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# Smart Buttons in v8

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# Content

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3. Magic! (not really)
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# What are Smart Buttons?



## Agrolait

Components Buyer

★ 3 Opportunities	📅 0 Meetings	📞 0 Calls
📄 9705.00 Invoiced	💰 2 Sales	📋 0 Tasks

**Address** 69 rue de Namur  
Wavre


**Phone** +32 10 588 558

**Website** <http://www.agrolait.com>

**Mobile**

**Email** [agrolait@yourcompany.example.com](mailto:agrolait@yourcompany.example.com)

Contacts



**Michel Fletcher**

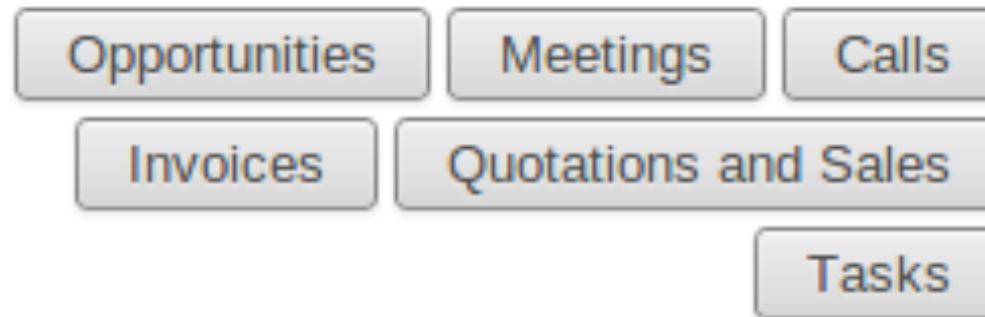
Analyst

[michel.fletcher@agrolait.example.com](mailto:michel.fletcher@agrolait.example.com)









## Smart Buttons (2)

From



To







 <b>3</b> Opportunities	 <b>0</b> Meetings	 <b>0</b> Calls
 <b>9705.00</b> Invoiced	 <b>2</b> Sales	 <b>0</b> Tasks



## Smart Buttons (3)

Two biggest advantages:

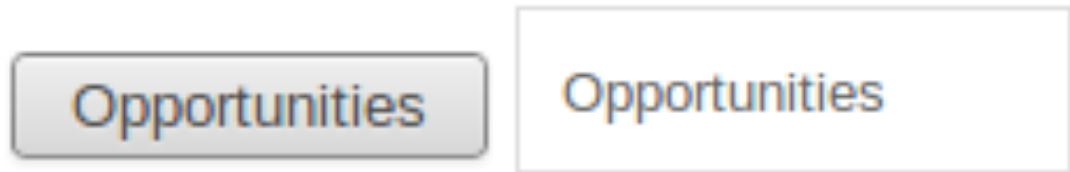
- dynamic,
- customizable.

 <b>3</b> Opportunities	 <b>0</b> Meetings	 <b>0</b> Calls
 <b>9705.00</b> Invoiced	 <b>2</b> Sales	 <b>0</b> Tasks

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# From Regular to Smart

it's not hard



Before:

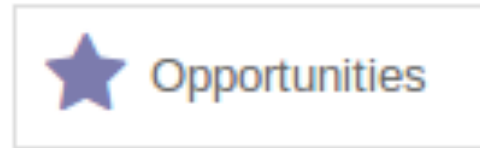
```
<button class="oe_inline" type="action"
  string="Opportunities"
  name="..." context="..." />
```

After:

```
<button class="oe_inline oe_stat_button" type="action"
  string="Opportunities"
  name="..." context="..." />
```



## Converting a plain button (2)



Just add 'icon' attribute.

```
<button class="oe_inline oe_stat_button" type="action"
  string="Opportunities"
  icon="fa-star"
  name="..." context="..." />
```

Font awesome:

<http://fontawesome.github.io/Font-Awesome/>

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**Where is the magic?**  
(next slide)



# Button tag can contain anything

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Before, the button tag was self-closed:

```
<button/>
```

Now, it can contain literally anything:

```
<button>  
    literally anything  
</button>
```

The form view parse the button and render anything inside (html/Odoo widgets)



## Example (html)

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Pure html : Full control on the content

```
<button class="..." type="..." name="..." context="...">  
  <p>Hello <strong>Odoo</strong></p>  
</button>
```

Result:

A rectangular button with a thin grey border. Inside the button, the text "Hello Odoo" is displayed. "Hello" is in a standard grey font, and "Odoo" is in a bold, dark blue font.

