

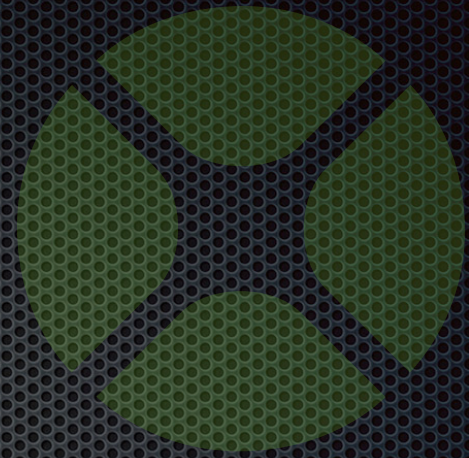


Introducing Aloe Express

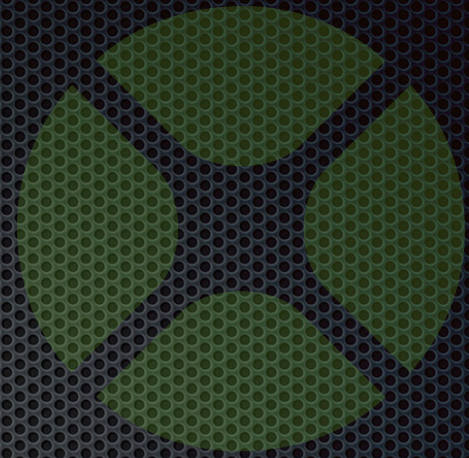
Tim Dietrich
Integration Specialist

About Me

- Independent developer.
- Focus is on integration.
- Developing with Xojo since late 2014.
- This is my second XDC.



Session Goals

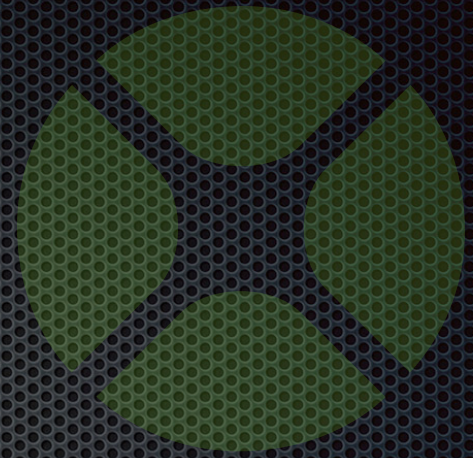


- Explain what Aloe Express is...
- And why you might want to check it out.
- Inspire you to use Xojo to create new types of apps.

What is Aloe Express?



An open source, Xojo Web server module.



Aloe Express vs Xojo Web Framework

ork





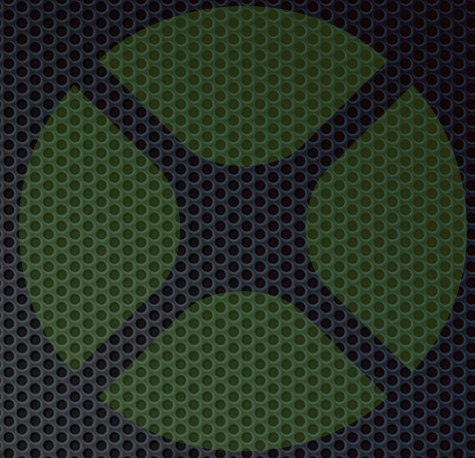
Education

COMMONWEALTH OF VIRGINIA

The image is a vertical composition. At the top is a blue header bar containing the word 'MENU' in white capital letters and a white hamburger menu icon (three horizontal lines). Below the header is a section with a light blue background. On the left side of this section is a close-up photograph of a yellow ruler with the word 'METRY' embossed on it, resting on a white grid paper. To the right of the ruler and grid is the large, black, sans-serif text 'ts'. Below this section is a map of the Richmond, Virginia area. The map shows major highways including I-95, I-295, I-64, and VA-360. Labeled locations include Mechanicsville, Highland Springs, Sandston, Richmond, Chester, and York. There are several black location pins and house icons with red location markers on the map. A small inset map in the top right corner of the map area shows the location within a larger regional context.

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How I'm Using AE

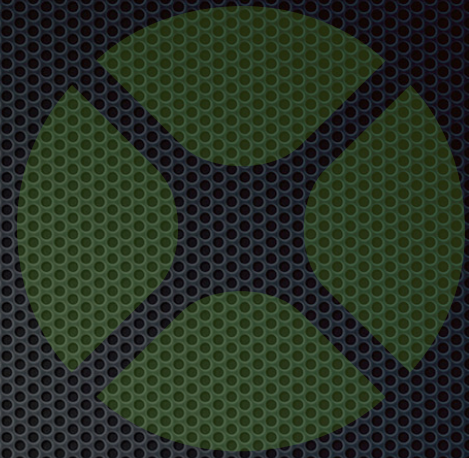


Xojo & Aloe Express are the "digital glue" that I use for a wide range of integration projects.

