

Write the code...

...and get back to what you love.

using node.js in the real world

Who is this guy?



Nicholas Young

radio host

designer

photographer

ex-software developer

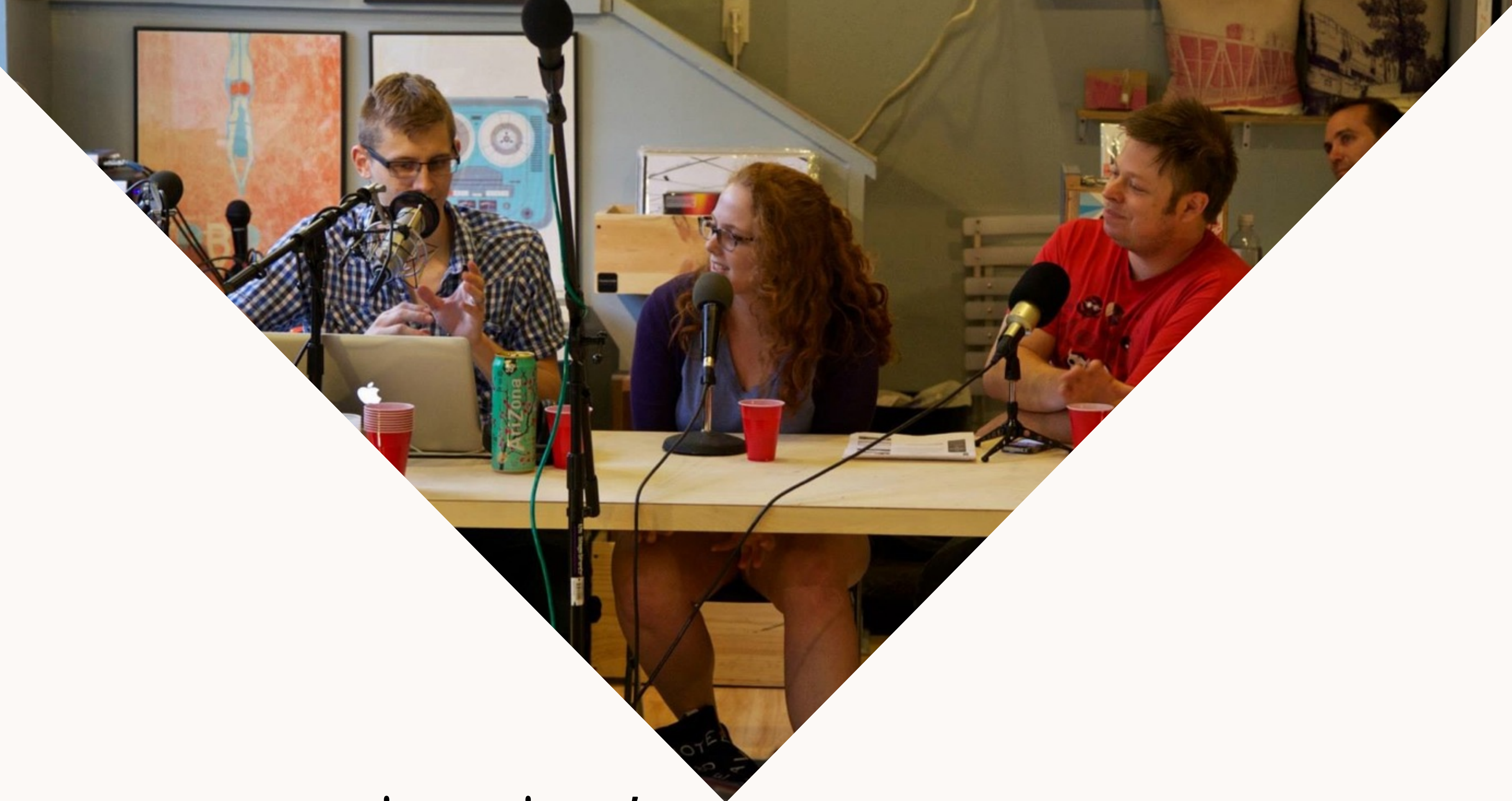
extraordinarily busy person

<http://bit.ly/node-chicago-2014>

I love getting things
DONE

tinkering is
useless

unless it teaches us something



my passion isn't
writing code
(I lost that years ago.)

• I promise to show you some kick-ass
javascript
• before we're done here



I make
compelling,
educational

radio programs

that teach artists
how to pursue
and monetize
their work



machine.fm



Inside the Machine

In-depth interviews, beyond the 60-second soundbyte. Go behind the music with your favorite artists.

