


A man with glasses and a beard, wearing a black t-shirt with 'Tryton' written on the back, is shown in profile. He is holding a traditional mate cup (cawan) with a bombilla (straw) in his mouth. The background is slightly blurred, showing green foliage and a textured wall. The overall lighting is soft and natural.

iBienvenidos!

➤ Tryton integrates with Drupal

A man with dark hair and glasses, wearing a white t-shirt, is focused on painting a portrait on a large canvas. The canvas is covered in vibrant, expressive brushstrokes in shades of purple, blue, and red. In the background, a chalkboard with Spanish text is visible. The scene is lit with warm, indoor lighting, creating a creative and artistic atmosphere.

¿Who am I?

- ▶ Lucho Rossi
- ▶ Plastic Artist





➤ Luciano Rossi

➤ Software developer (libre)

(<https://www.drupal.org/u/lukio>)

(<https://github.com/lukio>)

(<https://bitbucket.org/lukio>)

# Ayni

- ▶ Iukio
- ▶ Work Cooperative

(Video: <http://gcoop.coop/codigos-cooperativos>)

**Pulsa una tecla para continuar**

## Tryton Argentina (y de Localización)

<https://github.com/tryton-ar>

account\_ar: Plan de cuentas de para empresas Argentinas.

account\_coop\_ar: Plan de cuentas para cooperativas de Trabajo.

party\_ar: Integración del padrón AFIP.

account\_invoice\_ar: Facturación integrada con ws de la AFIP.

account\_check\_ar: Manejo de cheques

account\_voucher\_ar: Comprobantes de pago.

account\_retencion\_ar: Retenciones

bank\_ar: Incorpora los datos de bancos de Argentina.

cooperative\_ar: Gestión de Cooperativa (Recibos, Vacaciones, Socios, etc)

subdiario: Reportes que generan el subdiario

citi\_afip: Informativo de Compras y Ventas



A background image showing two people, a man and a woman, looking at a laptop screen outdoors. The man is in the foreground, wearing a dark shirt with 'Tryton' visible on the back. The woman is behind him, wearing a yellow and orange striped shirt. They are in a natural setting with green foliage.

# Drupal? (<http://www.drupal.org>)

- PHP
- CMS
- Framework
- A lot of modules!
- Free as Freedom (GPL)

A man with glasses and a beard, wearing a dark vest with the word 'Tryton' on the back, is shown in profile. He is holding a small cup and looking towards the left. The background is a blurred outdoor setting with green foliage and a textured wall.

Why we do the integration?

Examples:

- E-commerce | Web Shop
- Bringing data from Tryton to Drupal Example: invoices

A background image showing two people, a man and a woman, looking at a screen outdoors. The man is in the foreground, wearing a dark shirt with 'Tryton' visible on the back. The woman is behind him, wearing a light-colored top. They appear to be in a garden or park setting with trees and foliage in the background.

# How?

Tryton:

- \* REST webservices with flask\_tryton

Drupal:

- \* clients (client connection to tryton)
- \* remote\_entity



flask\_tryton:

```
# token authentication
```

```
curl -u username -X POST https://localhost:5000/rest/v1/token
```

```
# ask for invoices by the token
```

```
curl -u [token]:x -X POST https://localhost:5000/rest/v1/customers/30709463272/3975160/invoices
```

```
{  
  "client_number": "3975160",  
  "currency": "ARS",  
  "href": "/rest/v1/invoices/13679",  
  "id": 13679,  
  "invoice_date": 1467676800,  
  "number": "0002-00007938",  
  "number_amount": "935,67",  
  "state": "paid",  
  "total_amount": "$935,67",  
  "vat_number": "30709463272"
```

```
},
```

```
...
```

```
# ask just for one invoice (brings the report)
```

```
curl -u [token]:x -X POST https://localhost:5000/rest/v1/invoices/3642
```

```
curl -u [token]:x -X POST https://localhost:5000/rest/v1/invoices/3642/customer
```











## Drupal (Invoices)

The idea is that we can use the information that brings from tryton and also keep the drupal way of doing things.

[https://www.drupal.org/project/remote\\_entity](https://www.drupal.org/project/remote_entity)

- \* Execute queries on the remote data
- \* Load local copies of remote entities

Also, the user of the site, has to see only his invoices.

PR EG VNT AS!!!

