4D method

4D & Wakanda User Group

May 24, 2017







Agenda

- I. About 4DMethod
- 2. 4D News, Jim Sobczak
- 3. Wakanda News, Ricardo Mello
- 4. The 4D iNUG E-Digest, Ed Hammond
- 5. Hey 4D! Brent Raymond
- 6. Special topic: Going 4D Mobile at AIC, Xiang Liu and Brent Raymond
- 7. General Q & A
- 8. Next Meeting July 12, 2017

Welcome



Brent Raymond

4DMethod 4D & Wakanda User Group

4dmethod.com
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4DMethod

4D & Wakanda User Group

- Bring together a scattered community of developers and users
- Stream meetings via YouTube Live to allow people to participate from anywhere
- Record meetings and presentations to be viewed again or shared with others
- Provide fresh new content and exposure for users and developers everywhere

4DMethod News

Demo: Simple Code Execution Dialog

How to create a very simple code execution dialog in 4D using 4D Transformation Tags and Process 4D Tags.

Warning! Be sure to understand the security implications of allowing such functionality!



https://youtu.be/oErsVQ7IKRY



4DMethod News

Thank you to our latest contributor at the Mitarbeiter level...

Dan Gallagher from Chicago, IL

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

4D News



Jim Sobczak

VP of Sales & Services for 4D, Inc.

OEM Manager

jsobczak@4d.com



4D v16.1 released



- Released May 3, 2017
- Latest bug fixes
- Open SSL library upgrade to version 1.0.2k.

http://www.4d.com/downloads/products.html

4D News

Source code sharing of internal 4D components with 4D Partners



4D Write Pro Interface, 4D Quick Report dialog, 4D Pop (constants editor!), SVG Area, 4D Progress, 4D SVG, 4D Widgets (DatePicker, TimePicker, SearchPicker)

Wakanda News



Ricardo Mello

Chief Commercial Officer

Wakanda.io

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https://www.linkedin.com/in/ ricardodemello



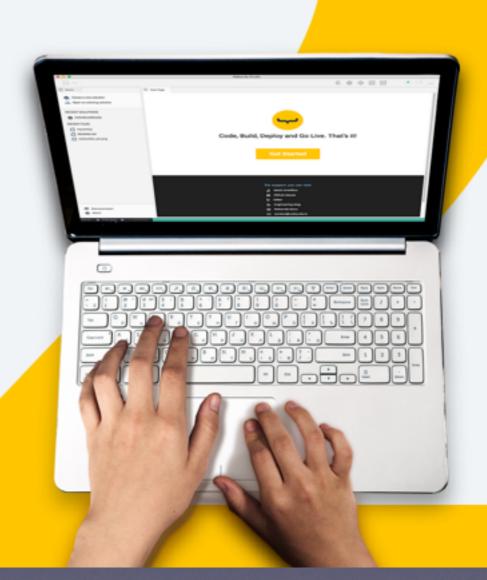
Wakanda 2.0



Community Edition v2.0.0

Full-stack JavaScript Platform with IDE for your Web, Hybrid or Native Apps

www.wakanda.io



Wakanda 2.0

- NodeJS Support Nodeworker API to benefit from the huge NodeJS ecosystem.
- JavaScript Abstraction Layer is now extended to web services too
- New ODBC Connector Connect to MSSQL or any other DBs through the new connector - Data Model is autogenerated in a JavaScript Abstract Layer.

The 4D iNUG E-Digest Ed Hammond



- Wide breadth of topics and 4D tech issues
- Take advantage of a wealth of 4D experience and knowledge
- Check out http://4dmethod.com/e-digests/ for a list of recent topics being discussed in the iNUG
- To register:
 http://lists.4d.com/mailman/listinfo
- All discussion accessible online at: http://4d.1045681.n5.nabble.com

Hey 4D!

We can currently pull an array of objects...

SELECTION TO ARRAY (myObjectField; myObjectArray)

And even grab a selection of records/ fields as JSON

\$tJSON:=Selection to JSON(myTable;template)

How the ability to pass a template of requested attributes to S2JSON?

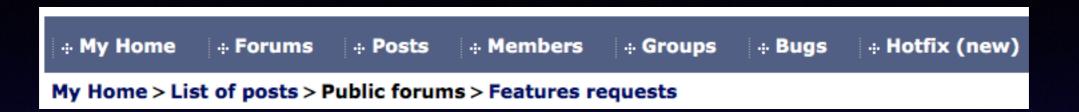
\$tJSON:=Selection to JSON(myObjectField;template)



It'd be a lot cooler if you did...