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RECENT EPISODES

Spaces of Disappearance

Here in Chicago, our local music scene is anything but normal. It welcomes those who are bent on reckless experimentation; some aiming for greatness, and others for the total deconstruction of their art form. Today, though, I bring you a band from the former category: Spaces of Disappearance, a colorful (and relatively new) act that is, if possible, expanding what you'll recognize as electronica.

Lore City

From the asphalt kingdom, to the quiet countryside of upstate New York, Lore City is always on the move; leaving etherial, potent soundscapes in their wake. Hear their entire story, and preview their new album Kill Your Dreams, today on Inside the Machine.

Volutes

Inspired by the basics of life, Volutes' new release, Elegant Grey, is an excursion away from the established

HOST

Nicholas Young

Nicholas Young is an educator, producer, mastering engineer, photographer, broadcaster, and entrepreneur. With more than a decade of expertise spanning almost every creative discipline, no industry is safe from his disruptive, innovative spirit.



Thanks for his early adoption of podcasting, and various guest appearances on the terrestrial radio dial, Nicholas' voice has been heard by...

[Read more »](#)

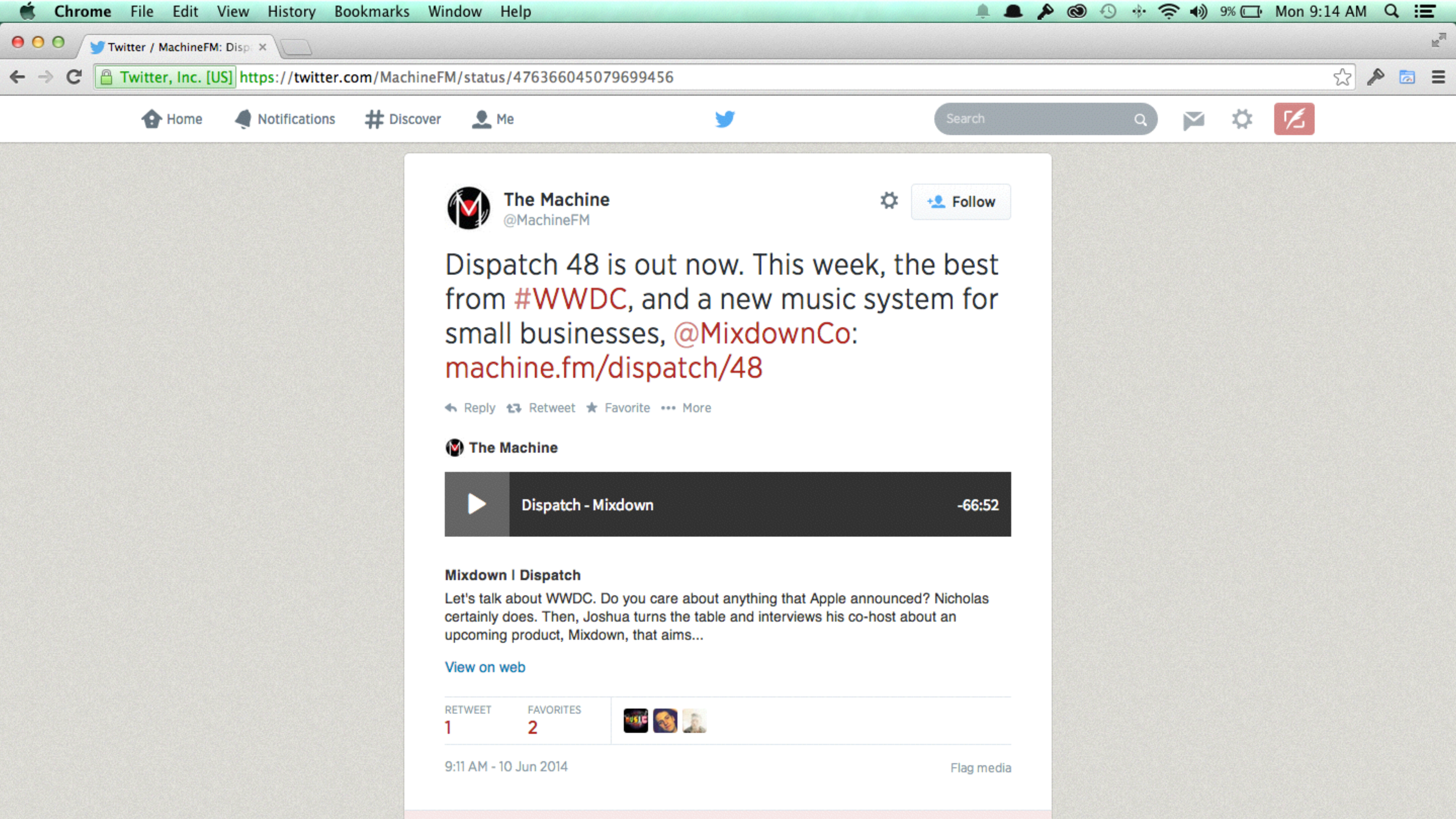
ChromeFileEditViewHistoryBookmarksWindowHelp