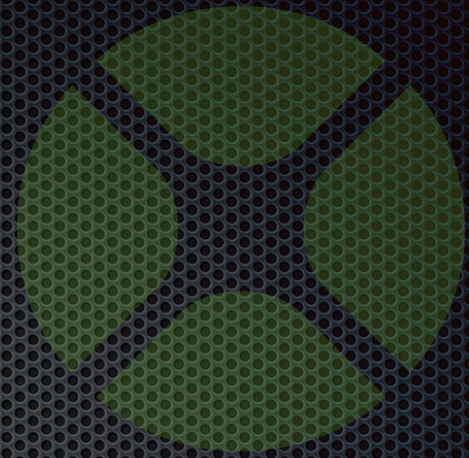
- APIs
- API Bridges
- Microservices
- Web apps
- Web sites

Evolution

- iOS apps
 - Luna & FMLuna
 - Xojo WebFrame / Nifty
 - ViewPoint
 - Aloe
 - Aloe Express

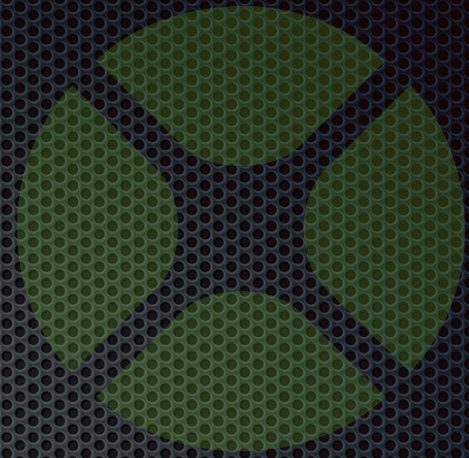


Original Aloe



- Released in September 2017
- Open source Xojo module
- Exclusively for use w/ Xojo Web framework
- Used HandleURL to bypass normal request flow
- Enhanced the Xojo WebRequest class
- Was good, but not great
- *Which lead to...*

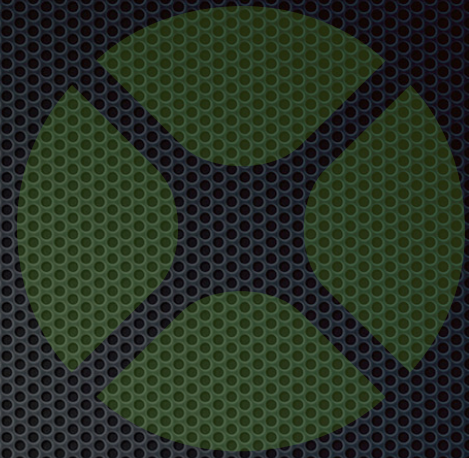
Aloe Express

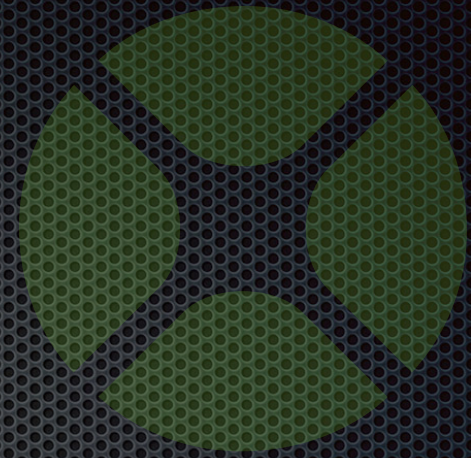


- Released in January 2018
- Open source Xojo module
- Provides a full Web server (and more)
- Has no dependencies on Xojo Web framework
- Originally designed for use in console apps
- But can also be used with the Xojo Web framework
- And in Xojo Desktop apps, too!

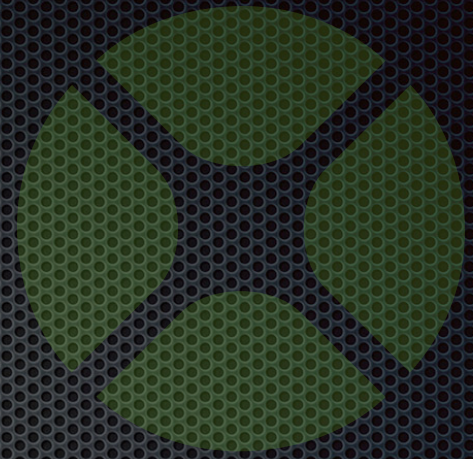
Key Features

- Access to Requests
- Request Routing
- Access to Responses
- Session Management
- Caching
- Logging
- Templating
- SSL Support



