



Switching of GUI framework:

The case from Spec to Spec2

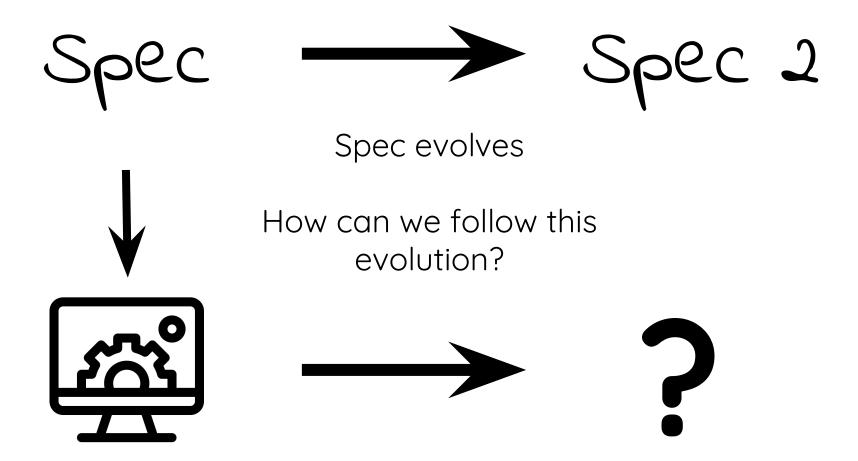
Clement Dutriez, **Benoît Verhaeghe**, Mustapha Derras



Summary

- Problem
- Approach
- GUI Meta-model
- Results
- Future Works







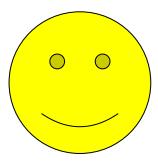
Migrating 1 UI from a framework → another Framework



