Kanton Zürich
Statistisches Amt

ZURICH REAL ESTATE APP

A SHINY APP FOR THE ZURICH REAL ESTATE MARKET

ERUM 2018, MAY 21 2018

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

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Zurich RealEstateApp

Reset inputs | Bookmark this APP state

Land Characteristics

Location Quality (min): very moderate
Location Quality (max): very good

Distance to Zurich city centre (in km): 0 – 35

Distance to Lake Zurich (in m): 0 – 5'000

Land area (in sqm): 50 – 5'000

House or Apartment Characteristics

Number of rooms (min): 1 room
Number of Rooms (max): 7+ rooms

Living space in sqm: 0 – 500

Construction year: after 1900 | 1900 – 2017

Year of sale: 2007 – 2017

Type of Property: Detached House

Regional level: Canton of Zurich

Data | Map | Graphics | Igraphics | Explanations

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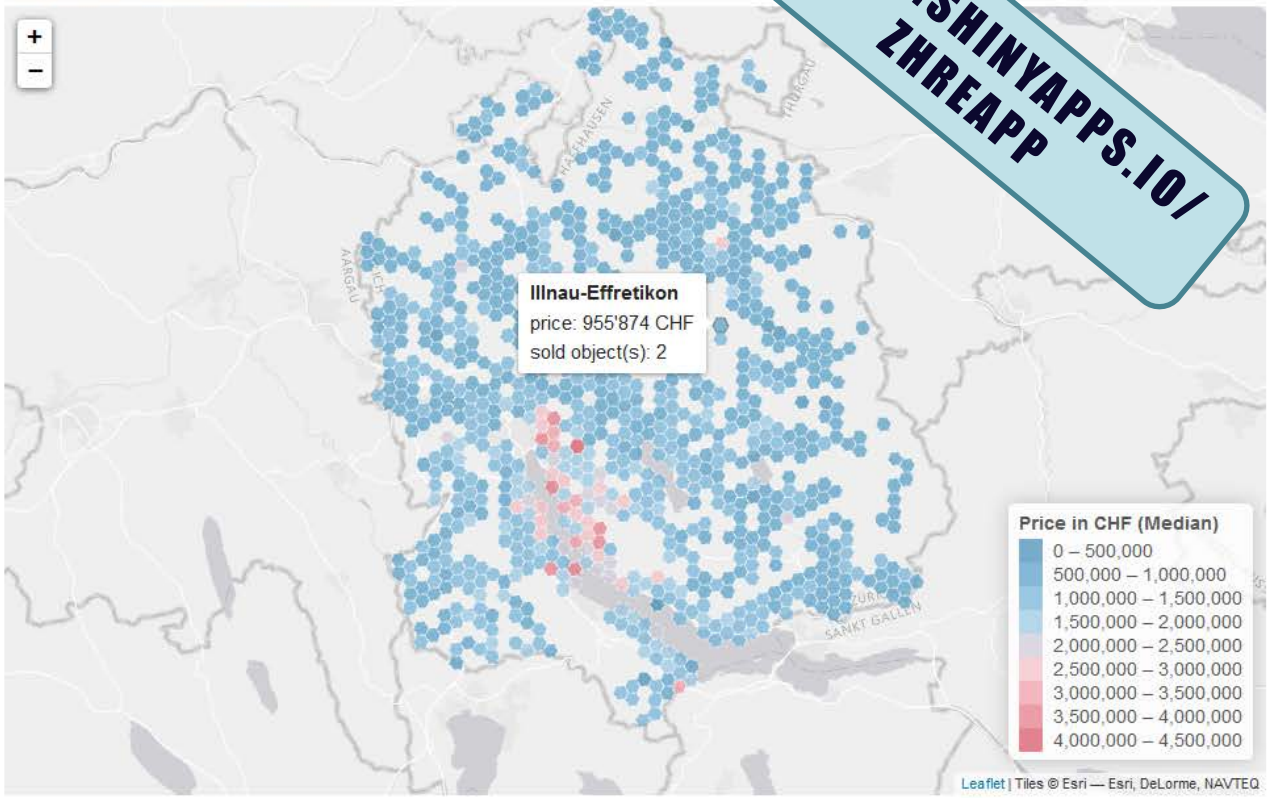
Map of the Canton of Zurich



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

→ modalDialog()

ZHRE APP: PENDING CHALLENGES

USABILITY ON MOBILE DEVICES

→ 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 DATA AS 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 app available to our customers

Thank you!

TRY OUT & PLAY YOURSELF:
MAXZH.SHINYAPPS.IO/ZHREAPP

FIND THE CODE OFF THE APP ON MY GITHUB ACCOUNT:
GITHUB.COM/MXGRTTR/ZHREAPP

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