# **Personal Projects**

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### Motto for this talk:

# What can you do when you're retired...

...anything you want

## **Topics**

Having a personal presence on the web

An abundance of data via API's

My current deep dive into the Apple Health Export

# Having a Presence on the Web

# Why?

"Publication precipitates reality." -- Lila Freedman, former editor of the Yale Blue Book

My blog: johngoldin.com

#### Feeling part of a larger world

- Google American walker in Britain
- Google "Apple Health Export"

Professional visibility (not so relevant for a retiree, and maybe a risk for others)

**Caveats:** 

# Publishing to the Web

I've created some notes to accompany this talk. They are available at

https://goldin-projects-2021.netlify.app/

The notes point you to a video by Alison Hill & Desirée De Leon that describe a number of ways to use RMarkdown to publish to the web. The first and simplest technique was used to create the notes page.

- 1. Knit an RMarkdown document
- 2. Sign into Netlify.com
- 3. Drag the folder containing the project onto the deploy page in Netlify

When first deployed, Netlify creates an arbitray name for the URL. But I have the option to change it, provided I can supply a name that hasn't already been used.

There are lots of other ways to have a presence on the Web, such as LinkedIn, Twitter, Instagram, Flickr, and so on.

## Where To Find Some Data

## Getting data via web API's

Connecticut and CDC Covid-19 data (via RSocrata)

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# An API is much easier to use if there is an R package that manages it

Some examples:

US Census: tidycensus and tigris

Twitter: twitteR or rtweet

FRED economic stats: fredr

More links in the notes at goldin-projects-2021.netlify.app

I don't need no stinkin' guvment databases to satisfy my data anlysis habit.

I've got almost three million rows of data in my pocket!

I did a blog post last winter describes how to export Apple Health Export and load it into R.

# What's in the Apple Health Export dataset?

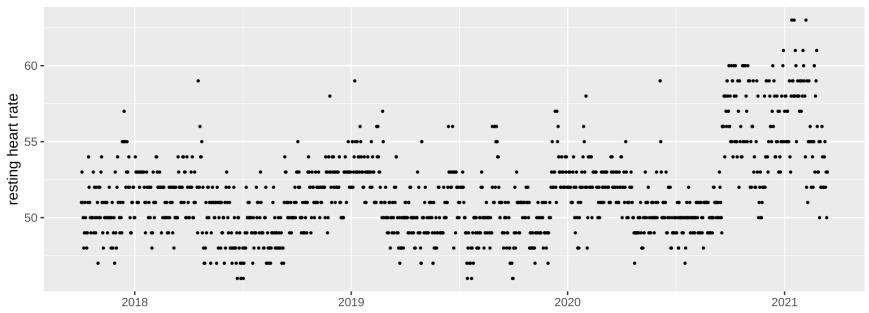
Frequency Data by Category

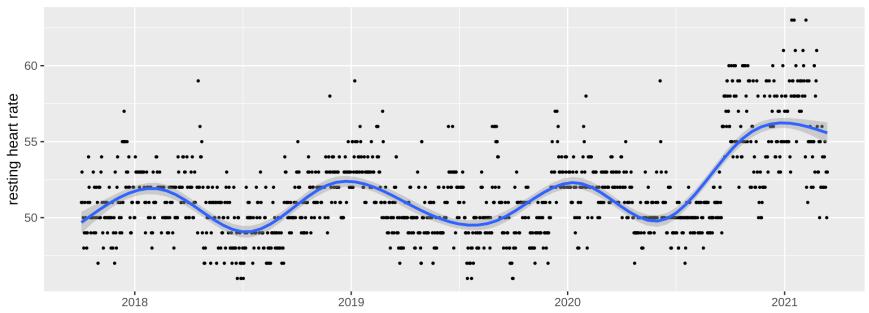
category	n	percent
Energy	1,483,322	49.600%
Heart Rate	514,203	17.200%
Distance	417,707	14.000%
Steps	240,152	8.000%
Exercise	190,119	6.400%
Dietary	72,541	2.400%
Mobility	25,497	0.900%
Audio	24,593	0.800%
Blood Pressure	8,688	0.300%
Sleep	5,978	0.200%

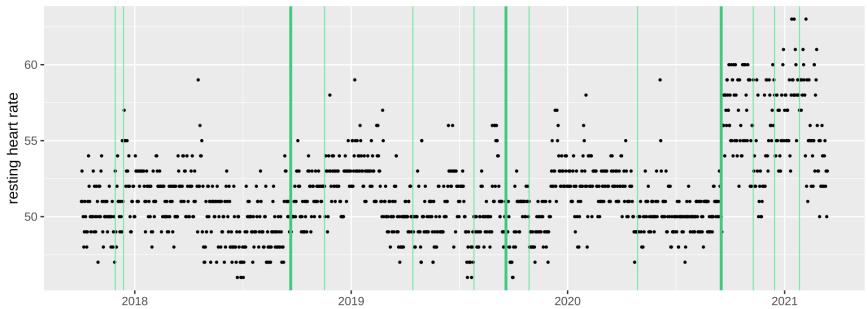
Frequency Data by Category

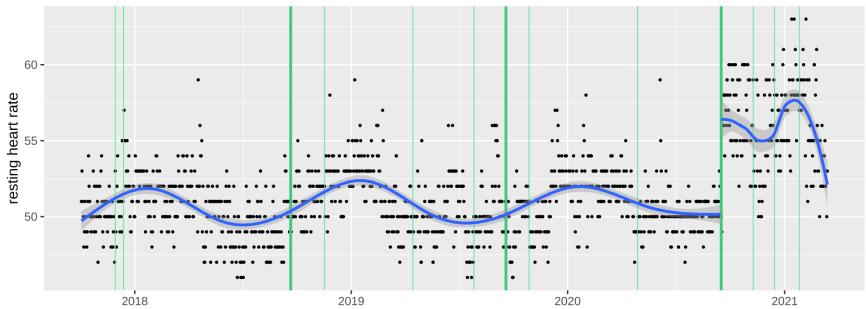
	category	n	percent
11	Oxygen Saturation	2,962	0.100%
12	Resting Heart Rate	1,318	0.000%
13	Body Metric	659	0.000%
14	VO2Max	489	0.000%
15	Mindful	145	0.000%
16	Symptoms	2	0.000%
17	Times Fallen	2	0.000%
18	ECG	1	0.000%
19	Unknown	1	0.000%

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### Estimated VO2 Max

