

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 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

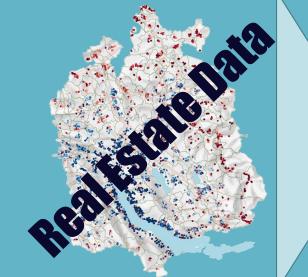


filter, mutate, render



SHINY SERVER

reactive({})
dplyr::filter
distrr::dcc6
leaflet
ggplot2
plotly







Kanton Zürich Statistisches Amt Zurich RealEstateApp





Number of sales and prices in CHF

≛ Download

Year	Number of Observations	Price (Mean)	Price (sd)	Price (Q1)	Price (Median)	Price (Q3)
TOTAL	19'000	1'147'000	629'000	764'000	972'000	1'328'000
2007	1'715	946'000	543'000	645'000	801'000	1'039'000
2008	1'685	966'000	555'000	667'000	815'000	1'063'000
2009	1'818	989'000	510'000	694'000	863'000	1'131'000
2010	1'863	1'077'000	607'000	734'000	901'000	1'229'000
2011	1'752	1'122'000	647'000	753'000	939'000	1'284'000
2012	1'715	1'183'000	611'000	803'000	1'018'000	1'376'000
2013	1'567	1'224'000	675'000	810'000	1'040'000	1'401'000
2014	1'673	1'221'000	621'000	834'000	1'064'000	113811000
2015	1'803	1'268'000	625'000	874'000	1'118'000	1'448'000
2016	1'761	1'281'000	662'000	870'000	1'110'000	1'470'000
2017	1'648	1'361'000	695'000	915'000	1'187'000	1'549'000

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ZHRE APP: SOLVED CHALLENGES

ONE APP FOR THREE STATISTICS

→ conditionalPanel()

DATA PROTECTION

hexagon instead of exact coordinates

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

→ modalDialog()

ZHRE APP: PENDING CHALLENGES

DOWNLOAD THE DATA AS FORMATTED EXCEL INCLUDING FILTERSETTINGS

→ work in progress. I've already tried a lot.....

USABILITY ON MOBILE DEVICES

is there a solution without compromising flexibility

SCALABILITY: ONE APP FOR MANY USERS

this becomes important as soon as we make the app available to our customers

NO REDRAWING OF THE MAP IF FILTERS ARE CHANGED

→ should be possible with leafletProxy()

SELECTION WITHIN THE MAP

→ should be possible with crosstalk()

Thank you!

TRY OUT & PLAY
YOURSELF:
MAXZH.SHINYAPPS.IO/ZHREAPP
FIND THE CODE OFF THE APP

ON MY GITHUB ACCOUNT: GITHUB.COM/MXGRTTR/ZHREAPP

KEEP IN TOUCH:

@ M A X G R U E T T E R

M A X . G R U E T T E R

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