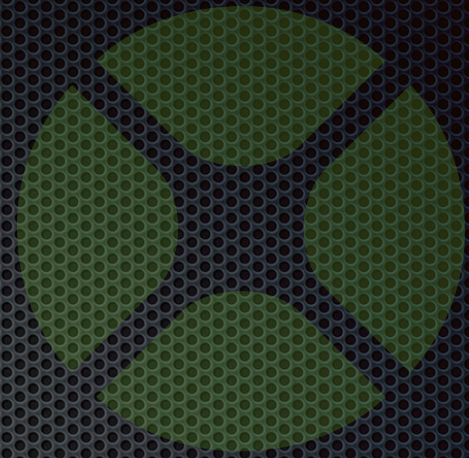


- Request Headers
- Response Headers
- Cookies
- Response Compression (Gzip, Gunzip)
- 404 Error Handling
- Helper Methods (encoding, decoding, UUIDs...)
- Command-line Configuration



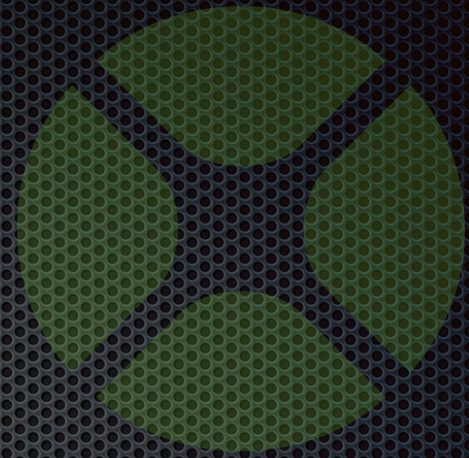
Demos

Why Xojo / Aloe?



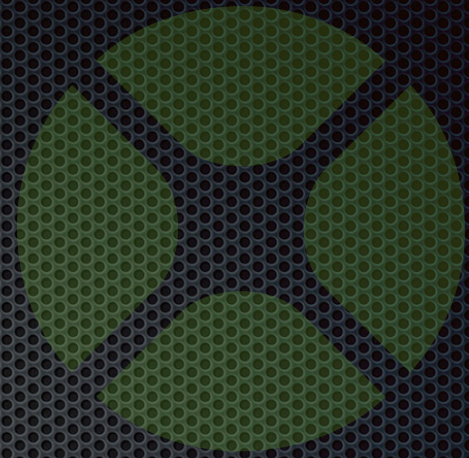
- Access to the Xojo language
- Access to Xojo plugins
- Compiled Apps
 - Build 32/64-bit apps for macOS, Windows, Linux
 - Inherently faster and more secure
- Smart investment for those new to Xojo
 - Multiple targets
 - RAD

Best Practices

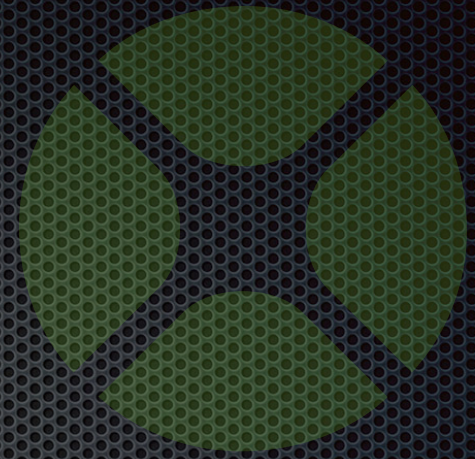


- Offload static content (S3, etc).
- Use a proxy server (NGINX or HAProxy)
 - Load balancing
 - Rate limiting
 - SSL Termination
- Use caching (if / when it makes sense!)
 - Server-side via the CacheEngine class
 - Client-side via response headers

What's Next?



- ~~HTTPS~~ support -> Now supported!
- Refactor references to "New Framework"
- Multipart form support
- WebSockets support



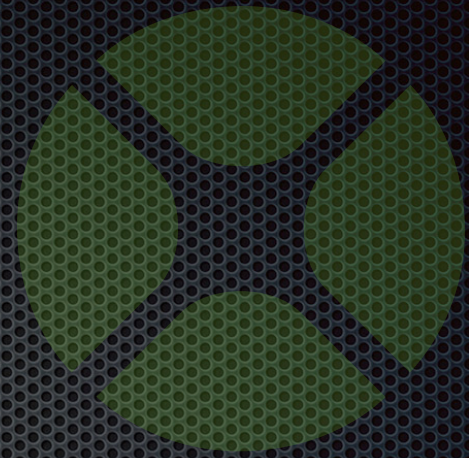
Download Aloe Express:

<https://aloe.zone>

Also check out Xanadu:

<http://campsoftware.com>

Q & A



Tim Dietrich

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Web: <https://timdietrich.me/>

Give us feedback on this session in the XDC app!