https://feeds.machine.fm/

https://feeds.machine.fm/nexus

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      Where faith meets doubt, Christianity meets agnosticism, and our physical and spiritual lives collide.
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        How can we demolish the wall of animosity between traditional churches and the LGBTQ community? Our guest, Jay Bakker, has a few ideas. Jay is the son of the popular televangelism couple Jim and Tammy Faye Bakker. After he stopped believing homosexuality is a sin, his ministry lost all it's funding. Jay, undeterred, went on to become an outspoken straight ally. Hear his story - one of grace and rebellion, in equal measure - today on the debut episode of The Nexus.
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        <p>On the premier episode of The Nexus, hosts <a href="http://savejudy.com">Randy Eddy-McCain</a> and <a href="http://facebook.com/neall">Neal Campbell</a> interview Jay Bakker.</p>
        <p><a href="http://jaybakker.com">Jay Bakker</a> is an author, popular speaker, pastor, straight ally with the LGBTQ community. He's also the son of infamous televangelists, Jim and Tammy Faye Bakker.</p>
        <p>Several years ago, when Jay was beginning to wonder if the church might be wrong about LGBTQ people, Randy invited him to come speak at the <a href="http://www.sherwoodopendoor.org/">Open Door Community Church</a> Fall Conference. The experience of being in a Christian community filled with undeniable love and grace help Jay make up his mind for good.</p>
        <p>When he went back home to Atlanta, he announced to his congregation that he no longer could believe that homosexuality is a sin. His ministry lost it's funding and Jay began to struggle, but he never backed down. He became a stronger voice to tear down the wall that Christians have erected to keep people in the LGBTQ community away from Jesus.</p>
        <p>We talk to Jay about the initial backlash against his stance and how much has changed since he came out as a Christian straight Ally to the LGBTQ community. Things have changed so fast in just a few years that people now accuse Jay of supporting gay rights to be popular. Having walked through the fire of massive rejection by Christians, Jay talked about how indicative that accusation is that we've come a very long way.</p>
        <p>We talked with Jay about his latest book, <em><a href="http://www.amazon.com/Faith-Doubt-Other-Lines-Crossed-ebook/dp/B007ZFP04U/bacontv-20">Faith, Doubt, and other Lines I've Crossed</a></em>, and about how more and more people who grew up firmly believing in the message of Christianity are beginning to doubt that it's true.</p>
        <p>We also talked about his famous parents, Jim and Tammy Faye, the pain of losing Tammy Faye to cancer, the awkwardness of disagreement on social media, and our changing thoughts about what grace is all about.</p>
        <p>If you like the first episode, we'd appreciate it if you'd buy Randy Eddy-McCain's autobiography. <em><a href="http://www.amazon.com/Save-Judy-McCain's-Autobiography/dp/B007ZFP04U/bacontv-20">Save Judy</a></em></p>
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```

The Machine
@MachineFM



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Dispatch 48 is out now. This week, the best from [#WWDC](#), and a new music system for small businesses, [@MixdownCo](#): [machine.fm/dispatch/48](#)

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The Machine



Dispatch - Mixdown

-66:52

Mixdown | Dispatch

Let's talk about WWDC. Do you care about anything that Apple announced? Nicholas certainly does. Then, Joshua turns the table and interviews his co-host about an upcoming product, Mixdown, that aims...

