

What's new in VIVO 1.12?

Brian Lowe, interim VIVO tech lead

OVERVIEW



1. Where are we?
2. Internationalization
 - What can you do today?
 - What can you do with 1.12?
3. Installation
4. Community development
6. How you can get involved

WHERE ARE WE?

- Wrapping up testing by dev team of „alpha” release.
- Headed toward RC1 „Release Candidate 1” for testing by broader VIVO community.

WHERE ARE WE?

- Two weeks of testing for each release candidate.
- Expect final release in early Q2 2021.

INTERNATIONALIZATION

The image displays four overlapping screenshots of the VIVO website, illustrating its internationalization across different languages. Each screenshot shows the VIVO logo and the tagline "connect • share • discover".

- English (top-left):** Shows the "Welcome to VIVO" section with the text "VIVO is a research-focused discovery tool" and a search bar labeled "Search VIVO". A "Research" button is visible at the bottom.
- Spanish (top-right):** Shows the "Bienvenido a VIVO" section with the text "VIVO es una herramienta de descubrimiento centrada en la investigación" and a search bar labeled "Buscar en VIVO".
- French (middle):** Shows the "Bienvenue dans VIVO" section with the text "VIVO est une plateforme de découverte axée sur la recherche" and a search bar labeled "Recherche VIVO".
- German (bottom-right):** Shows the "Willkommen bei VIVO" section with the text "VIVO ist ein forschungsorientiertes Recherchewerkzeug, das die Zusammenarbeit zwischen Wissenschaftlern quer durch alle Fachbereiche ermöglicht." and a search bar labeled "VIVO durchsuchen".

Navigation menus in each language include: English (Home, People, Organizations), Spanish (Inicio, Personas, Organizaciones, Investigaciones, Eventos, Mapa de capacidades), French (Accueil, Personnes), and German (Home, Personen, Organisationen, Forschung, Events, Forschungsnetz). Language selection dropdowns are also visible, showing options like "Español", "Français (Canada)", and "Deutsch (Deutschland)".

INTERNATIONALIZATION – PRE-1.12

- Was relatively easy to make VIVO filter its content by language.
- Could add RDF data that uses different language tags.
- Could add labels in different languages through the interface.

INTERNATIONALIZATION – PRE-1.12

- Was not quite as easy to add a new language to VIVO's interface elements
 - especially if your VIVO already had a populated database
- Not possible to edit content in different languages (other than labels)

INTERNATIONALIZATION – PRE-1.12

```
</manifest>
</archive>
<archiveClasses>>false</archiveClasses>
<overlays>
  <overlay>
    <groupId>org.vivoweb</groupId>
    <artifactId>vivo-webapp</artifactId>
    <type>war</type>
  </overlay>
  <!-- Overlays for multilingual support -->
  <!-- overlay>
    <groupId>org.vivoweb</groupId>
    <artifactId>vivo-languages-webapp</artifactId>
    <type>war</type>
  </overlay>
  <overlay>
    <groupId>org.vivoweb</groupId>
    <artifactId>vivo-languages-webapp</artifactId>
    <type>war</type>
  </overlay -->
</overlays>
<webResources>
  <resource>
    <directory>src/main/webResources</directory>
    <filtering>>true</filtering>
  </resource>
</webResources>
```


