



# 4D User Group

August 14, 2024



Meeting #73

# Agenda



1. About 4DMethod
2. Upcoming user group presentations
3. Happy Hour Review - Kirk Brooks
4. 4D News - Ricardo Mello
5. 4D Blog Highlights
6. Of Note in the Knowledge Base
7. Special topic: Full Database Insight Through the Lens of a Single Method – Bruno Raeymaekers

# Welcome



## Brent Raymond



### 4D User Group

[4dmethod.com](http://4dmethod.com)

[4dmethod@gmail.com](mailto:4dmethod@gmail.com)



## 4D User Group

- Bring together a scattered community of developers and users
- Share new programming techniques
- See where 4D is deployed in the world
- Find 4D development support
- What can be done with 4D?! Great Ideas!

This is Your 4D Support Community!





# Be a Presenter



This is your group!  
Show off your application, your product, or just  
some things you've been working on.

\*October 2 - Automating 4D deployments using  
Gitlab CI/CD Pipelines – James Scott and Jeff Kain



<http://4dmethod.com/schedule/>



# What about you?!

2024 open dates:  
November 20

Or... record a short demo to  
share on 4DMethod



<http://4dmethod.com/schedule/>





# Happy Hour 4D on Tap



- Connect on Zoom Friday afternoons, 3:30 PDT (90 min - 2 hours + depending on the discussion and interest)
- Very informal, not all about 4D but mostly
- Much screen sharing, first hand look at dev
- BYOP (Bring Your Own Problem) you serve the problem and keep all the tips!

[4dhappyhour.com](http://4dhappyhour.com)





Ricardo Mello

VP of Inside Sales and Marketing at 4D

4D VP of Marketing

[Ricardo.Mello@4d.com](mailto:Ricardo.Mello@4d.com)





# 19.8 Released

4D 19 support and sales discontinued on July 12th.

LAST  
CALL

<https://developer.4d.com/docs/19/Notes/updates#4d-198>



Thursday, July 18th

\* New format with live code demos

<https://www.youtube.com/watch?v=DeAYwMAUfIc>





# 20 R5 Released

- New Package manager to handle components through a dependencies.json file.
- Support of Try...Catch...End try error handling structures.
- QUIC network layer now supports broadcasting, SSO, and IPv6.
- Support of restricted entity selections.
- Support of shared classes and singleton classes. New Class properties: isShared, isSingleton, me.
- Support for initializing a class property in its declaration line.
- Visual structure editor information is now stored separately from table definition information to reduce conflicts in the catalog file.  
catalog\_editor.json



<https://blog.4d.com/en-whats-new-in-4d-20-r5/>



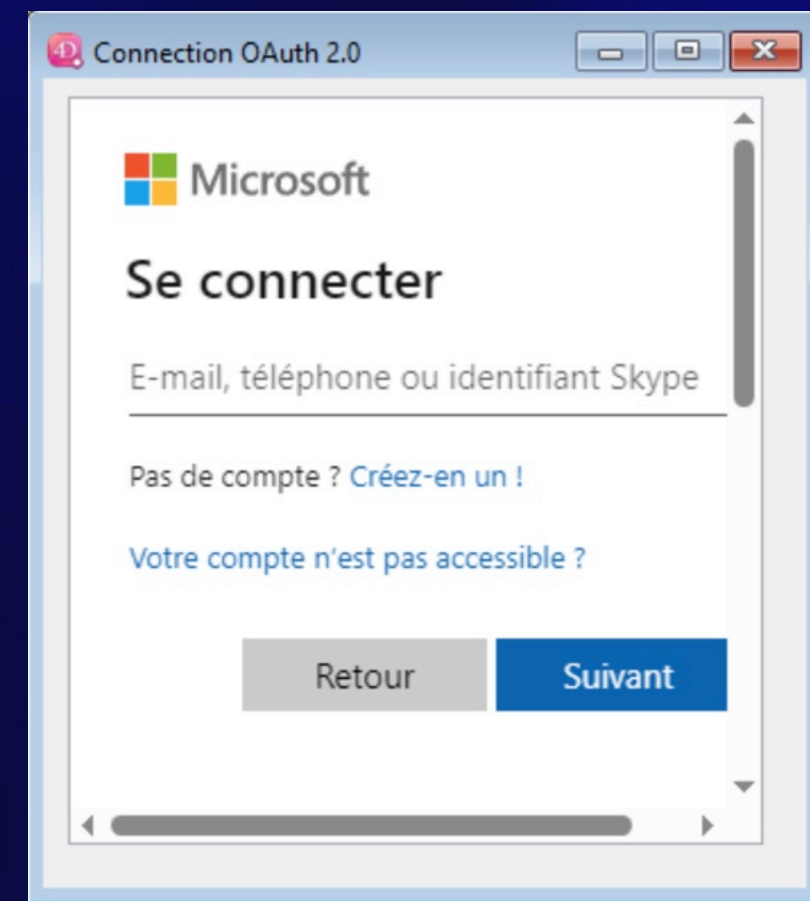


# 4D Blog Highlights

<https://blog.4d.com>



- > Managing HTTP Requests with HTTP Agents (4D.HTTPAgent, keep alive, timeout)
- > Enhanced Session Storage Access (Session storage by id)
- > Using Classes Across Components
- > 4D Netkit: Customizing OAuth 2.0 Connection Interface