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RETWEET

1

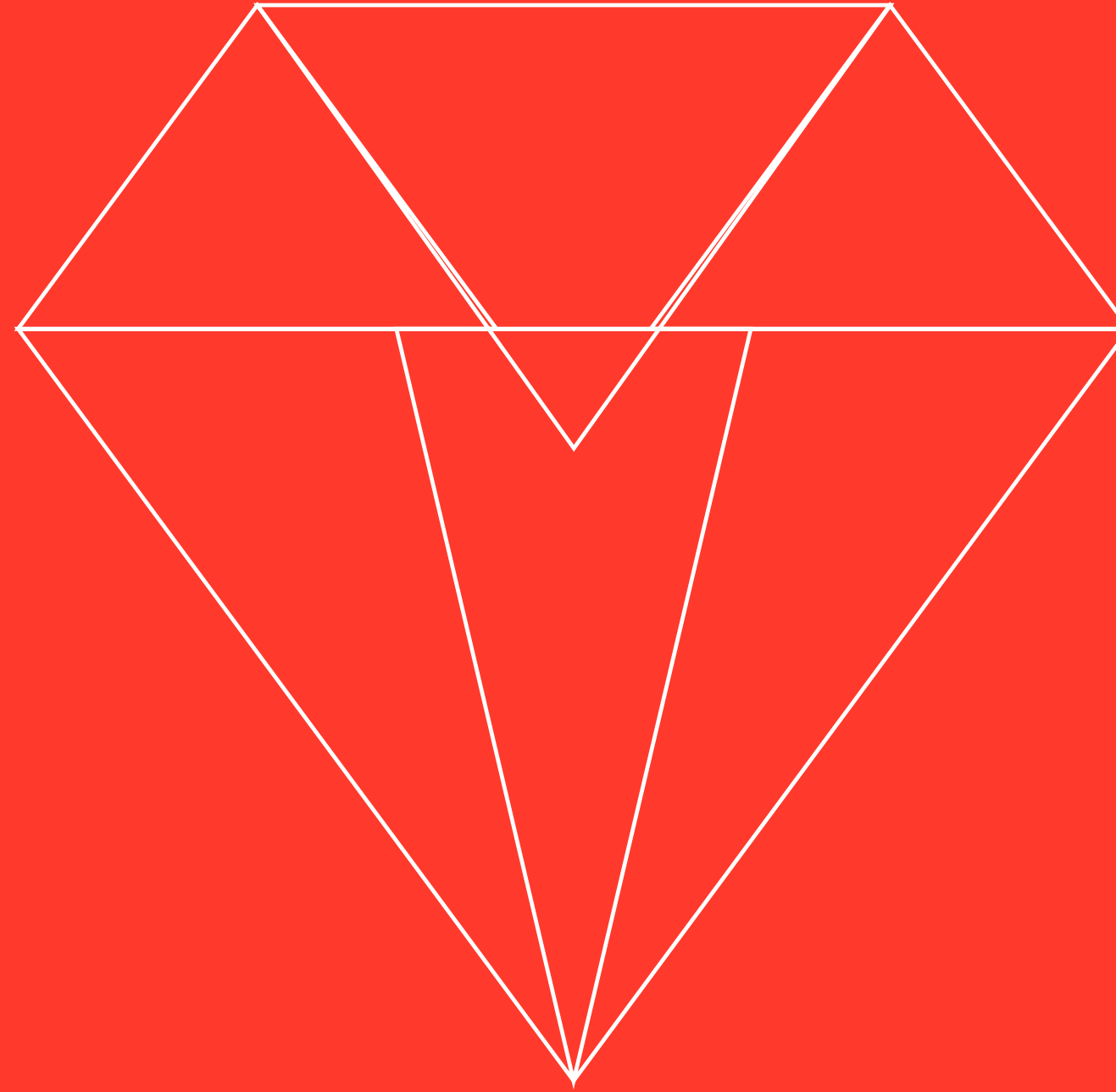
FAVORITES

2



