

## ZURICH REAL ESTATE APP

A SHINY APP FOR THE ZURICH REAL ESTATE MARKET

MAX GRÜTTER
STATISTICAL OFFICE OF THE CANTON OF ZURICH

## ZURICH REAL ESTATE DATA

A UNIQUE AND COMPLETE DATASET, WHICH YOU YOU CAN FIND ON OUR HOMEPAGE:

STATISTIK.ZH.CH/IMMOMARKT

THE TOOLS NO LONGER
MEET THE NEEDS OF OUR
CUSTOMERS



## ZHRE APP: CONCEPT

#### SHINY UI

fluidPage with sidebarLayout and fluidRow
Control widgets:
sliderInput, slectInput, bookmarkButton
Reset with actionButton and shinyjs
conditionalPanel
tabsetPanel



filter, mutate, render



#### **SHINY SERVER**

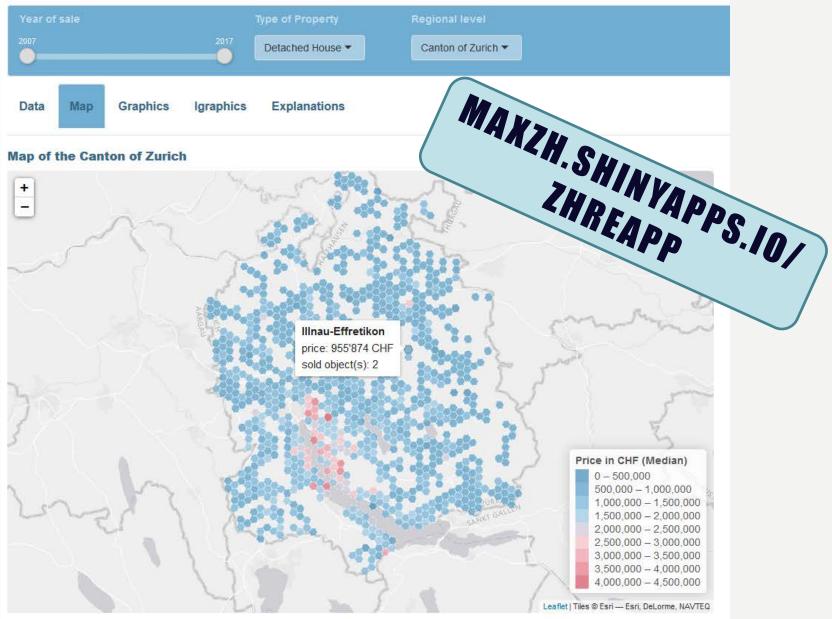
reactive({})
dplyr::filter
distrr::dcc6
leaflet
gplot2
plotly





#### Zurich RealEstateApp





### ZHRE APP: SOLVED CHALLENGES

```
DATA PROTECTION
           hexagon instead of exact coordinates
ONE APP FOR THREE STATISTIC
          conditionalPanel()
GREAT FLEXIBILITY OF THE QUERY
          full Dataset & distrr::dcc6
DOWNLOAD OF CALCULATED DATA AND GRAPHS
          reactive({}) & downloadHandler()
VISUALISATION IN A MAP
          reactive({}) & leaflet()
WARNING IF NUMBER OF OBSERVATION IS TO LOW
     \rightarrow
          modalDialog()
```

## ZHRE APP: PENDING CHALLENGES

#### USABILITY ON MOBILE DEVICES

- is there a solution without compromising flexibility NO REDRAWING OF THE MAP IF FILTERS ARE CHANGED
- should be possible with leafletProxy()

#### SELECTION WITHIN THE MAP

- should be possible with crosstalk()
- DOWNLOAD THE DATA AS FORMATTED EXCEL INCLUDING FILTERSETTINGS
  - → work in progress. I've already tried a lot.....

#### SCALABILITY: ONE APP FOR MANY USERS

this becomes important as soon as we make the appavailable to our customers

# Thank You!

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MAX.GRUETTER @ S T A T I S T I K . J I . Z H . C H















