



RESO®

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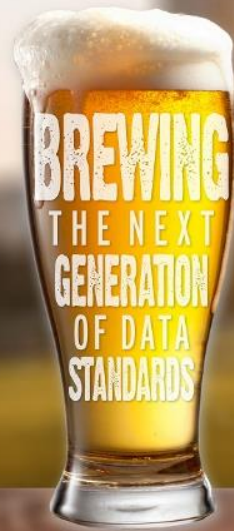
REFLECTING ON  
THE PAST

LOOKING TOWARD  
THE BEAUTIFUL  
FUTURE

20

2018 FALL CONFERENCE

OCTOBER 15-18, 2018 • THE PFISTER HOTEL • MILWAUKEE, WI



Photograph: WEST Milwaukee and Block of Cheese

## RESO's GitHub Launch with new WebAPI Adapter

Robert Gottesman / Joshua Darnell

# Robert Gottesman, Product Mgr



Robert Gottesman is President of Voyager Information Services, a consulting firm specializing in real estate information systems.

Bob has also served as Executive Director for the Real Estate Standards Organization (RESO), CIO of the mortgage bank and Co-Founder and Vice President of CITIDATA, an early provider of on-line Multiple Listing real estate systems.

Bob's current work includes contracting with RESO, assisting with management of the Data Dictionary and GitHub projects.

Bob can be reached at [bobg@voyinfo.com](mailto:bobg@voyinfo.com)

# What is Git / GitHub?

## → Git

- ◆ Git is a Version Control System (VCS)
- ◆ Git helps teams manage their project files



## → GitHub

- ◆ GitHub is a web-based service for VCS
- ◆ Basically, it is a social networking site for developers



# GitHub, Where Else?

*GitHub is well established repository Infrastructure used world-wide*

- 67 million repositories
- 24 million developers
- 337 programming languages
- 200 countries
- 1 billion+ submissions (2016+)



Source: <https://octoverse.github.com>

# Building a RESO GitHub Community

- ★ Make RESO the Path of Least Resistance
- ★ Transition from RETS to Web API
- ★ Make Life 'Easy' for Developers
  - *Common Layouts*
  - *Multi Language Implementations*
  - *Public Comments, Issues & Bug Tracking*



# Building Content for RESO GitHub

- Web API Clients
  - *.Net, PHP, Java Python*
- Web API Adapter
- Universal Property Identifier
- *... More to Come! ...*



# RESO ⇒ Repositories ⇒ Consistency

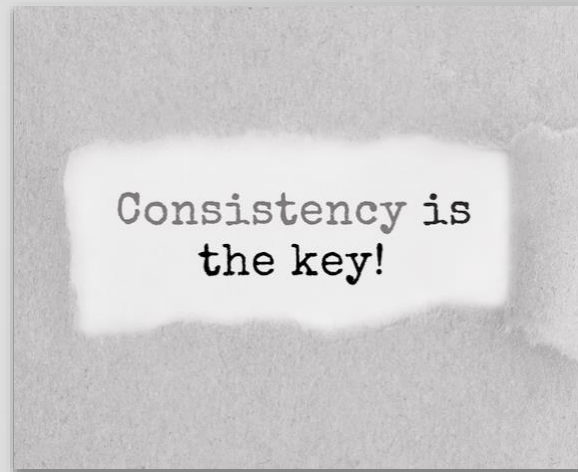
## ★ Common Naming

- *RESO-WebAPI-Client-PHP*
- *RESO-UniversalProperty Identifier-Builder-dotNet*

## ★ Templates for all .MD Files

## ★ File/Folder Naming & Placement

*“It’s not good enough just to slap some code up in the cloud”*



# Repository Maintenance

## ★ Branches, Pull Requests & Releases

- Conform to GitHub 'Norms'

## ★ Contributions (*Easy but Managed*)

- RESO / Known Entities (#1)
- Active Community
- Public



*“But I only changed one line of code!”*



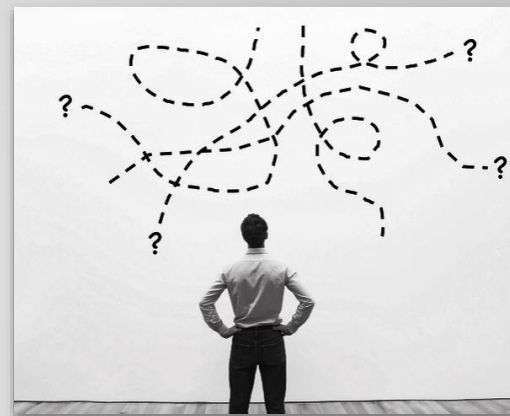
# Repository Support & Issues

## ★ GitHub Issue Page(s)

- GitHub Issue Tracking as a Forum
- Provides a 'Pulse' on the Project
- Replace older "Mailing List"

