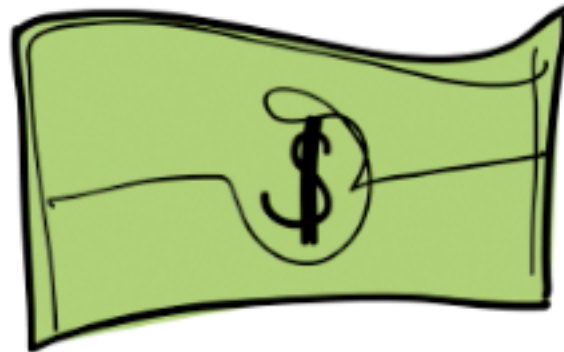


THE OBSERVER PATTERN

OBJECT A



MY ELECTRICITY BILL

OBJECT B



THE WEATHER

DEPENDS ON

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

$$\text{ELECTRIC_BILL} = 100 + 2.8 * \text{MATH.LOG}(\text{AVG_TEMP})$$

**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

"DISPLAY A POPUP
WHEN THE BUTTON
IS CLICKED"

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

THE CALLBACK

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

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

SUBSCRIBERS

YOUR UI APP

BUT IS CALLED BY THE PUBLISHER
OBJECT WHEN THE EVENT OCCURS