

RICOH THETA Developers SF Bay Area

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San Francisco, CA
Founded Apr 14, 2016

360 Development On Cutting Edge Platforms

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Tuesday, December 13, 2016
6:30 PM to 9:30 PM

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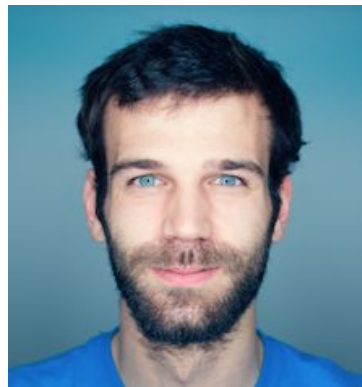
Tools



Welcome!

Food, drinks, friends...

- Guillaume Sabran - co-founder & CTO at Pie (pie.video)
- Making 360° Video Creation Easy - Close Up On Filters



- Jesse Casman - RICOH THETA Unofficial Guide Organizer (theta360.guide)
- New RICOH THETA Features from the Unofficial Guide: 1080p Live Streaming, A-Frame WebVR development, and SonyVR Googles



Unofficial Guide Introduction

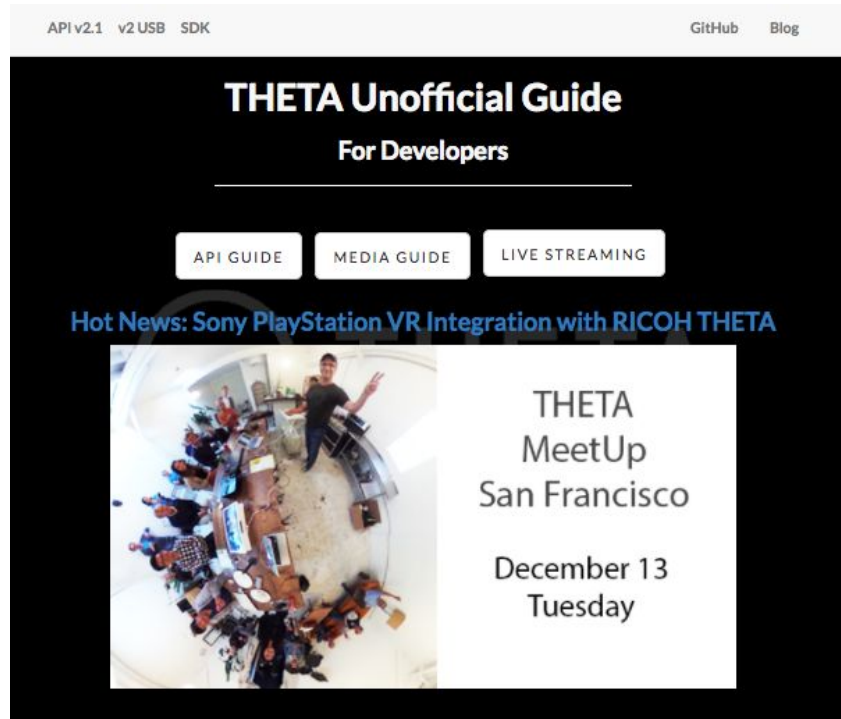
Oppkey

- Developer Relations
- Craig, Tyler, me

Unofficial Guide started early 2016

- Forum, blog, Github repos, YouTube
- Please come register and participate!

theta360.guide



Who are you?

- Dev
- Marketing
- Sales
- Ops
- Hiring?
- Looking for work?
- Learning?