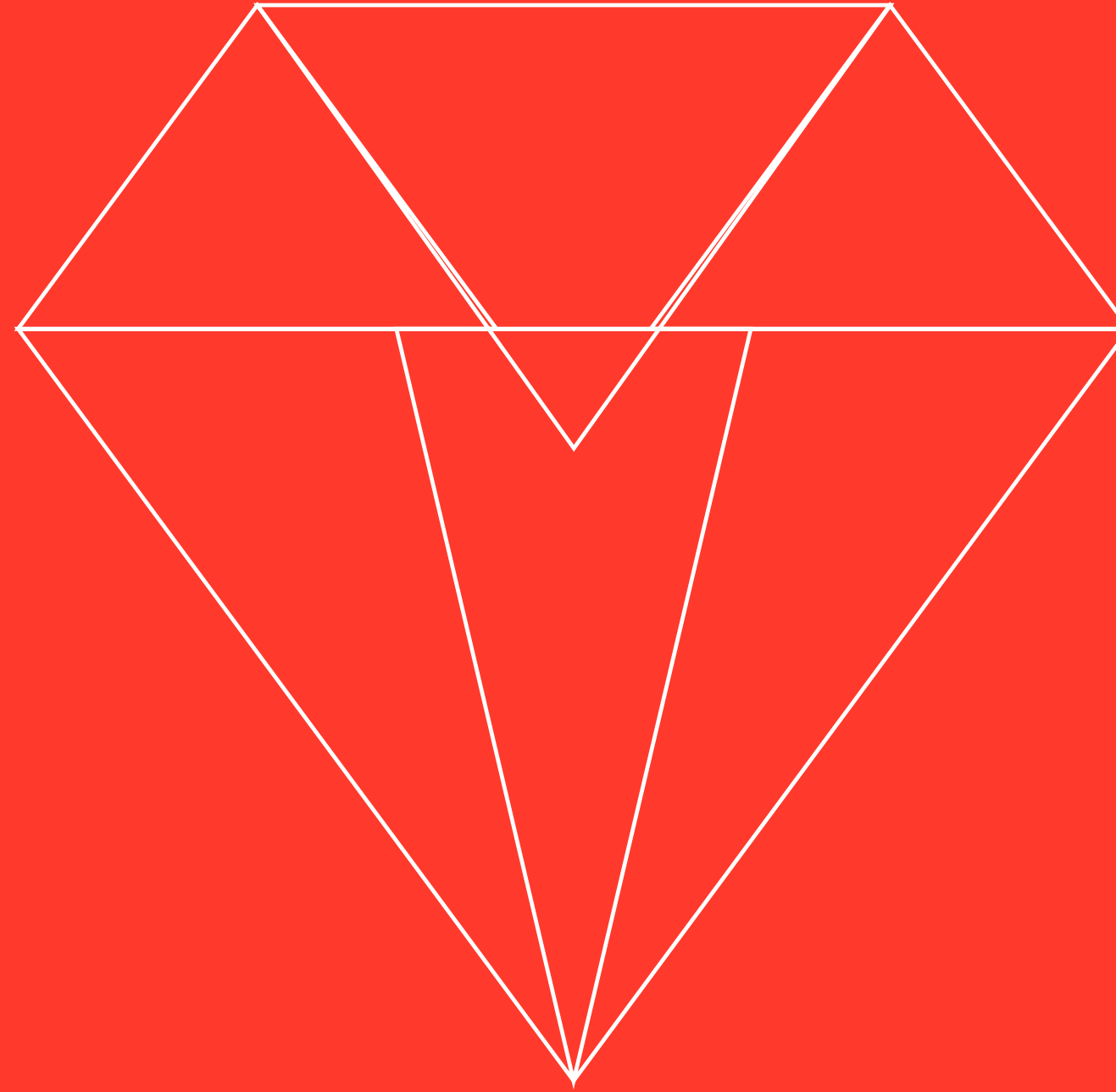
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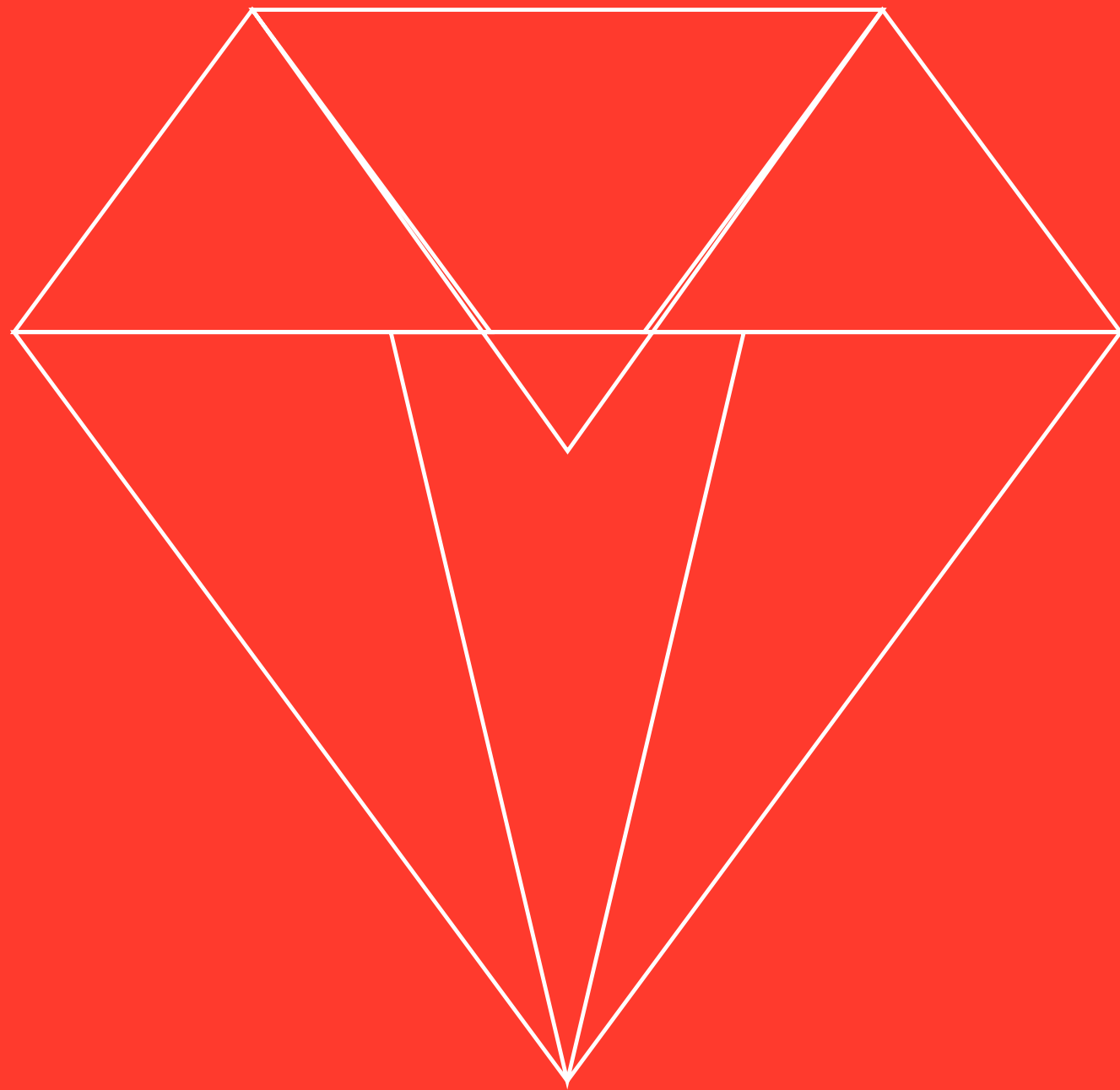
Ruby

