TYPO3 in the larger world

Interacting with third-party applications

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cobweb

Back in 2006

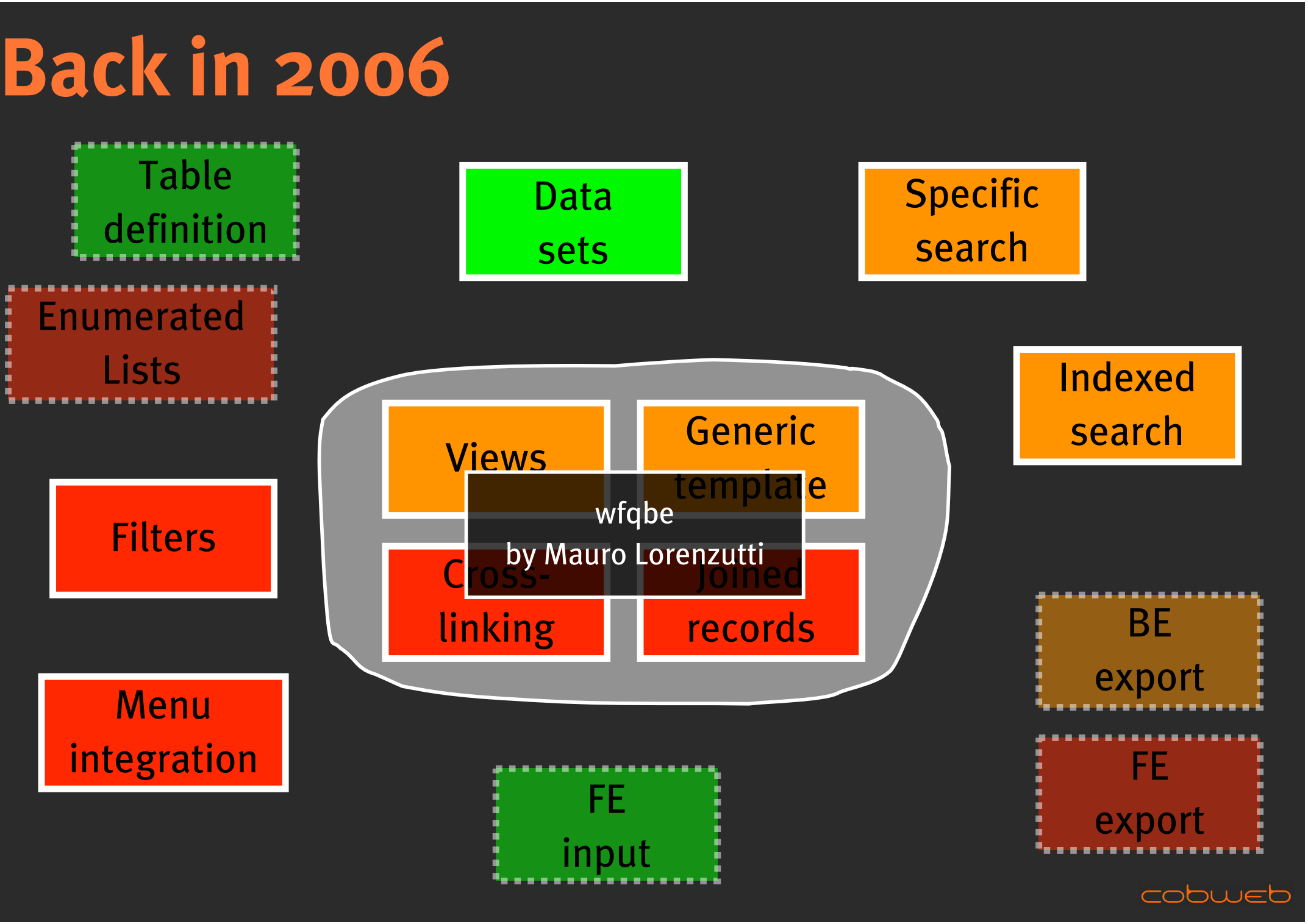
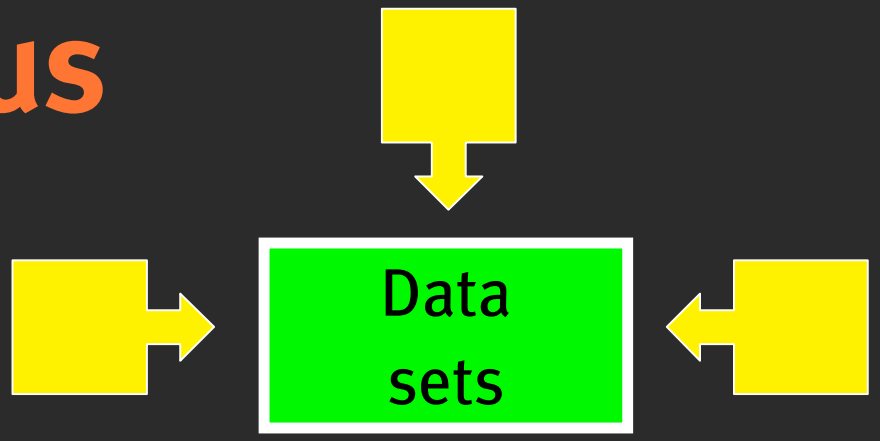
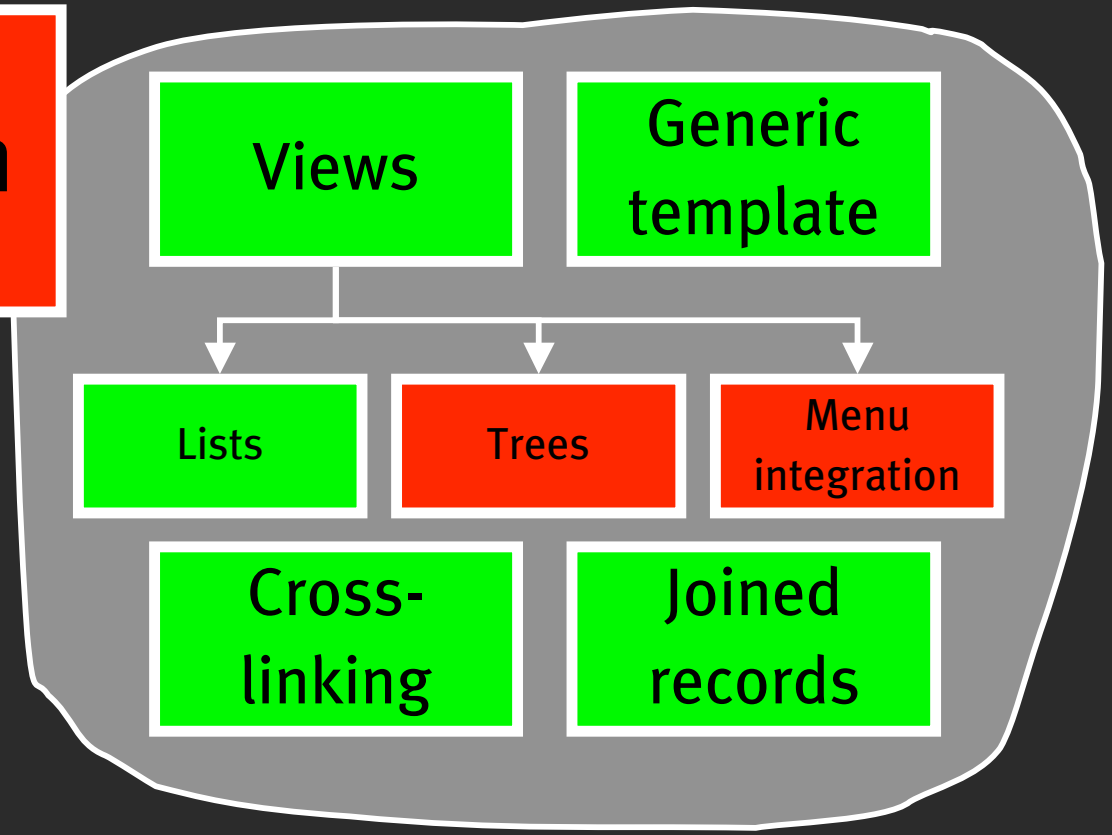