INTERNATIONALIZATION – 1.12

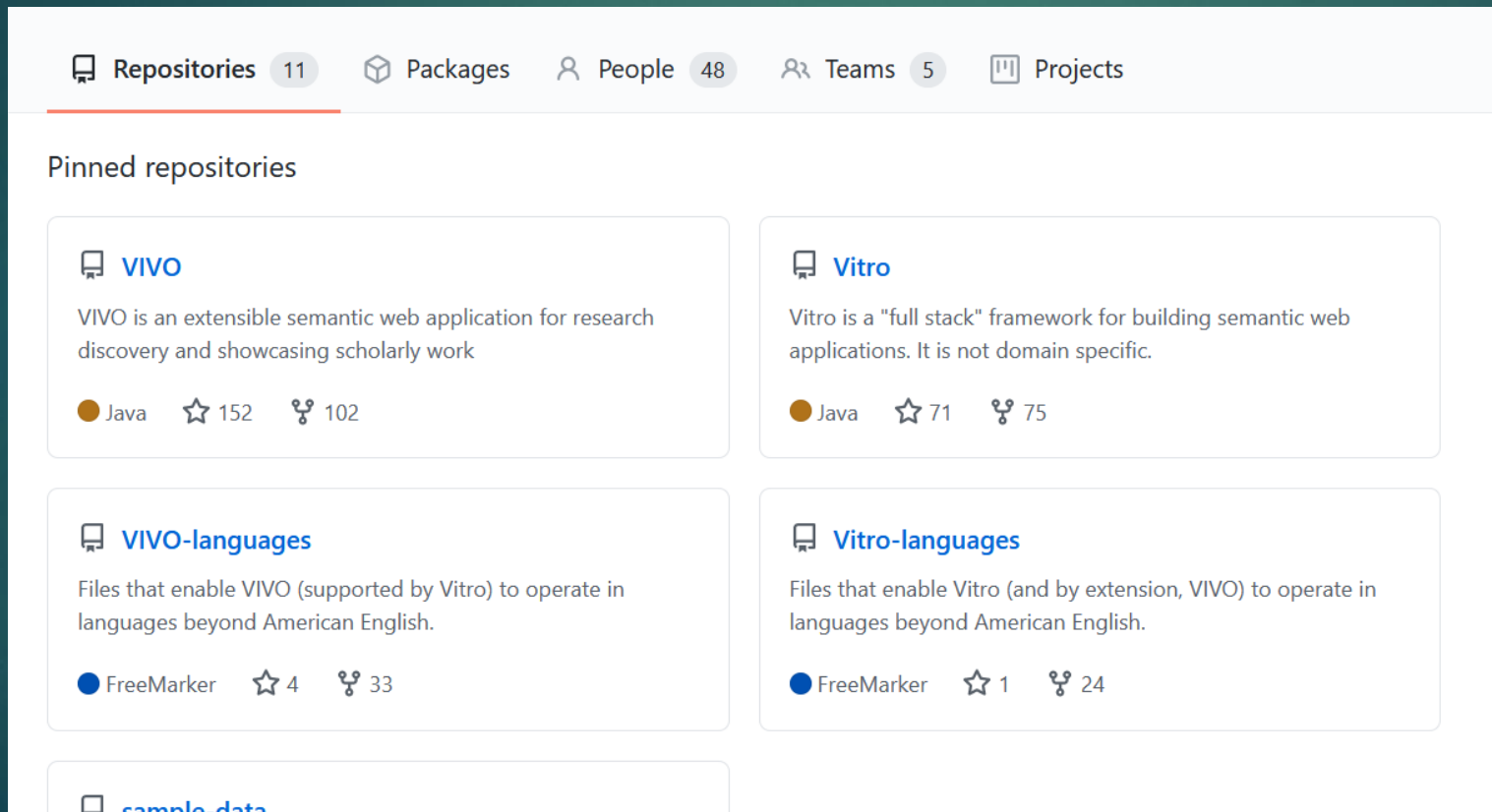
```
</manifest>
</archive>
<archiveClasses>>false</archiveClasses>
<overlays>
  <overlay>
    <groupId>org.vivoweb</groupId>
    <artifactId>vivo-webapp</artifactId>
    <type>war</type>
  </overlay>
  <!-- Overlays for multilingual support -->
  <!-- overlay -->
    <groupId>org.vivoweb</groupId>
    <artifactId>vivo-languages-webapp</artifactId>
    <type>war</type>
  </overlay>
  <overlay>
    <groupId>org.vivoweb</groupId>
    <artifactId>vivo-languages-webapp</artifactId>
    <type>war</type>
  </overlay -->
</overlays>
<webResources>
  <resource>
    <directory>src/main/webResources</directory>
    <filtering>>true</filtering>
  </resource>
</webResources>
```

INTERNATIONALIZATION – 1.12

- No more editing XML files to install new languages.
- Languages are installed and ready to go. Just enable the ones you want.
- Your triple store only gets modified if you enable new languages.

INTERNATIONALIZATION – 1.12

English is just one of several languages.
No longer privileged.