Bonus points: Return as array of objects;)

Feature Requests/Voting



http://forums.4d.fr/Forum/EN/1075213/0/0

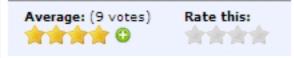
Voting on a feature request is accommplished by using the star rating system on the original post for that particular feature.



The star rating system has 4 options:

- 1 = Bad
- 2 = Average
- 3 = Good
- 4 = Excellent

Select the number of stars you feel the feature rquest deserves to cast your vote:



Special Topic: Going 4D Mobile at the Art Institute of Chicago

Xiang Liu and Brent Raymond

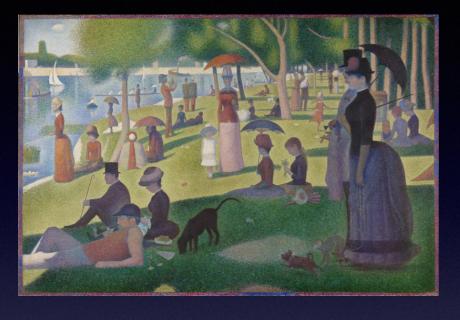
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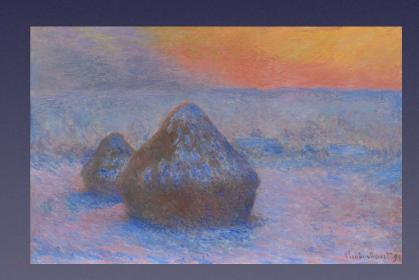