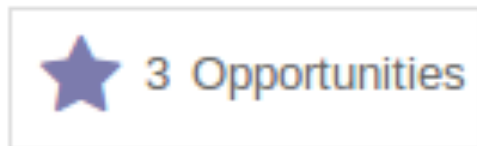
Hello **Odoo**



## Example (html+field)

```
<button class="..." type="..." name="..." icon="fa-star">  
  <span><field name="opportunity_count"/> Opportunities</span>  
</button>
```

Result:



This is fully dynamic!



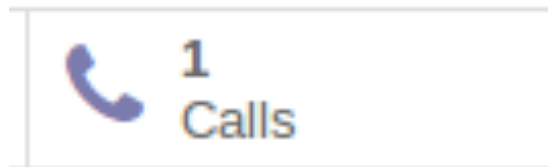
## Common situation: One2many fields

Example: *phonecall\_ids* in res.partner.

Step 1: add functional field *phonecall\_count* to res.partner

Step 2: add field with widget 'statinfo'

```
<button class="..." type="..." name="..." icon="..." context="...">  
  <field string="Calls" name="phonecall_count" widget="statinfo"/>  
</button>
```



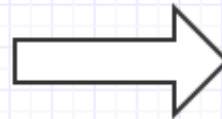


# Customize your buttons

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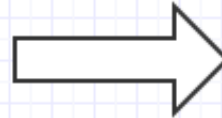
We can customize in two ways:

Customize content



add functional field

Customize look



use widget

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# Customizing Content





# Case study: Sum of all invoices for a customer

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## 1. add functional field

```
'total_invoiced': fields.function(_invoice_total,  
                                string="Total Invoiced",  
                                type='float')
```

```
def _invoice_total(self, cr, uid, ids, field_name, arg, context=None):  
    result = {}  
    account_invoice_report = self.pool.get('account.invoice.report')  
    for partner in self.browse(cr, uid, ids, context=context):  
        ...  
    return result
```

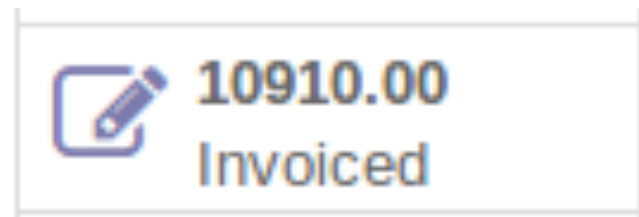


## Case study: Sum of all invoices for a customer (2)

2. add field to button

```
<button type="action" class="oe_stat_button"
    icon="fa-pencil-square-o" name="..." context="..." >
    <field name="total_invoiced" widget="statinfo"/>
</button>
```

3. profit!



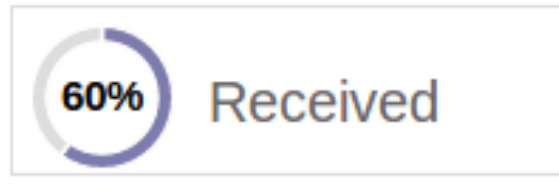
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# Customizing Look



# PercentPie Widget

Percentage (integer between 0 and 100)

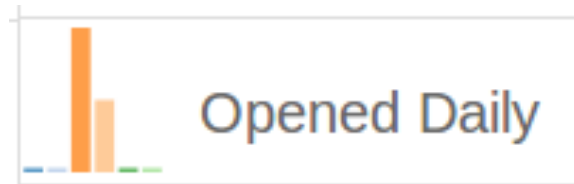


```
<button name="..." type="action" class="oe_stat_button">  
  <field name="received_ratio"  
    string="Received"  
    widget="percentpie"/>  
</button>
```



# Bar Chart Widget

Need to display some kind of trends? Use BarChart Widget!



```
<button name="..." type="action" class="oe_stat_button">  
  <field name="opened_daily"  
    string="Opened Daily"  
    widget="barchart"/>  
</button>
```

(see mass\_mailing.py for full details)

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**Thank you!**