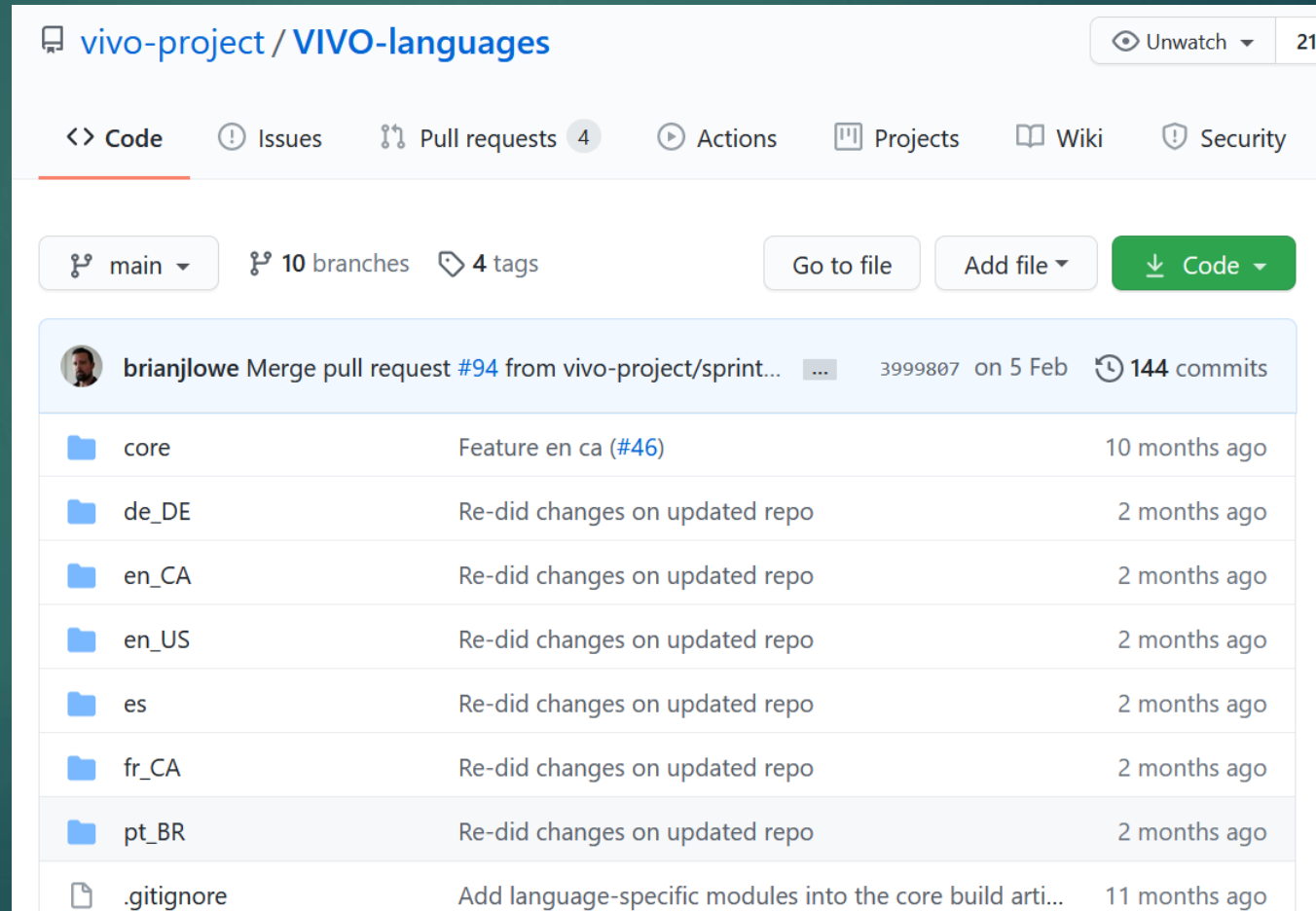


The screenshot displays a web interface for a software repository. At the top, there are navigation links for 'Repositories' (11), 'Packages', 'People' (48), 'Teams' (5), and 'Projects'. Below this, the 'Pinned repositories' section is shown. It contains four repository cards arranged in a 2x2 grid. Each card includes a repository icon, a title, a description, and statistics for Java, stars, and forks.

Repository Name	Description	Language	Stars	Forks
VIVO	VIVO is an extensible semantic web application for research discovery and showcasing scholarly work	Java	152	102
Vitro	Vitro is a "full stack" framework for building semantic web applications. It is not domain specific.	Java	71	75
VIVO-languages	Files that enable VIVO (supported by Vitro) to operate in languages beyond American English.	FreeMarker	4	33
Vitro-languages	Files that enable Vitro (and by extension, VIVO) to operate in languages beyond American English.	FreeMarker	1	24

INTERNATIONALIZATION – 1.12

Each language has its own top-level directory.