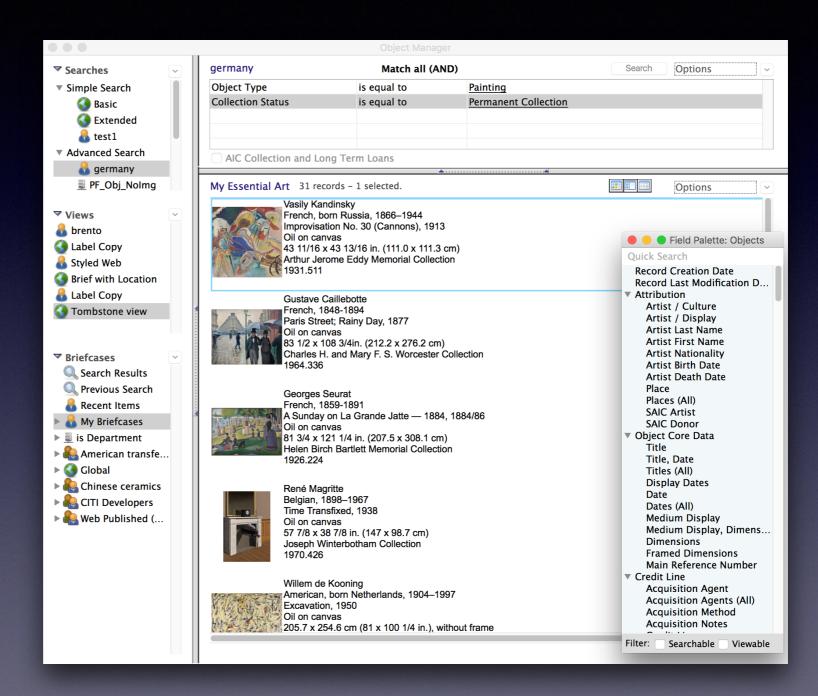
ART INSTITVTE CHICAGO



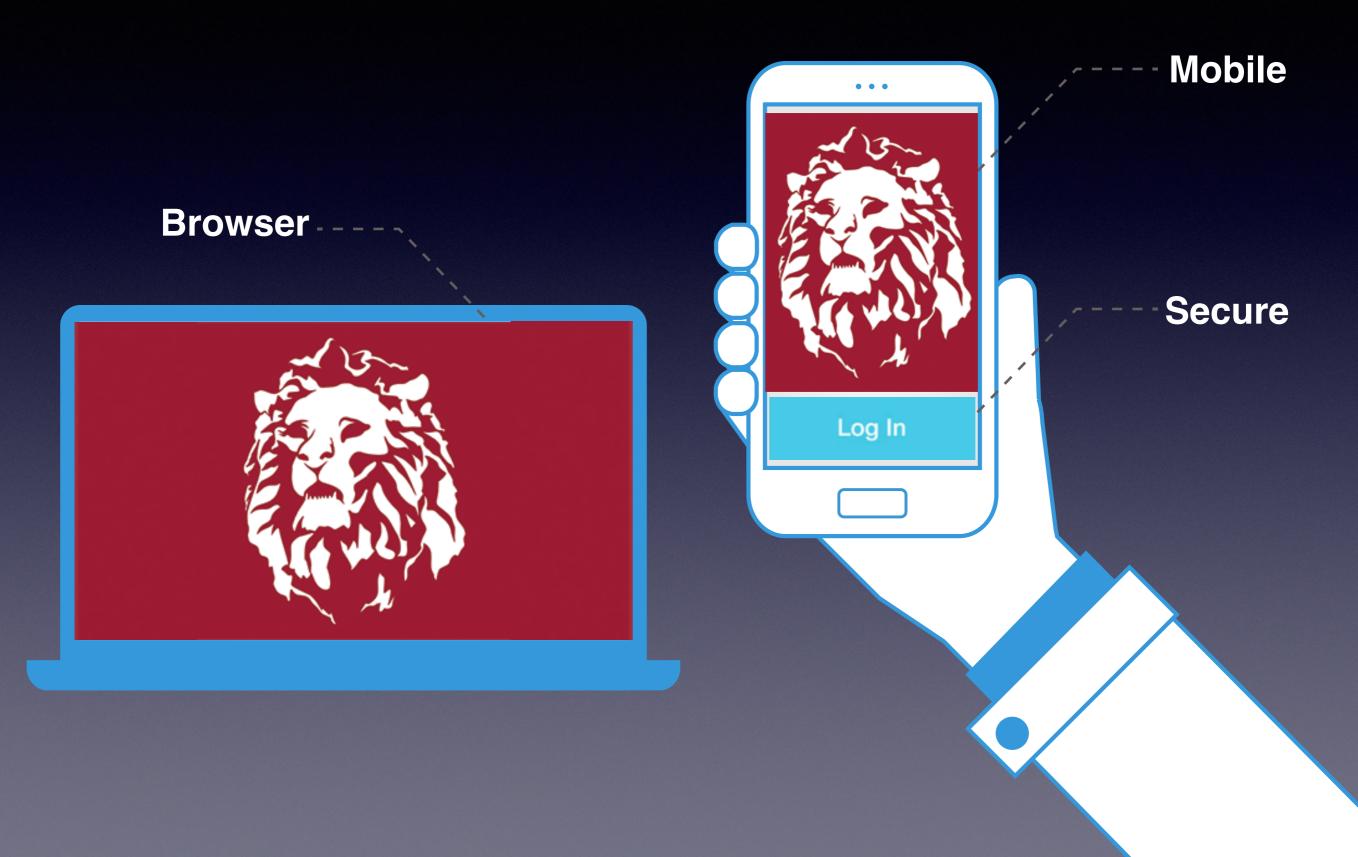
Custom built 4D application - CITI







Going Mobile



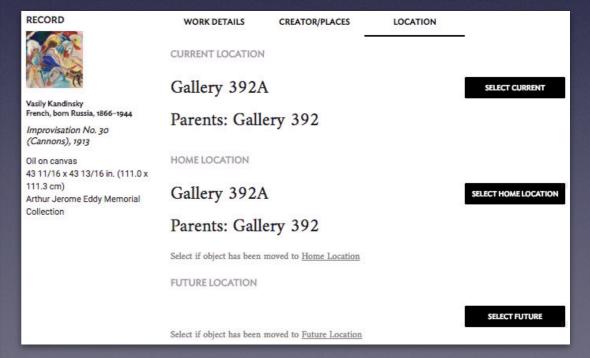
Going Mobile

- Manageable by a small IT team
- Live data, no sync
- Is scalable
- Performant with large amounts of data
- Highly secure even within the institution between users

