

DEPENDENCY INJECTION – AN EXAMPLE

JAVAFX USER INTERFACES CAN BE BUILT IN TWO WAYS

PROGRAMMATICALLY

THIS IS THE TRADITIONAL WAY – MODEL, VIEW
AND CONTROLLER ARE ALL ENTIRELY IN JAVA

DECLARATIVELY

THE MODEL AND CONTROLLER ARE
STILL IN JAVA, BUT NOW THE VIEW
IS SPECIFIED IN

FXML

FXML IS A BIG DEAL

BECAUSE IT HELPS SOLVE MANY DIFFERENT ISSUES
THAT MAKE UI DEVELOPMENT MESSY

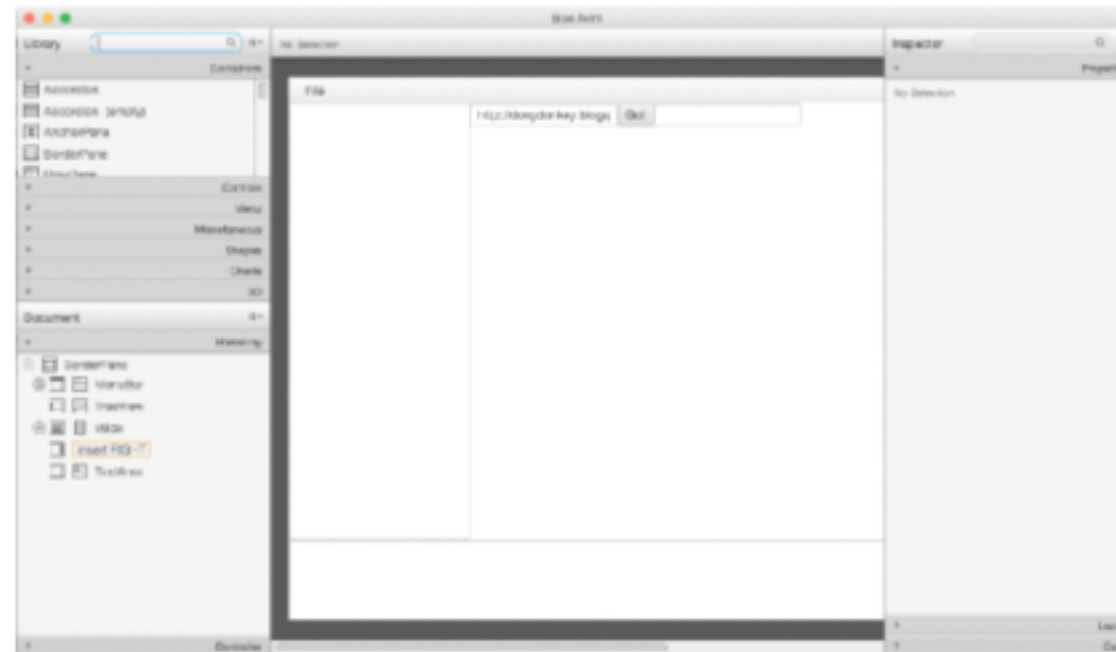
DESIGNING THE UI BECOMES REALLY QUICK AND EASY

UX DESIGNERS AND SOFTWARE ENGINEERS CAN
EACH FOCUS ON WHAT THEY DO BEST

USER INTERFACES – NOTORIOUSLY HARD TO RE-USE –
NOW BECOME MODULAR AND PLUG-AND-PLAYABLE

UI CODE BLOAT IS SUBSTANTIALLY REDUCED

IT ALLOWS JAVASCRIPT AND OTHER SCRIPTING
LANGUAGE TO BE USED SEAMLESSLY INSIDE
JAVAFX APPS



UX DESIGNER PUTS TOGETHER
A SLEEK UI – WITHOUT TOUCHING
ANY JAVA CODE AT ALL – USING
SCENE BUILDER



THE UX DESIGNER SAVES
THE UI INTO AN **FXML**
FILE



THE JAVA PROGRAMMER PICKS UP
THAT FXML FILE AND LOADS IT INTO
HIS JAVA CODE USING

FXMLLoader



THE FXML AND JAVA

MAKE ASSUMPTIONS
ABOUT EACH OTHER,
SO THE UX DESIGNER AND
THE PROGRAMMER MUST
BE IN SYNCH

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