The screenshot shows the GitHub repository page for `vivo-project / VIVO-languages`. The repository is currently on the `main` branch, with 10 other branches and 4 tags. A recent commit by `brianjlowe` is highlighted, showing a merge of pull request #94. Below the commit, a list of files and directories is displayed, including language-specific directories like `core`, `de_DE`, `en_CA`, `en_US`, `es`, `fr_CA`, and `pt_BR`, as well as a `.gitignore` file.

File/Directory	Description	Time
core	Feature en ca (#46)	10 months ago
de_DE	Re-did changes on updated repo	2 months ago
en_CA	Re-did changes on updated repo	2 months ago
en_US	Re-did changes on updated repo	2 months ago
es	Re-did changes on updated repo	2 months ago
fr_CA	Re-did changes on updated repo	2 months ago
pt_BR	Re-did changes on updated repo	2 months ago
.gitignore	Add language-specific modules into the core build arti...	11 months ago

INTERNATIONALIZATION – 1.12

- When you enable a new language, all of the RDF triples in that language get loaded – unless you already have loaded values that would conflict.
- No more need to clear and reload a triple store just to fully support a new language.

INTERNATIONALIZATION – 1.12

Great for administrators.

What do users get?

INTERNATIONALIZATION – PRE-1.12

Before 1.12: choose the language for a label

Añadir etiqueta

Primer nombre *

Segundo nombre

Apellido *

seleccionar la configuración regional

español

inglés (Estados Unidos)

portugués (Brasil)

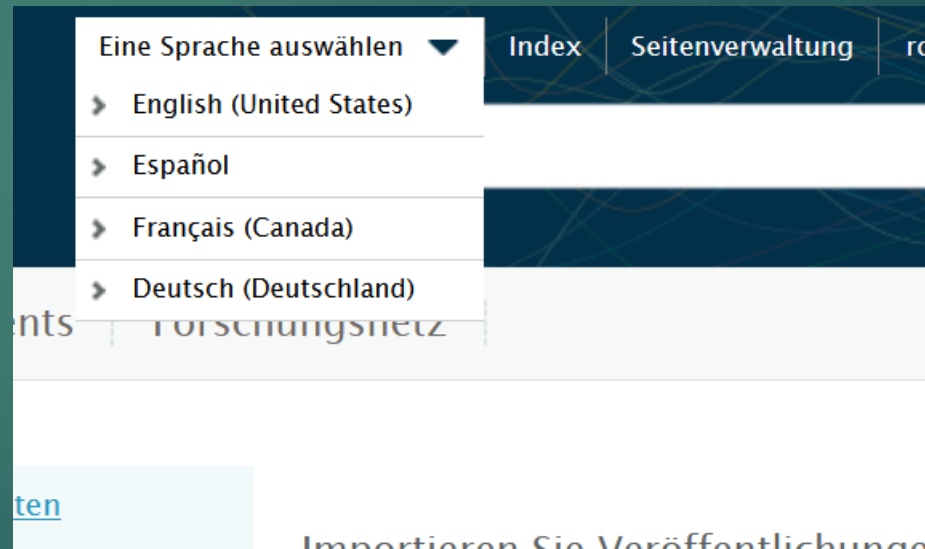
seleccionar la configuración regional

o [Cancelar](#)

* Campos obligatorios

INTERNATIONALIZATION – 1.12

1.12: Use the main language selector to set the language for your edits.



INTERNATIONALIZATION – 1.12

1. Select English from the dropdown.
2. Click on „educational background.”
3. Fill out the form in English.

Organization Type *

Selected Organization: ([Verify this match](#) or [change selection](#))

Type of Educational Training *

Department or School Name within the Organization

Degree

Major Field of Degree

Supplemental Information (e.g., Thesis title, Transfer info, etc.)

