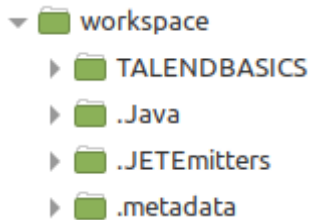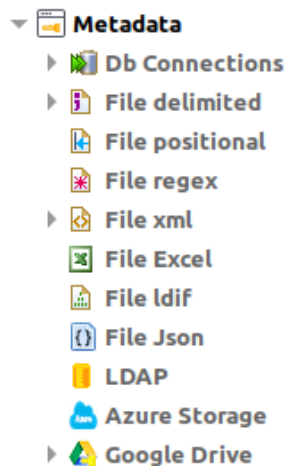# CheatSheet: Talend Open Studio
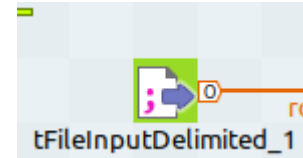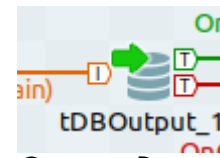
➔ Important terms

Workspace: Folder that stores Talend objects and can contain multiple projects
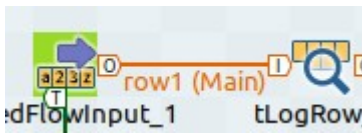

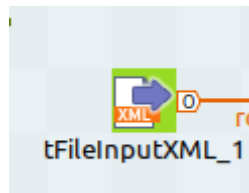**Metadata:** data source access parameters
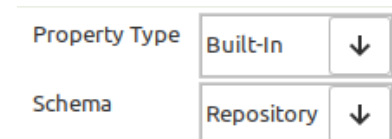

Input: Data source
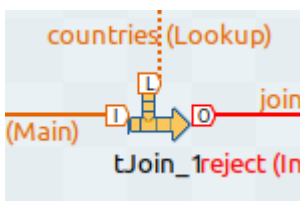

Output: Data target

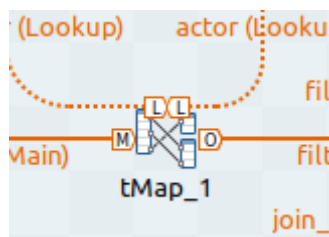**Row:** Connection between 2 components in a job for data transfer

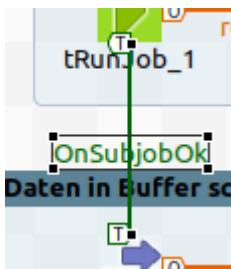**Component:** Job design building block

Built-In vs. Repository: Properties of a component exist locally or centrally.
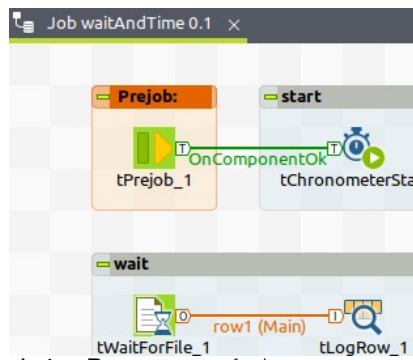

Join: Linking data structures with a key

Mapping: like Join, but allows multi-level joins, transformations and filtering

Trigger: connection between 2 components in a job for the transmission of activators

Job: Process of data integration

Description of the Schema

Column	Key	Type	☑ Nulla	Date Pattern (Ctrl+!	Length	Precision
Store	☐	String	☑		40	0
Date	☐	Date	☑	"yyyy-MM-dd"	10	0
Sales	☐	Double	☑		10	2

Schema: Definition of columns with name, data type, etc.