Table definition
Data sets
Specific search
Enumerated Lists
Indexed search
Views
Generic template
wfqbe
by Mauro Lorenzutti
Filters
Cross-linking
Joined records
BE export
Menu integration
FE input
FE export
cobweb

Change of focus



Contextualisation



From the inside: external import

Extension key: external_import

Features:

- *Define external data source using extended TCA syntax*
- *Backend end module for manual sync*
- *Gabriel integration for automated sync*

From the inside: generic connectors

New service type for standardising communication with third-party applications

init()	Validate connection
query()	Get data from distant source
fetchRaw()	Return data as is
fetchXML()	Return data as XML structure

External import: extended TCA

Demo

From the outside: remote server

Extension key: remote_server

Features:

- *Receive calls from external applications in a standardised way*
- *Return responses in standard formats (XML, JSON)*
- *Based on BE Ajax script of TYPO3 4.2*
- *Secured access using existing TYPO3 auth services*

Remote server

Demo

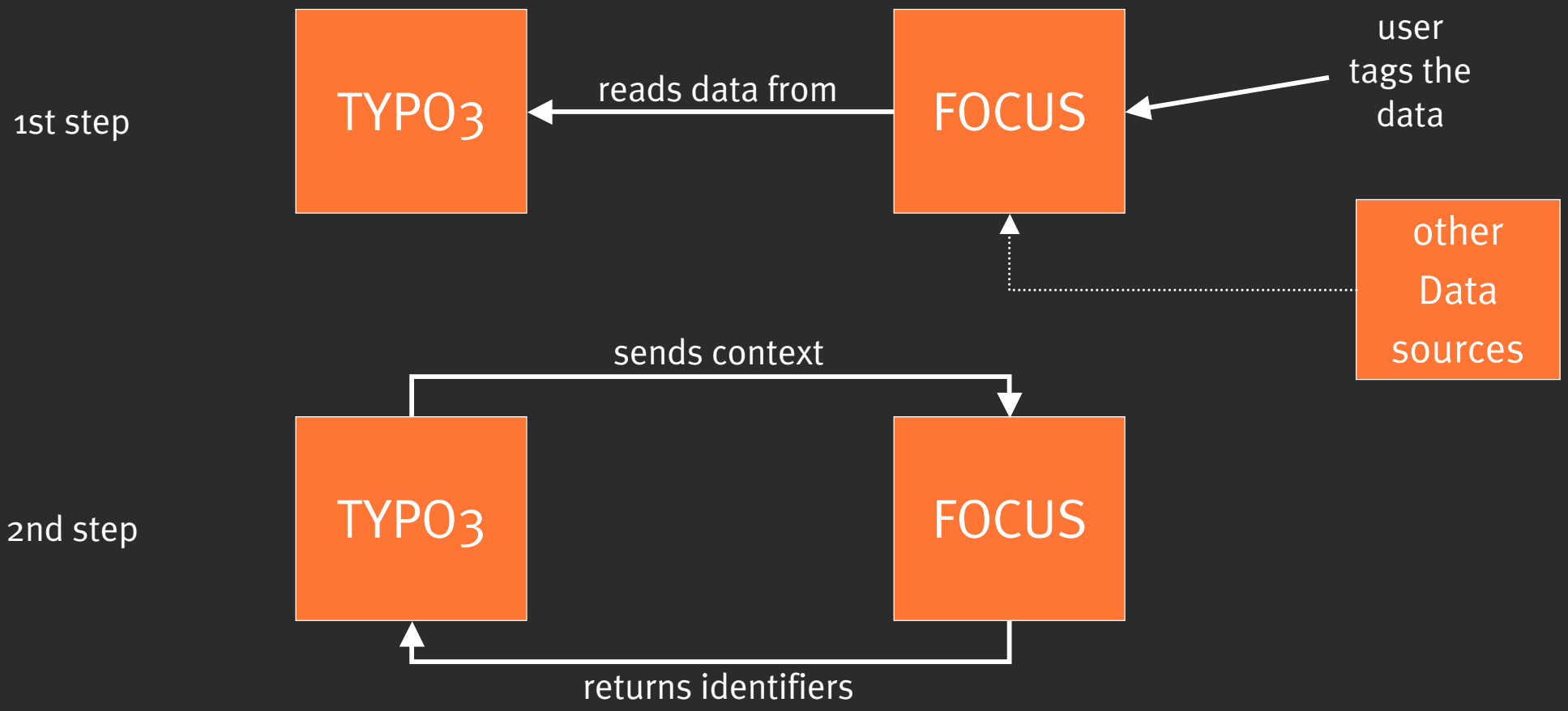
Gathering data: a rough tool

Extension: dataquery

Features:

- *Type a simple SQL statement*
- *Handling of enable fields is automated*
- *Perform outer joins*
- *Get standardised result set back*
- *Implement special features in query*

Filtering data: external tool



Standard dataset structure

```
array(
        'name' => 'maintable',
        'records' => array(
                ...
                'subtables' => array(
                        'name' => 'subtable',
                        'records' => array(
                                ...
                        )
                )
        )
)
```

Display engine

Extension datadisplay:

- *New content element type*
- *Reads the standardised dataset structure*
- *Uses TypoScript for maximum flexibility*
- *Can handle joined records*
- *More of a proof of concept for now, will be expanded in the future*

Display engine: example TS

```
plugin.tx_datadisplay_pi1 {
    configs.foobar {
        allWrap.wrap = <table cellpadding="0" cellspacing="0" border="0">|</table>
        row.cObject = COA
        row.cObject {
            10 = TEXT
            10.value = my_field_1
            10.wrap = <td>|</td>
            20 = TEXT
            20.value = my_field_2
            20.wrap = <td>|</td>
            wrap = <tr>|</tr>
            30 < plugin.tx_datadisplay_pi1
            30.userFunc = tx_datadisplay_pi1->sub
            30 {
                name = subtable
                configs. >
                configs.subtable {
                    ...
                }
            }
        }
        field >
    }
}
```

Display engine

Demo

Sending data back

Nothing definite yet, but:

- *a TCEmain hook could detect extended TCA syntax and write to external source*
- *issues of data integrity between two or more applications must be seriously considered*
- *data-routing software?*