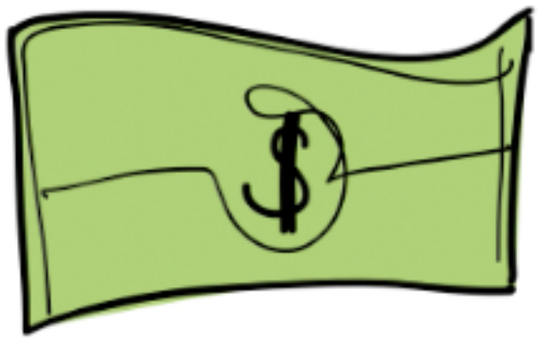
THE OBSERVER PATTERN

OBJECT A



DEPENDS ON

OBJECT B

MY ELECTRICITY BILL

THE WEATHER

LET'S SAY WE HAVE RUN A REGRESSION MODEL AND OBSERVED SOME RELATIONSHIP LIKE THIS BETWEEN THE TWO

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ELECTRIC_BILL = 100 + 2.8*MATH.LOG(AVG_TEMP)
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WE ARE TRACKING TEMPERATURE,
AND WANTED OUR BILL TO UPDATE AS THE WEATHER CHANGED

WE STORE THE TEMPERATURE
IN SOME VARIABLE THAT ANNOUNCES
CHANGES IN ITS VALUE

PROPERTY

AND STORE THE ELECTRIC BILL IN ANOTHER VARIABLE
THAT WOULD KEEP A EAR OUT FOR CHANGES IN THE
TEMPERATURE VARIABLE

LISTENER

BINDING

THEN THE TEMPERATURE AND THE
ELECTRIC BILL ARE LINKED - EACH TIME
THE TEMPERATURE CHANGED, THE
ELECTRIC BILL WOULD CHANGE TOO

OBJECTS THAT "PUBLISH" THESE UPDATES ARE CALLED

PUBLISHERS

A BUTTON

OBJECTS THAT "SUBSCRIBE" TO "LISTEN" TO THESE UPDATES ARE CALLED

SUBSCRIBERS

YOUR UI APP

THE CODE THAT GETS EXECUTED WHEN AN UPDATE IS PUBLISHED IS CALLED

THE CALLBACK

"DISPLAY A POPUP WHEN THE BUTTON IS CLICKED"

PUBLISHERS ANNOUNCE DIFFERENT TYPES OF UPDATES - EACH OF WHICH IS REFERRED TO AS

AN EVENT

BUTTON CLICK, HOVER,...

THE TERM CALLBACK REFERS TO THE FACT THAT THIS CODE "BELONGS" TO THE SUBSCRIBER OBJECT

BUT IS CALLED BY THE PUBLISHER OBJECT WHEN THE EVENT OCCURS