfen droplet drubage drunken monkey drupalninja99 drupleg dsnopek D Szkiba dtarc DuaelFr dudycz duellj durifal Dustin@PI dutchyoda DuttonMa dvinegla dww dysrama Désiré e0ipso e2thex earnie eaton ebeyrent ebrowet Ec1ipsis echoz EclipseGc edmoran edrupal **edurenye** edward\_or **effulgentsia** eftimitac ehegedus eigentor **eiriksm** ekes el7cosmos elachlan elcuco eleisoncruz elfur Eli-T Elijah Lynn emanuelrighetto emarchak emma.maria eojthebrave epari.siva er.pushpinderrana ericduran ericski Eric\_A ershov.andrey esbenvb eshta estoyausente eugenesia eule EvanDonovan Everett Zufelt evolvingweb ezeedub ezra-g **Fabianx** fabpot fabsor facine **fago** fakingfantastic falcon03 Fannon fastangel fenda fgm Fidelix fietserwin filijonka FiNeX fjd Fleshgrinder floretan FMB fmizzell foopang FrancescoQ Frando Frank Ralf fran seva franskuipers franz Freso fubhy fureigh fwalch g3r4 gabriel.achille Gabriel Radic Gaelan gaele gagarine garphy Garrett Albright gaspaio gaurav.goyal gaurav26570 gauravjeet gauravkhambhala gausarts gbentley geerlingguy geertvd generalredneck geoffreyr george.echim Georgii Gerhard Killesreiter giorgio79 GiorgosK gloob gnindl gnuget gobilo gobinathm good\_man **googletorp** goudal gpapadongonas Grayside greenc greenSkin greg.1.anderson Greg Boggs greggles Greg Sims grisendo guillaumev gumanist gusgsm1 guygg guy\_schneerson gvso gyuhyon h3rj4n Hadi Farnoud hairqls Hanno hansfn haripalrao harrrrrrr harry99 hass hatcat Haza hbblogger hchonov heather **heddn** hefox Heine hejzee helenkim hellolindsay henribergius herom herved heyrocker hinikato HnLn holist holly.ross.drupal holtzermann17 hpz hron84 hswong3i hudo hussainweb Hydra iamEAP ianthomas\_uk ibullock IceCreamYou2 icseh. idebr idflood ifrik ifux Ignacio Sánchez iliphil iMiksu indytechcook InternetDevels intuited inwebsolutions IshaDakota itarato ivanchaer ivanjaros Ivan Zugec izmeez izus j.somers j0rd Jacine jackhutton JacobSanford jagalbraith Jaimeguzman jair Jake081 Jalandhar jamesharv jamesliu78 jamiehollern jamiezeidler janoka janusman japicoder Jaredsmith javisr jayboodhun JayMN Jaypan Jaza jbrown jcisio jcnventura jdanthinne jeanfei Jeff Burnz Jeffrey C. jefkin Jelle\_S jeni\_dc jenlampton jepSter jerdavis jerdnas Jeroen JeroenT jesperjb jessebeach jessehs jgSnell **jhodgdon** jherencia jibrán jimyhuang JirkaRybka jiv\_e jicarrion jlbellido jlscott jmauro8ac jmesam jmmarquez jmolivas jnicola joachim joates Jody Lynn joelpittet joewatkins joginderpc johanv JohnAlbin John Bickar johnheaven johnish johnv jojonmaster JonMcL Jon Pugh joris.verschueren **josephdporcell Jose Reyero** joshi.rohit100 joshtaylor joshua.boltz JoshuaRogers jpd4nt jrglasgow jsbalsera jstoller jthorson juankvillegas jucallme juhovh JuliaKM julien JulienD junedkazi **JvE** jvieille jvns jwilson3 k4v kalabro kalman.hosszu karengreen KarenS Karmen Kartagis katbailey kathyh kattedkrab kbasarab kbentham KCarlile kcouch keith.smith keopx kerby70 kerrymick kevee Kevin Morse keyral kfritsche kgoel kholloway kid\_icarus kika kiliweb killerpoke killes@www.drop.org killua99 kim.pepper Kiphaas7 kiwad klausi klonos kmharrell knalstaaf kompressaur Konstantin Komelin KRaisor kreatiL KrisBulman Kristen Pol kristiaanvandeneynde kristink2 krlucas kscheirer ksenzee kurt.iverson lahoosascoots lambic langworthy lanthaler larowlan LarsKramer larsmw Lars Toomre LAsan laura.johnson **lauriii** lazysoundsystem LeeHunter leenwebb leetozu Leeteq legaudinier legolasbo **Leksat** Lendude leonrenkema leschekfm Les Lim Letharion LewisNyman lhangea Liam McDermott Liam Morland **likin** lilou linclark LinL liquidcms lisarex LittleViking litwol lixiphp lmeurs loganfsmyth