a programmer's best friend



Rails

beware, unmaintainable code ahead



~~slow runtime~~

~~poor threading support~~

streaming file uploads



not knockin' it

ruby is still awesome, in a lot of ways



but a lot of it
needs to be
rethought

file upload



server processing



store processed files in the cloud

file upload

everyone does this

server processing


your thread is waiting

store processed files in the cloud



**while everything
happens, your
server freezes**

* only on one thread, sure, but that's still bad.



**with several users
submitting large file
uploads, our app
grinds to a halt**



why?

because I built a monolith:

public facing website

feed generation

embeddable, sharable player

admin dashboard

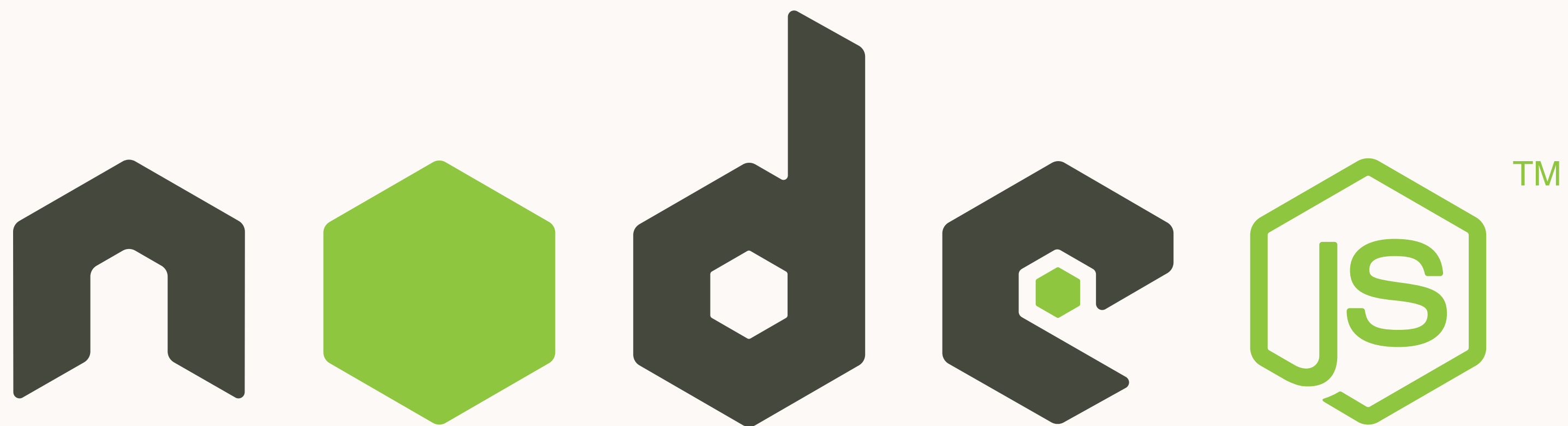
media analytics

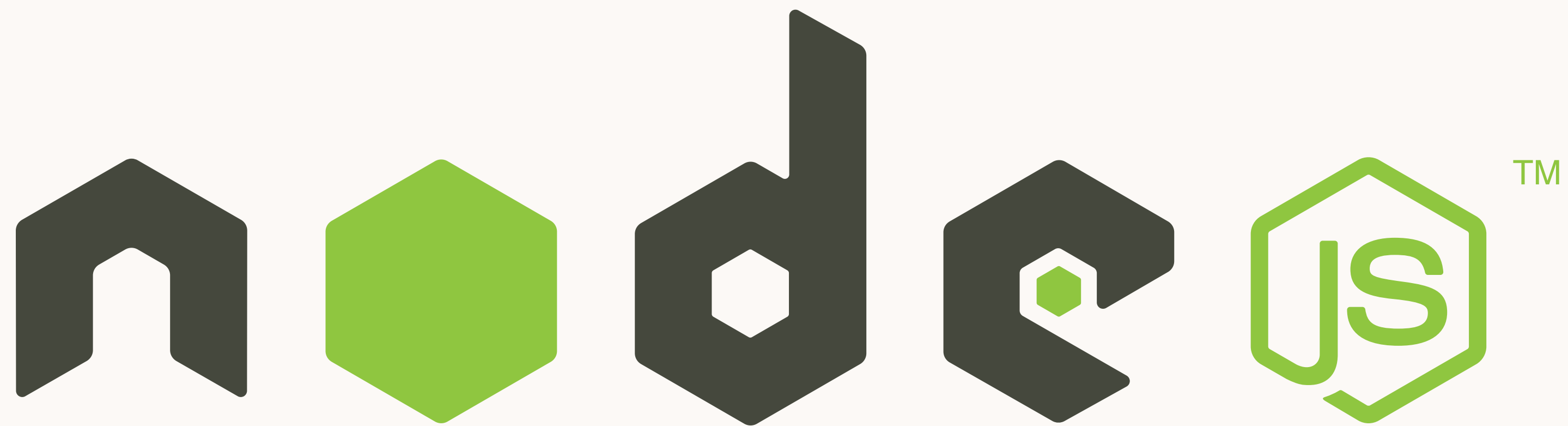
were all a single app



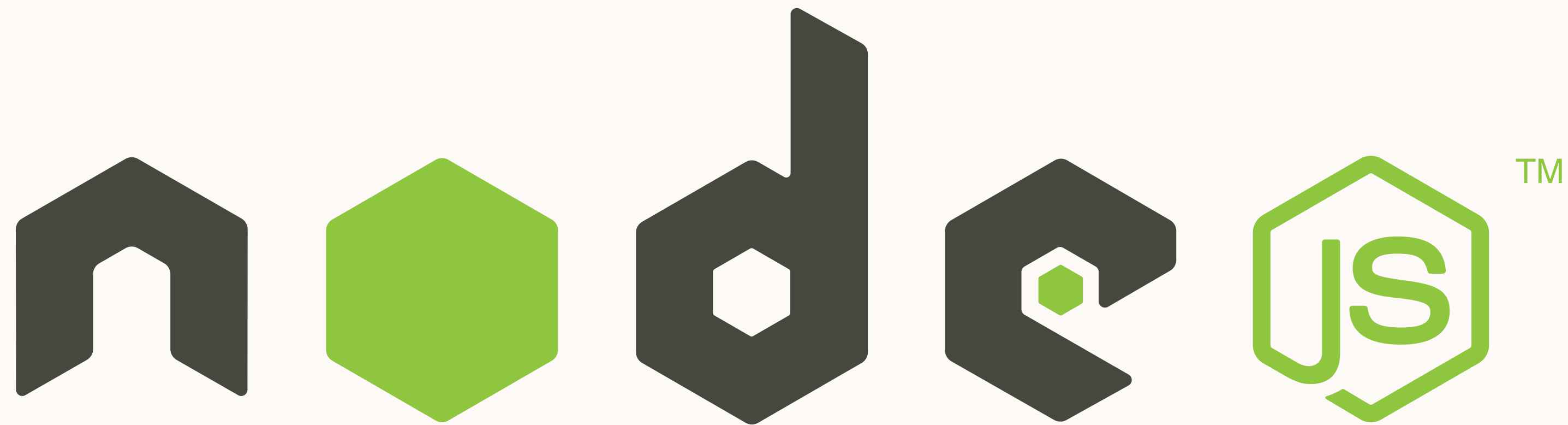
this sucks.

it doesn't mean ruby is inherently
awful, but it didn't work for our app.