Results



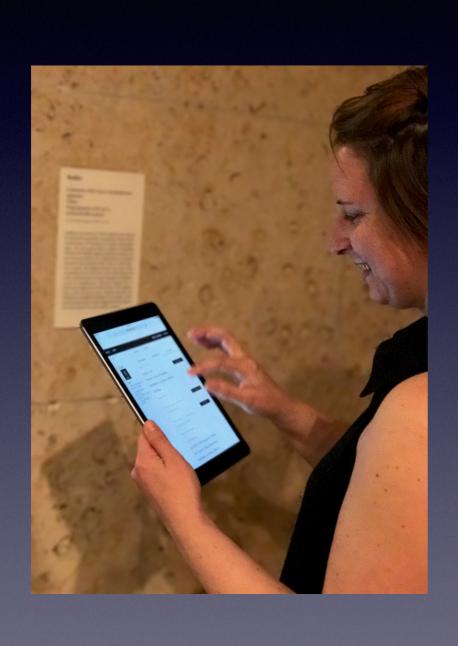
HOME	< BACK TO HOME			BRENT RAYMOND LOG OUT
Q	SEARCH	SUBMIT	Essential Artworks [31] (Global)	+
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Essential Artworks [31] (Global)				
	Grant Wood American, 1891-1942 American Gothic, 1930 Oil on Beaver Board 78 x 55,3 cm (30 3/4 x 25 3/4 in.) Friends of American Art Collection	Vasily Kandinsky French, born Russia, 1866– 1944 Improvisation No. 30 (Cannons),1913 Oil on canvas 43 11/16 x 43 13/16 in. (111.0 x 111.3 cm) Arthur Jerome Eddy Memorial	India Andhra Pradesh, Madanapalle Karttikeya, God of War, Seated on a Peacock, Ganga Period, c. 12th century Basalt 150.5 x 121 x 39 cm (59 1/16 x 47 5/8 x	Gustave Caillebotte French, 1848-1894 Paris Street; Rainy Day,1877 Oil on canvas 212.2 x 276.2 cm (83 1/2 x 108 3/4 in.) Charles H. and Mary F. S. Worcester
	SEE DETAIL	SEE DETAIL	SEE DETAIL	SEE DETAIL
	470			



Results

- Responsive single page web app using Angular 2, NodeJS, and Wakanda
- Mobile ready for iOS and Android
- Newly re-thought and re-designed for the browser & mobile platforms
- Very efficient data access makes it performant even with slow connections
- Style easily updated without complicated backend upgrades

Free The Users

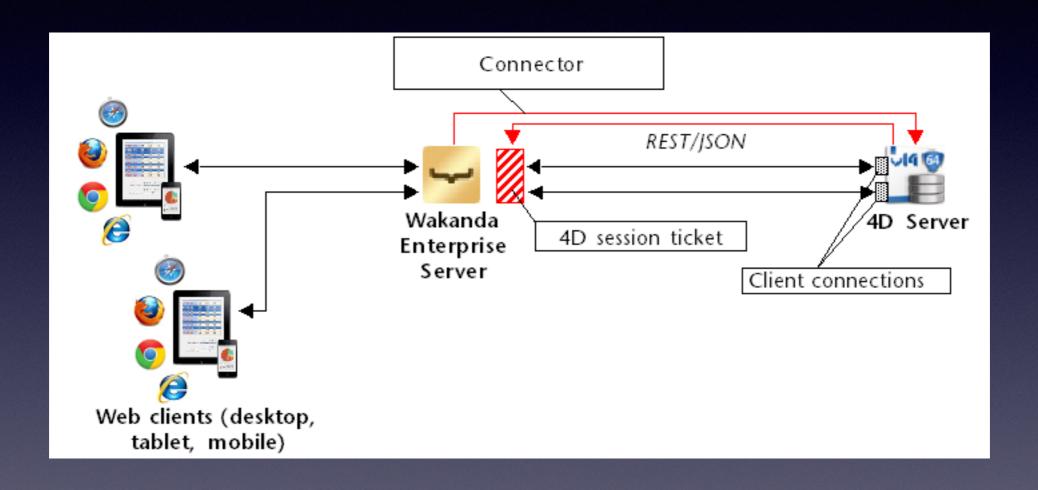




Why 4D Mobile?

- It's easy (see less expensive)
- It's quick (see checkbox click)
- Avoid trouble of writing custom REST API
- Keeps business logic centralized
- Leverage vetted code
- 4D Professional Services
 - Outsource web development

4D Mobile Connector



@&*\$ lt, Do lt Live!

- Enable 4D HTTP Server
- Activate 4D Mobile service
- On 4D Mobile Authentication (or not)
- 'Available through 4D Mobile call' Method property
- Association to table 'Expose...'
- Access via data store in Wakanda
- Done



Recommendations

- Stateless calls
- Handle sessions in web app
- Object in/ out parameters
- Use google docs to share api documentation
- Stay as generic as possible
 - See virtual structure talk <u>https://youtu.be/16CBVqiMGhw</u>

Wakanda Engineering



Questions?





Next Meeting



http://4dmethod.com/schedule/

Next Meeting

Wednesday, July 12, 2017, 12:00 noon, CDT (UTC-5:00) 4D ACME Client – A Lets Encrypt client in native 4D code, Tim Penner

Wednesday, August 23, 2017, 6:00 PM, CDT (UTC-5:00) A Publish/Subscribe Component for 4D, David Adams

Calling for speakers who would like to demo some of their work or applications. Open dates include:

October 4, 2017 November 15, 2017

Wrap Up

Other questions?

Discussion

Feedback is appreciated