Română Note

INTERNATIONALIZATION – 1.12

4. Select Deutsch from the dropdown.
5. Edit the same entry.
3. Fill in the German values for the fields.

Bearbeiten Eintrag für Ausbildung Librarian, Test

Art der Organisation *

Universität

Ausgewählte Organisation:

Universität Innsbruck

[\(Übereinstimmung verifizieren](#) oder [Auswahl ändern](#))

Art der Ausbildung *

Anderes

Name des Fachbereichs oder der Schule innerhalb Organisation

Naturwissenschaften

Abschluss

Wählen Sie ein

Hauptfach des Hochschul- oder Universitätsabschlusses

INTERNATIONALIZATION – 1.12

Affiliation

Publications

Research

Teaching

Service

Background


Contact

Identity

Other

View All

education and training +

[University of Innsbruck](#) , Natural Sciences 1999 - 2003  

credentials +

anzeigen

Ausbildung und Schulung +

[Universität Innsbruck](#) , Naturwissenschaften 1999 - 2003  

ausgestellte Referenz +

INTERNATIONALIZATION – 1.12

Use same technique with admin controls

Forschungsnetz Seite bearbeiten

Titel *

Forschungsnetz

Lesbare URL *

/vis/capabilitymap

Muss mit einem Slash beginnen
(z.B. /Personen)

Vorlage *

Default

Benutzerdefinierte Vorlage erfordert Inhalt

Benutzerdefinierte Vorlage enthält allen Inhalte

Dies ist eine Menüseite

Name des Menüpunktes

Forschungsnetz

wenn leer gelassen, wird der Seitentitel verwendet

Inhaltstyp *

Wählen Sie einen Typ Ein oder mehrere Typen hinzufügen

Fixes HTML – capabilityMap

Variablenname *

capabilityMap

Geben Sie hier fixes HTML ein *

Forschungsnetz

INTERNATIONALIZATION – 1.12

- Improved translations throughout.
- Internationalization in places it was previously missing, e.g. capability map.
- Greatly-improved page rendering for long profile pages with multiple languages enabled.

INSTALLATION – 1.12

- Docker-compose deployment built in:

```
mvn clean package -s installer/example-settings.xml
```

```
docker-compose up
```


INSTALLATION

- How do we make installation even easier?
- *War*-file deployment initially developed for 1.12.
 - No compiling VIVO
 - Just copy a file into Tomcat.

INSTALLATION – COMMUNITY NEEDS



- Advantage:
 - Simplifies installation for new users
- Disdvantage:
 - Creates problems for some existing sites with customized workflows

INSTALLATION – COMMUNITY NEEDS

- Solution: Keep (non-Docker) installation the same in 1.12.
- Discuss the optimum approach to installation and configuration for 1.13.

WHAT'S NEXT



- We want your input!
- We'd also love your energy and expertise.

VIVO DEVELOPMENT ACTIVITY



- Planned development sprints.
- Weekly development Zoom calls (Tuesdays at 17:00 in Germany).
- „develop” channel on VIVO slack.
- All are welcome!

VIVO DEVELOPMENT ACTIVITY

<https://wiki.lyrasis.org/display/VIVO/Development+Interest+Group>

- (There's a link to join Slack on this page)

<https://wiki.lyrasis.org/display/VIVO/2021+Development+Calls>

FUTURE DIRECTIONS

Just some of what the development community has been talking about recently:

- Making everything easier – installation and configuration
- Initial setup via GUI?
- Cloud-friendly containerized deployment
- „VIVO in a box”
- Frameworks (e.g. Spring)
- APIs and decoupling the front end
- Roles and permissions
- Messaging
- Data ingest
 - See Data Ingest Task Force

<https://wiki.lyrasis.org/display/VIVO/Data+Ingest+Task+Force>

QUESTIONS?

brian@ontocale.com

Contributors to VIVO 1.12 software development and testing include, but are not limited to:

Rachid Belkouch (UQAM)

Nicolas Dickner (UQAM)

Don Elsborg (CU Boulder)

Dominik Feldschnieders (Universität Osnabrück)

Benjamin Gross (Clarivate)

Christian Hauschke (TIB)

Michel Héon (UQAM)

Alexander (Sacha) Jerabek (UQAM)

Benjamin Kampe (TIB)

Huda Khan (Cornell)

Georgy Litvinov

Brian Lowe (Ontocale)

Sandra Mierz (TIB)

Matthias Lühr (Hochschule Mittweida)

Ralph O'Flinn (University of Alabama at Birmingham)

William Welling (Texas A&M)

Andrew Woods (LYRASIS / Harvard)

vivoweb.org