is my tool of choice



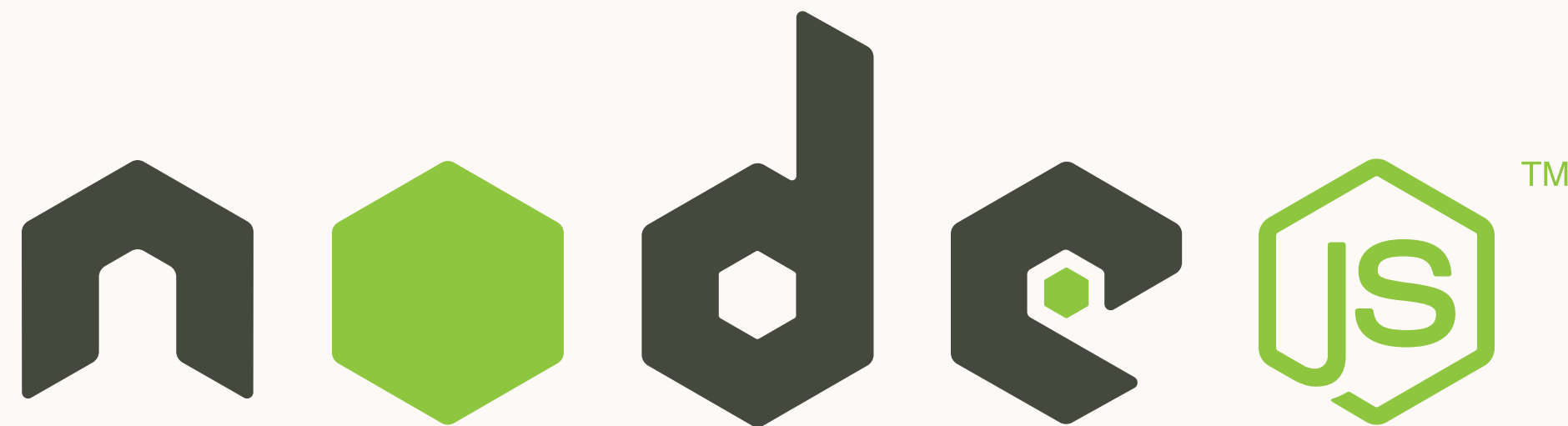
~~is my tool of choice~~

it totally rules





encourages you to build small,
interconnected applications that each
tackle a specific domain.

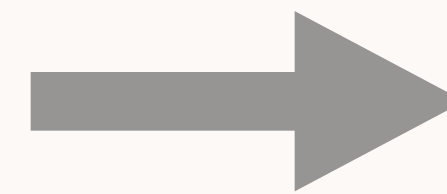


CMS

Feed Generation

Embeddable Player

Media Analytics



Models

Config

Applications

Dependencies



mixdown.co

let's talk
javascript

4 little helpers that
make it easy
to develop node apps my way

distill

errbot

enforcer

apogee

activate live coding

prototype
relentlessly

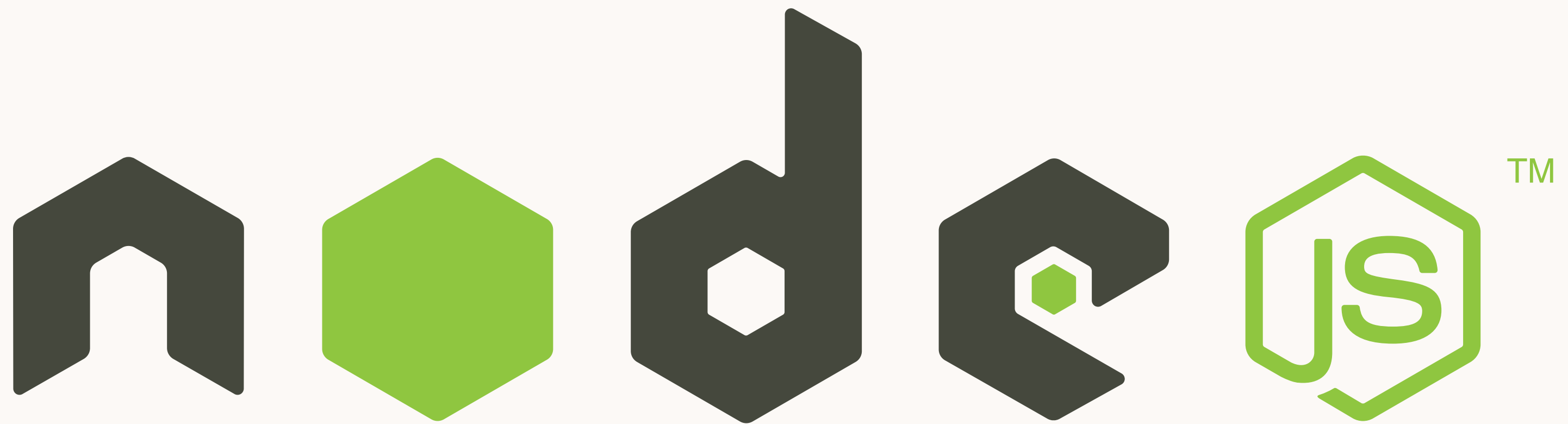
break
BEFORE
you build

ask yourself

what does my

system do?

and build modules to help it along



Q&A

ask me anything



@nicholaswyong

nicholaswyong.com
OriginalMachine.com
Mixdown.co
Machine.FM