PROPERTIES AND BINDINGS

MODEL-VIEW-CONTROLLER

PARADIGM

IS AN ARCHITECTURAL PATTERN HEAVILY USED IN JAVAFX AND SWING

ARCHITECTURAL PATTERNS, LIKE MVC, ARE POWERFUL TOOLS IN DESIGNING SOFTWARE - THEY ARE IN EFFECT 'SET PIECES' THAT ALLOW PROGRAMMERS TO AVOID STRUGGLING WITH SOLVED PROBLEMS

THE CONTROLLER KEEPS TRACK OF VARIABLES IN THE MODEL AND UI ELEMENTS IN THE VIEW..

..WHICH IT DOES BY LISTENING FOR CHANGES IN UI ELEMENTS (BUTTONS CLICKED, TEXT EDITED)...

..AND THEN REFRESHES THE VIEW IF THE MODEL HAS CHANGED, OR THE MODEL IF THE VIEW HAS CHANGED.

WOULD N'T IT BE NICE TO HAVE A WAY TO "WIRE UP" VARIABLES, SO THAT IF ONE CHANGED, THE OTHER GOT REFRESHED AUTOMATICALLY?

PROPERTIES

ΔND

BINDINGS

PROPERTIES ARE BASICALLY MEMBER VARIABLES OF CLASS THAT ANYBODY CAN "LISTEN" ON

SO IF THE PROPERTY (I.E. THE VALUE OF THE MEMBER VARIABLE CHANGES), ANY CODE THAT IS "LISTENING" WILL KNOW IMMEDIATELY

WHEN WE SAY THAT "JAVAFX SUPPORTS PROPERTIES AND BINDINGS", WHAT WE REALLY MEAN IS - BINDINGS ARE WAY TO LINK TWO PROPERTIES, SO THAT IF ONE CHANGES, THE OTHER IS UPDATED AUTOMATICALLY

VIRTUALLY ALL JAVAFX CLASSES MAKE VIRTUALLY ALL THEIR IMPORTANT MEMBER VARIABLES AVAILABLE AS

PROPERTIES

(AND PROGRAMMERS CAN BIND TO THEM AS THEY WISH TO)

STUFF WE CAN DO WITH PROPERTIES AND BINDINGS

MAKING PROPERTIES AVAILABLE
(IN CLASSES THAT WE WRITE, MAKE

MEMBER VARIABLES AVAILABLE AS PROPERTIES FOR OTHER CLASSES TO USE)

USING PROPERTIES OF OTHER CLASSES

(LISTEN IN ON PROPERTIES OF OTHER CLASSES, SO THAT WE HANDLE EVENTS IN AN EFFICIENT AND GRANULAR MANNER)

BINDING PROPERTIES TO EACH OTHER

(WIRE UP DIFFERENT PROPERTIES OF DIFFERENT OBJECTS SO THAT CHANGES IN ONE REFLECT IN THE OTHER)