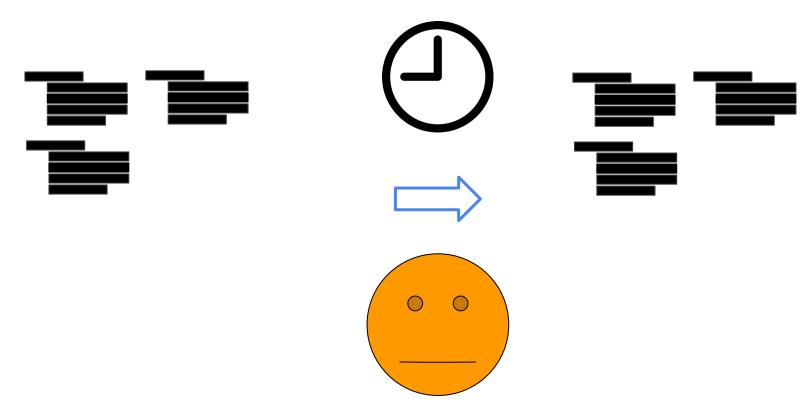




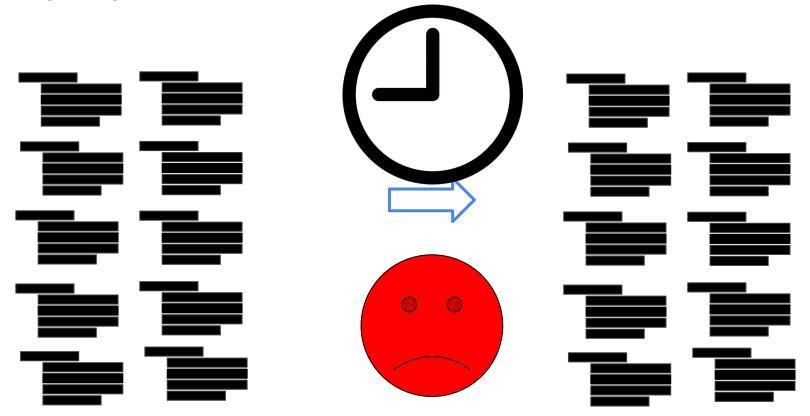




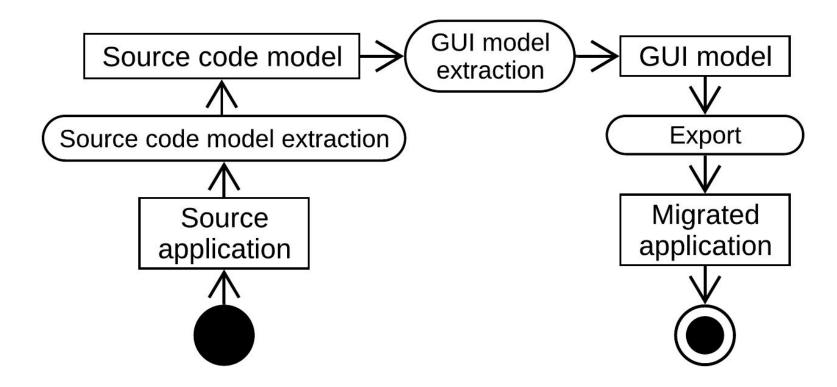
Migrating 10 UI from a framework → another Framework

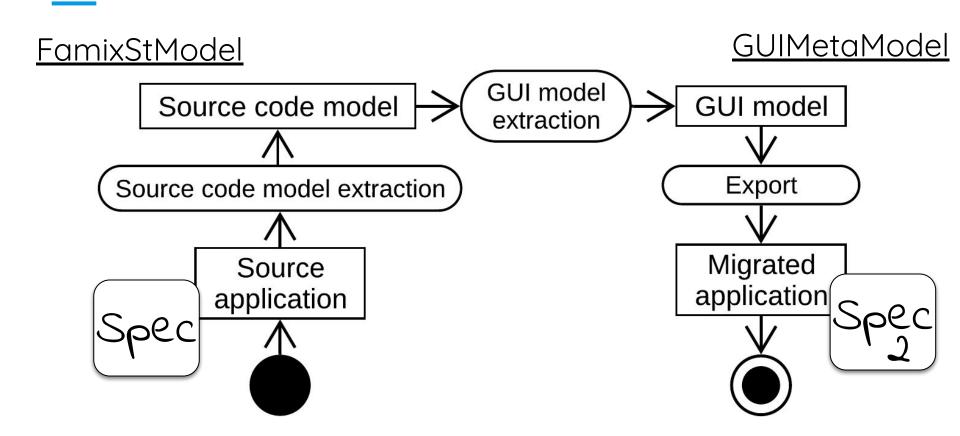


Migrating 500 UI from a framework → another Framework







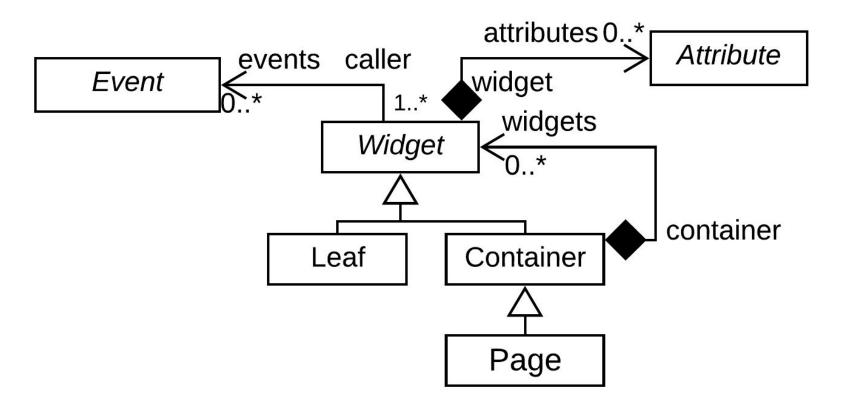


GUIMetaModel

FamixStModel GUI model Source code model GUI model extraction **Export** Source code model extraction Migrated Source application application







Results



Experiment

- Refactoring
- Setting
- CriticToolbar
- DemoButton
- DemoForm
- DBManager manage connection to DB from Pharo