→ Data types

primitive / Wrapper types	Description
boolean / Boolean	true or false
char / Character	single character, e.g. 'c'
byte /Byte	whole numbers from -128 to 127
short / Short	whole numbers from -32.768 to 32.767
int / Integer	whole numbers from -2.147.483.648 to 2.147.483.647
long / Long	whole numbers from -2^{63} bis $2^{63}-1$
float / Float	Decimal numbers from +/-1,4E-45 to +/-3,4E+38
double/ Double	Decimal numbers from +/-4,9E-324 to +/-1,7E+308

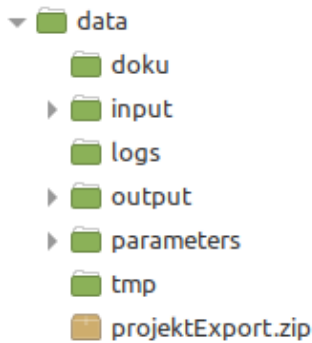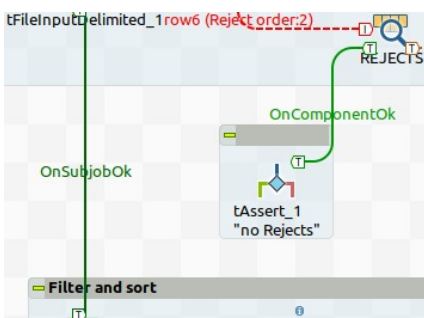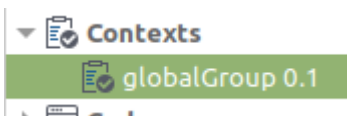| Object based types	Description
Date	Specification of instants with components e. g. "yyyy-MM-dd HH:mm" für "2021-03-25 21:13"
BigDecimal	signed decimal numbers of arbitrary precision, e. g. new BigDecimal("1234567890123.1234523")
String	any character sequence in Java, like "Hallo Welt"
Document	XML document
List	List of values of a given type

→ Best Practices

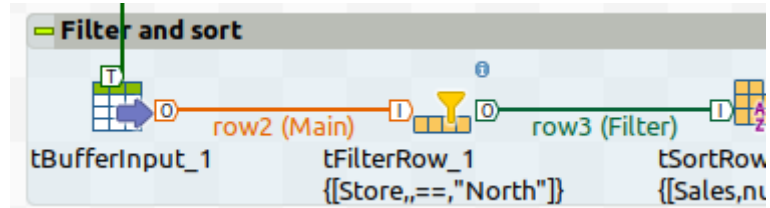Selected topics that have proven themselves in (almost) every Talend project:
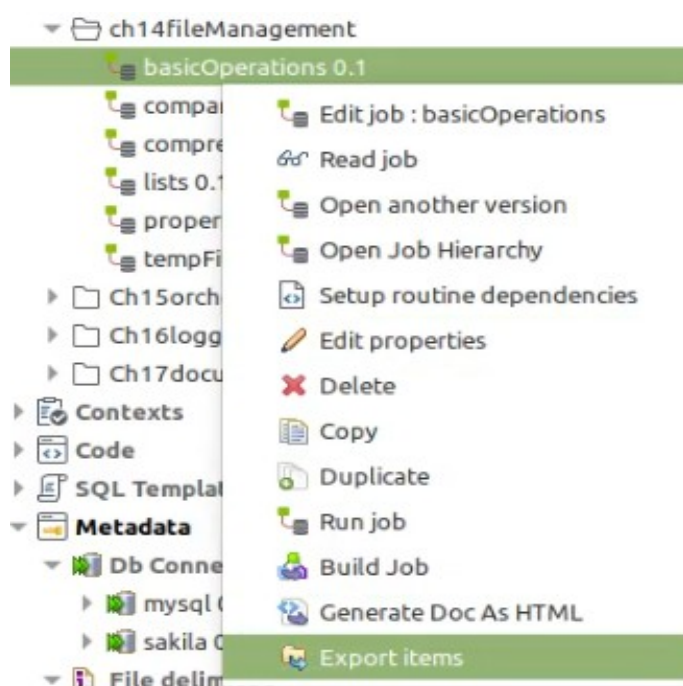

Define **folder structure**

Map **data flows** horizontally

Map **triggers** vertically

use **central contexts**

create regular **backups**

→ FAQ

? How can I reuse a component's schema?

At the source `Strg` + `A` und `Strg` + `C`. At the target `Strg` + `V`.

? How can I access routines, variables, etc. in Expression Builder?

`Strg` + `Space`

? Where can I change the project settings?

`File` + `Edit Project Properties`