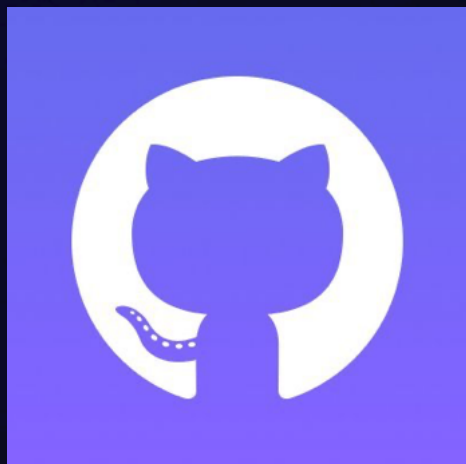


# 4D Blog Highlights

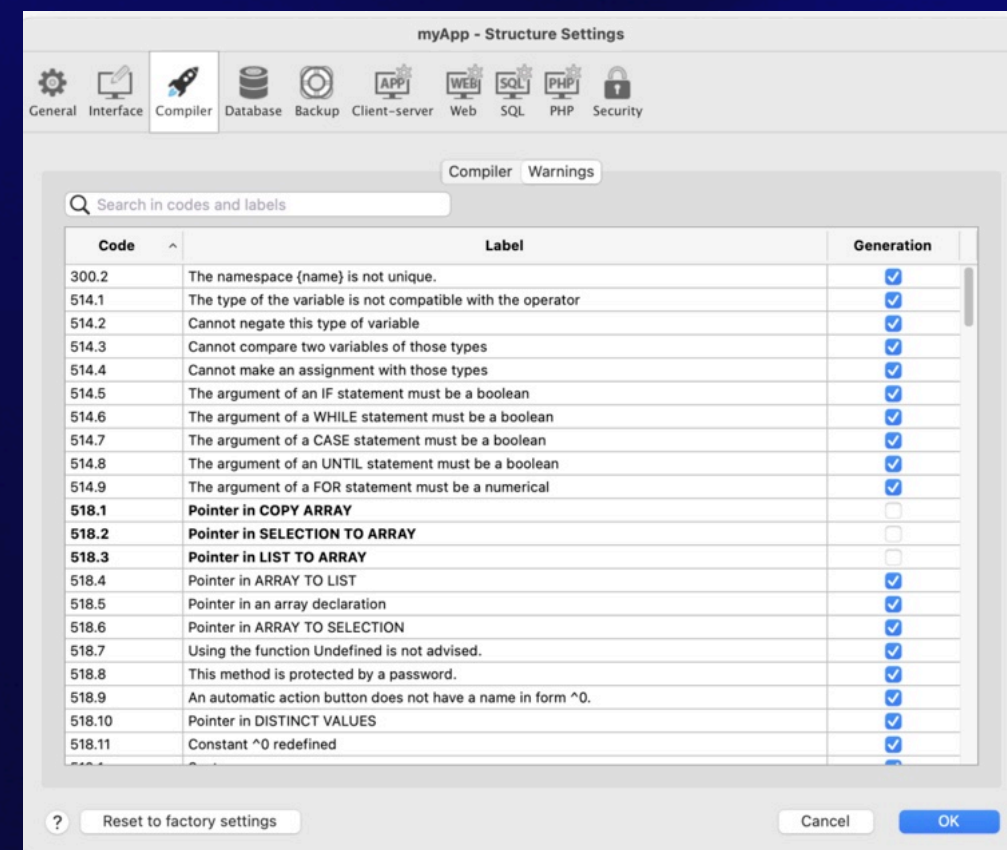
<https://blog.4d.com>



- > Easy Reference Comparison of Objects & Collections (comparing object references with = and #, find in array, .query)
- > Integrate 4D Components Directly from GitHub
- > Customize Global Warnings Generation



```
{
  "dependencies": {
    "myComponent": {
      "github": "anyAccount/myComponent",
      "version": "2.1.3"
    }
  }
}
```





# Of Note in the Knowledge Base

## Add Komoncharoensiri



- Evaluation Technical-Debt of the 4D Thomas Schlumberger  
<https://kb.4d.com/assetid=79481>



**parsing methods**

*Methods\_Statistics v1.0*

- ☒ Count C\_xxx
- ☒ Count Interprocess var and array
- ☒ Count #DECLARE
- ☒ Count var declaration
- ☒ Count Class Functions
- ☒ Count old deprecated commands
- ☒ Show Progress bar
- ☐ Structure Error Handler

☐ Replace old possible code

Create result file

Process methods

Version 4D: 20.3 LTS (102255), Project mode.  
7608: Total parsed methods

11058: Total counted C\_xxx  
58: Total detected interprocess  
376: Total #DECLARE lines  
2172: Total var declaration lines  
1519: Total Class Functions

1: Total Class singleton shared  
0: Total Class singleton (not shared)

singleton Classes checked and reported starting with 20 R5





# Special Topic: Full Database Insight Through the Lens of a Single Method



**Bruno Raeymaekers**

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# Questions?



# Wrap Up

Other questions?

Discussion

Feedback is appreciated



<https://www.patreon.com/4dmethod>