## ★ RESO Developers FAQ

- <https://www.reso.org/developer-faqs/>



*“With Volunteers, What do you Expect?”*



## Developer FAQ: Working with GitHub

- RESO GitHub Repository Organization
- What is GitHub?
- Starting place to get acquainted with all of GitHub features
- More resources to get you going in Git and GitHub
- A list of some Git and GitHub specific terms used across Git and GitHub
- Forking a repository
- How to copy remote repository to your local machine
- Proposing changes to a repository with 'pull' requests
- Posting and following issues found in GitHub repositories

### RESO GitHub Repository Organization

#### Overview

This document provides general guidelines and recommendations for the RESO GitHub repositories, its management, and use. Specifically, the intent is to provide a set of recommended code repository governance principles based on the industries best practices and observed GitHub related rules-of-thumb.

The RESO GitHub repositories can be found at: RESOStandards

#### Repository Naming

A proper repository name is the first key component for users to find the repository, either using the GitHub.com's search functionality or using search engines, such as Google. The recommended format is a product/code keyword set, separated by hyphens (-):

MLS DATA ACCESS

MARKETING TOOLKIT

ASSOCIATION/MLS EXECUTIVES

REAL ESTATE BROKERS

TECHNOLOGY EXPERTS INFORMATION

DEVELOPER FAQS

ORGANIZATIONAL UNIQUE ID API

RESO BEST PRACTICES

CASE STUDIES

RESO NEWSROOM

GLOSSARY

Develop

All Devel

New to R

Working i

Working i

Making R

Conversic

RESO Op

Join a F

Name\*

Email\*

Telephone\*

Company/Organization\*

# RESO Developers FAQ

<https://www.reso.org/>



<https://github.com/RESOStandards>

# RESO GitHub Governance

## ★ Roles

- RESO, Authors & Committers
  - *Meritocracy Management*
  - *Benevolent Dictators*
- Contributors
- Public

## ★ Responsive, Polite & Open Minded

- Transparency is *'King'*





**GitHub**

# What's Next?

## Joshua Darnell, Software Engineer



Josh is the Founder & CEO of kurotek, a consultancy specializing in Real Estate technology. He started at Homeseekers on the XMLSWeb product in the late 90's, and got involved with RETS while at Heartland MLS. He laid low in the industry for a few years, working as a Bioinformatics researcher and consultant while studying Computer Science and Engineering at UC San Diego, but returned to the Industry and Standards full time working at FBS a while back. He recently co-authored the Validation Expressions proposal (RCP-019) with Paul Stusiak.

Josh lives in San Francisco and attends UC Berkeley, studying AI/ML and Data Science. Lately he's been working as a consultant on Data Replication, Business Rules, and ML backends, as well as building tools for RESO.

## RESO WebAPI Adapter Outline

- Origin and Motivation, and the RESOScript File.
- Discuss Stack - JavaFX Desktop App + Olingo 4.5.0 + RESO Web API Java Client (for now). Why Desktop? Main Requirements:
  - Cross-platform. Java 8+ works on Windows, Mac, Linux.
  - Primarily to make it easy for those already working with Desktop Tools to transition to the Web API. Also, for Local Job Scheduling Workflows (with threads, when applicable).
- Demo of *Settings, Saved Searches, Metadata Viewer, Scheduled Tasks, Export Formats*. Discussion of Release Schedule and Future Features: CLI options? Interactive Service? Now taking requests!
- Look for Release Binary Announcement from Jeremy in coming weeks, code on RESO Github after Initial Release/QA Phase.

**THANK YOU!**  
COMMENTS OR QUESTIONS?



Cheers!

## SOCIAL MEDIA

Follow us and see what's happening on our social media sites!  
Real Estate Standards Organization, #RESOStandards,  
@RESOStandards & RESO!

*(Please feel free to make this page your own or use it for presentation,  
does not have to be social media.)*

Use the conference hashtag #RESO18