keopx kerby70 kerrymick kevee Kevin Morse keyral kfritsche kgoel kholloway kid\_icarus kika kiliweb killerpoke killes@www.drop.org killua99 kim.pepper Kiphaas7 kiwad klaus klonos kmharrell knalstaaf kompressaur Konstantin Komelin KRaisor kreatIL KrisBulman Kristen Pol kristiaanvandeneynde kristink2 krlucas kscheirer ksenzee kurt.iverson lahoosascoots lambic langworthy lanthaler larowlan LarsKramer larsmw Lars Toomre LAsan laura.johnson **lauriii** lazysoundsystem LeeHunter leenwebb leeotzu Leeteq legaudinier legolasbo **Leksat** Lendude leonrenkema leschekfm Les Lim Letharion LewisNyman lhangea Liam McDermott Liam Morland **likin** lilou linclark LinL liquidcms lisarex LittleViking litwol lixiphp lmeurs loganfsmyth **lokapujya** lokeoke LoMo lonelyrobot longwave lostkangaroo lotyrin LoveCharge lpalgarvio lslinnet lsmith77 lucascaro lucaschain luismagr Lukas von Blarer lund.mikkel Luxian lvbeck lydie m1r1k maciej.zgadzaj MacMladen Mac\_Weber maggo magico maijs Malerio Manjit.Singh manningpete MantasK manu4543 Manuel Garcia marcel66 Marc Hannaford marcingy marco marcoscano marcus7777 marcushenningsen marcusx marcvangend marfillaster mariancalinro mark.labrecque markcarver markie MarkusDBX markus\_petrux **Mark\_L6n** marthina martin107 Martin Mayer martin\_q maryedith mas0h mashermike matason MathieuSpil **matsbla** matt2000 MattDanger matty young matulis Maune mauzeh mavimo maxchock **maxocub** maxterner23 maxtorete **mbrett5062** mbyrnes mcarbne mcrittenden mdrummond mducharme MegaChriz memoo merlinofchaos mesr01 meyertox mfb **mgifford** mglaman mgriego mhagedon MHLut MichaelCole michaelfavia michaellenahan michaelmol **Michelle** michlis micnap mikemiles86 mikeryan mikewink mikey\_p mikispeed mikl Mile23 minff mioan Mirabuck mirocow miro\_dietiker mitchell mitokens mitron mitrpaka mitsuroseba Mixologic mjohnq3 mjreich mkalkbrenner mkapst mlecha mlehner616 mlncn mmatsoo mmilano moe4715 mondrake mon\_franco mooffie mortendk moshe weitzman mparker17 **mpdonadio** mpg mr.baileys mr.york mradcliffe mrded mrf MrHaroldA mrjmd mrP mrsinguyen msonnabaum mstrelan mtift mtomaizy mustafau MustangGB mvc my-family myforgedoteu n3or nadavoid nagwani NancyDru natuk naught101 naveenvalecha naveko NaX naxoc nbz neclimdul nedjo neetu morwani nerdoc nerdstein nevergone nevets ngoCKETit nicholosophy nick\_schuch Nick\_vh nicu nicxvan nikhilasrani nikhilsukul nikkubhai Niklas Fiekas niko- NITEMAN Nitesh Sethia nkschaefer **nligo** nod\_ Noe\_ Nomes NonProfit nonsie NotNotCow no\_angel no\_commit\_credit no\_longer\_active\_13 nvinayvinay nyirocsaba nyleve101 oadaeh oheller olli omar omercioglu omers OnkelTem opi oresh oriol\_e9g orlitzky oussema Outi Owen Barton pameeela Pancho Paracetamol parasite ParisLiakos parthipanramesh Pasqualle patrickd Patrick Storey paularmand Paul Broon paulmckibben pbland pbuyle pcambra pdenooijer pdrake Pedro Lozano pedrop pefferen **penyaskito** pepperstreet Pere Orga perusio peximo pflame **pfrenssen** pguillard phiit philbar philipnorton42 philipz phillamb168 PieterJanPut pillarsdotnet pingers Pinolo pixelite pixelwhip piyuesh23 pjbaert pjonckiere pkiraly **plach** Plascual plopesc pmackay pmelab podarok Pol pounard pp pplantinga PrabhuG prajaankit Prashant.c prashantgoel prateek479 pratik60 