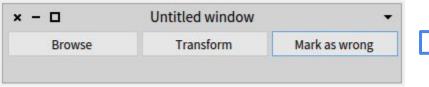
Import result

	Refactoring	Setting	CriticToolbar	DemoButton	DemoForm	DBManager
Widgets number	7	11	5	15	41	37
Widgets Imported	100%	100%	error	100%	100%	100%
Attributes number	8	8	5	19	20	29
Attributes imported	12.5%	25%	80%	74%	80%	89%

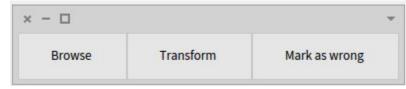
Export result



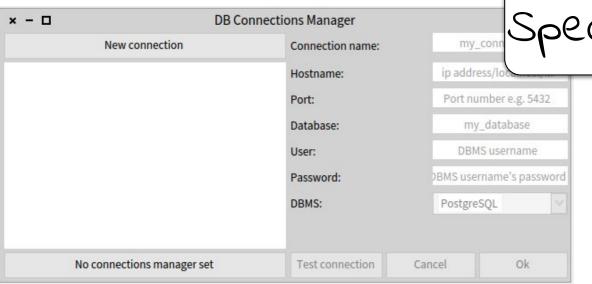




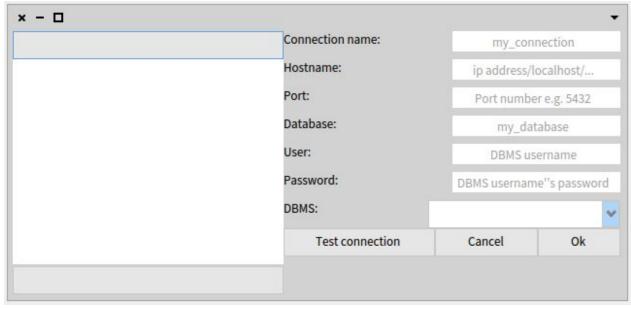




Export result

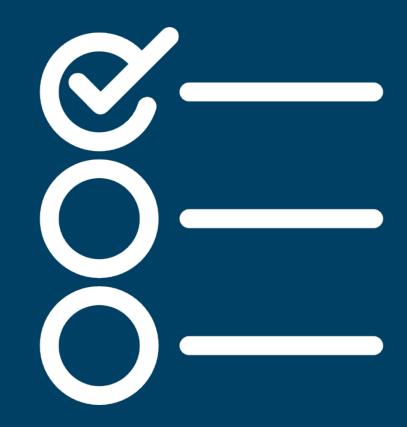




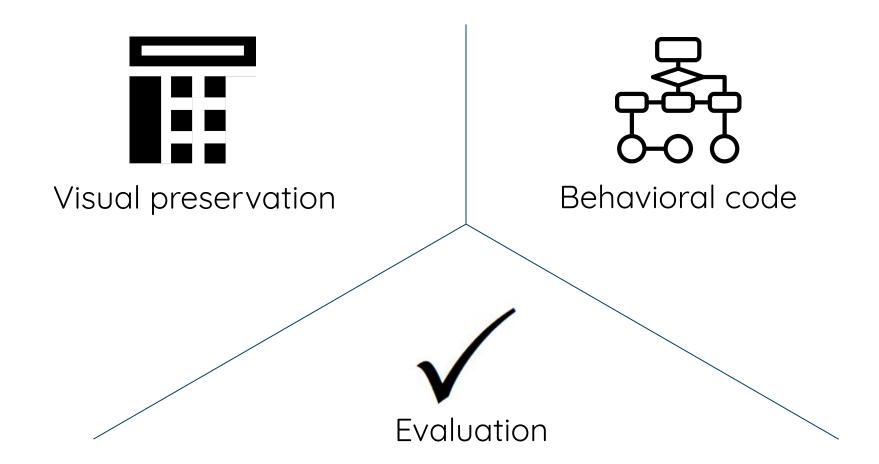




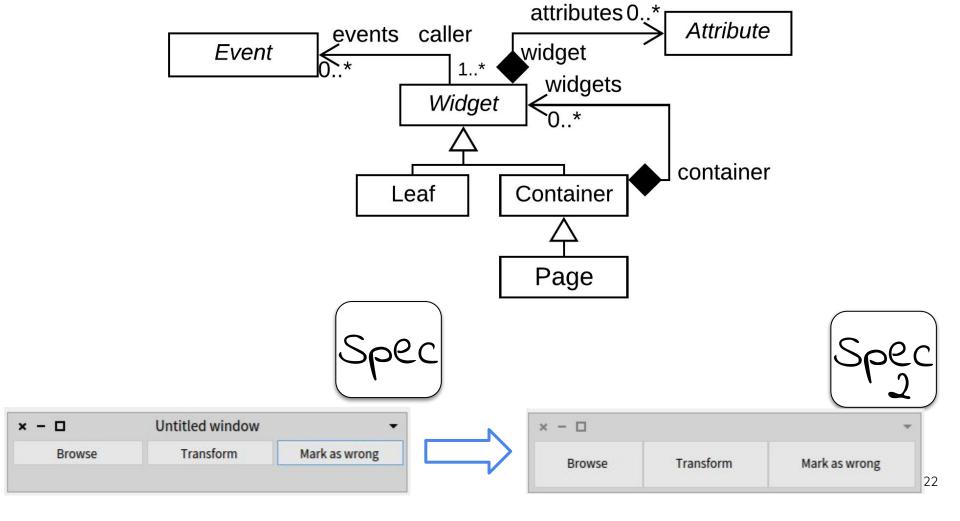
Future Works



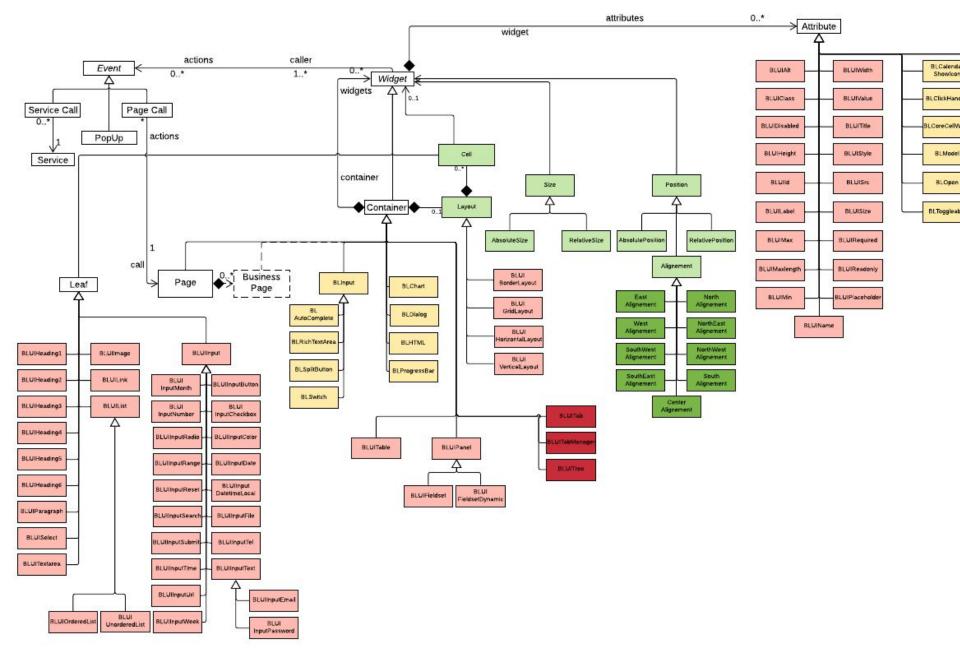
Future Works



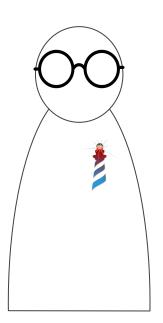
So ...



Bonus Slides



About me



PHD student

