

## **There Must be Rules!**

By Wolfgang Ziegler (fago) & Richard Jones (ikos)



#### Who are we?

- Wolfgang Ziegler

   @the\_real\_fago
   Maintainer of Rules and Entity API
   CTO of drunomics
- Richard Jones
   @richardjones
   CTO of i-KOS



## Why Rules?

- Rules are about Reactions to events which happen on your site
- •Use it for automated workflows
- Configure custom actions to be executed by modules



#### **Examples**

Notify me when a user posts a comment on my site

 or just when an anonymous user posts a comment containing some certain bad words



#### **Anatomy of a Rule**

- •A rule consists of:
  - One or more events
  - A set of actions

 A set of conditions that determine whether the rule should execute



### **Events**

- A user has logged in
- Content has been updated
- State Transition
- A product has been added to the cart



### **Actions**

- •Grant a role to a user
- Set a data value
- Create an entity



### **Conditions**

- Content is of type
- User has roles
- Data comparison



## **Combining Rules and Data**

- Configuring data sources
- •Use the data selector to get what you need.
- Provide some fixed configuration, e.g. select one of the available options or provide a text.
- Switch between both modes as you like



### **Components**

 Grouping a set of actions or conditions together so that they can be reused.

 Reusable on their own so they can be invoked by other rules

- Or by custom code
- Or by test cases
- Reuse
  - via actions or conditions
  - ■via modules, e.g. VBO
  - or by custom code
  - or by test cases



## Scheduling

- Can schedule actions to be performed at specific times
- Schedule the evaluation of a component
- •With any kind of parameters!



### Loops

 Can iterate over a set of data and perform actions against multiple items



### **Extending Rules**

 As it's Drupal, you can define you own events, conditions and actions

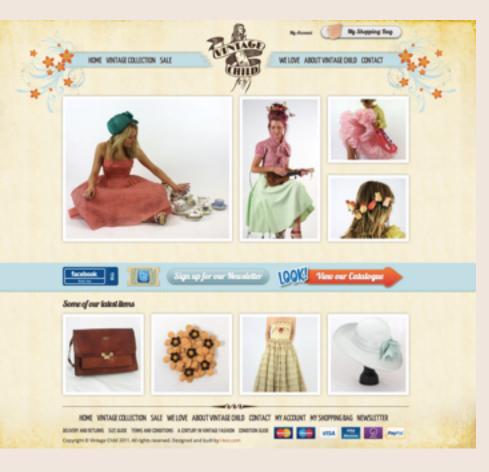
 Rules provides a solid API for adding event, actions and conditions

- •Used by a lot of modules
- Benefits from integration with entity API
- and more



### **Rules in Action**

- How rules interacts
   with other Drupal
   Modules
- Using a Real-life case study



14



# How can we charge different VAT for different products?

- Rules' APIs allow modules to re-use it and to embed some of its UI
- Drupal Commerce does so
- Uses a generated component for applying VAT



16

VAT-1

# Video Demo



# I've decided to discount some products...

17

- 10% off
- But only this week
- And only T-Shirts
- And maybe just on products that have been on the site for a while...just so I can clear some stock



# Video Demo



# That worked great! But now I am out of stock...

Can you set up something so people can get an email when items are back in stock?



## Add some new modules...

Rules integrates with Flag
Allow the customer to set a flag when an item is out of stock



### The "Back in Stock" Rule

- After updating a Commerce product
- If product is back in stock
- Fetch users who have flagged the product
- Loop over the users
- and send a mail to each of them
- reset the flag for each of them



# Video Demo

22



# It's working really well - I had to hire someone to load on my new stock.

Now I need to make sure they can't put stuff on the site before I check it



24

## Add some new modules

# Workbenchwith Rules!



## **Workbench Moderation Rules**

- Event: item move between workflow states
- Action: email is sent to site owner



# Video Demo

26



# Now I have loads of products... and loads of orders... how can I process them all quickly?

27



# Video Demo



29

## I want to end my promotion when I've sold 100 items... how can I schedule it to finish? Special offer Monday

auto unpublish the offer Tuesdayauto republish on Monday



# Video Demo

30



## **Scheduled Rule - Abandoned Carts**

- Check if user has completed
- Use Scheduler
- Send email on cart abandoned



# Video Demo



33

OK I want to set up a free gift when a certain coupon is added and the customer has one at least 2 t-shirts in their cart but doesn't have any shoes and no other items in a promotion and there should only be 2 free gifts per customer.



## **Time for Questions!**