prikkprikkprikk prodosh psynaptic purabkharat pwieck **pwolanin** qgil quicksketch quietone rachel\_norfolk RachFrieee rachit\_gupta rahul.shinde rahuldolas123 RajeevK Rajesh Ashok rajneeshb rak2008 rameshbabu.g ramlev Ranko rasskull ravi.khetri RavindraSingh rbayliss rbmboogie rbosscher rbunch rdickert rdrh555 realityloop redndahead reglogge renat rfay rhabbachi ricardoamaro rickmanelius rickvug rkjha **rkoller** rli rlmumford **robertdbailey** robertgarrigos Roberto Gerola Robin Millette Robin Monks RobLoach robmc RobW rocket\_nova roderik rodrigoaguilera RodrigoBalest ronald\_istos rooby RoySegall rpayanm rpsu rszrama rteijeiro rudiedirkx rudivanes rupl russo79 rvilar rwt ry5n ryanissamson Ryan Weal rych sahain saki007ster salvis Sam152 sandipmkhairnar sandykadam Saphyel saravananr971 sardara sasanikolic sasha.ua savithac Sborsody Schnitzel scor scottalan sdboyer sdelbosc SeanBannister SeanKelly SebCorbin sebi segi seiplax Sephi77 seranooo5 sergeypavlenko Sethie sethiele seutje sfyn Shai shanethehat **Sharique** Shellingfox shenzhuxi shixish shnark shuklasp Shyamala sidharrell sidharthap sihv SiliconMind Sill silverdog silverwing simolokid Simon Georges sinasalek sir\_squall skippednote skipyTskwashd skyredwang slashrsm slowflyer smiletrl smithworx smokris snufkin Snugug socketwench soipo Soul88 SoumyaDas sourcesoft spacereactor spearhead93 speely Spleshka Stalski starchild stBorchert **stefan.r** Stefan Freudenberg stefank Stefan Nagtegaal SteffenR steinmb stella stephen.colson stephr Steven Jones stevepurkiss stijndmd stkrzysiak stpaultim StryKaizer StuartJNCC subhojit777 Sumeet.Pareek **SUN** sun.core superspring surandesilva surgeonbor sushantpaste sushilkr sushyl **Sutharsan** svendecabooter svenryen swastik1608 Sweetchuck swentel sxnc Sylvain Lecoy sylvain\_a szato T-lo tammo tarmstrong tatarbj te-brian tedbow tetranz thamas thechanceg thedavidmeister thegreatone thehong thePanz theunraveler the\_phi ThisIsDog thlafon thomas4019 thomastorfs Thomas\_Zahredden ti2m tim-e **tim.plunkett** Tim Bozeman timmillwood timofey tinker tinyrobot tkoleary tky tcloudon tobiasb toemaz tomreavley tomsm TonyScott Tor Arne Thune torpy TR Transition TravisCarden trevjs tsi **tstoeckler** tsvenson tucho twistor TwoD twomasc typhonius Uccio Ujin ultimike underq unstatu **Upchuk** ursula vaartio vacho vaibhavjain valdo valokettu valthebald Vapes vasi1186 vasike vastav vermario **vijaycs85** Vikas Negi virgo virtualstep visabhishek VladSavitsky vlkff vollepeer voxpelli vuzzbox vyasamit2007 vzbk wadmiraal walkah wamilton weakqueen99 **webchick** **webflo** webkenny webmozart webwarrior westie WigglyKoala wilco WilliamB willieseabrook willyk wilsonw **Wim Leers** wjaspers **wmortada** wmostrey wojtha woody WormFood wrg20 wroxbox wusel xaav xadag Xano xecstasyx Xen **xjm** xmacinfo xpound xslim XTCHost yang\_yi\_cn yanniboi yannickoo yannisc yched **YesCT** ygerasimov yhager yohannbzh yoroy ytsurk yukare yurtboy z.stolar zaporylie zealfire ZenDoodles Zerdiox zerodeux zeropx zestagio zetagraph zippydoug zirvap zkday **znerol** Zoltán Balogh zroger zschmid zserno zuuperman \_nolocation





NEW ORLEANS  
DRUPALCON 2016

# How was it?

Evaluate this session - <https://events.drupal.org/node/9814>



---

@gaborhojtsy