HELLO

my name is

~~VOLDEMORT~~

HE WHO CANNOT
BE NAMED

RICOH THETA features and coolness

1080p Live Streaming - free upgrade

A-Frame - Building WebVR pages easily

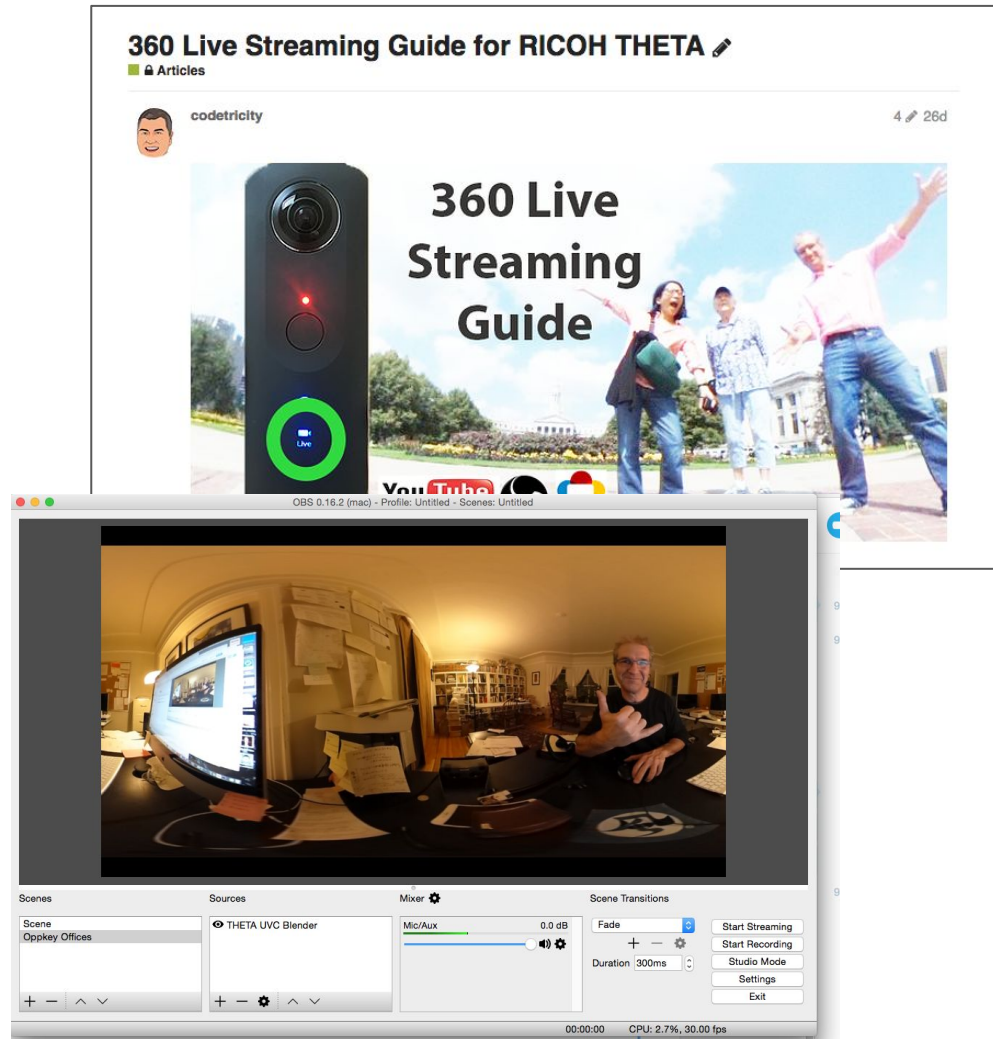
SonyVR - Viewing RICOH THETA images and videos in the
Playstation 4 VR

1080p

Live streaming output in full
HD 30 fps by USB

New announcement from
Facebook YESTERDAY

- LIVE 360 Video - For
News Feed, not Oculus



Managing Expectations

This is not a pro level setup

You need to be running firmware version 1.82 or above

You need to install THETA UVC Blender 2.0.0

You need an encoder like OBS to push to YouTube or to record

You need to run a Live Event in YouTube



Quick Example!

<https://www.youtube.com/watch?v=KTKgASgUF8g>

Fisheye vs 360 video vs navigation

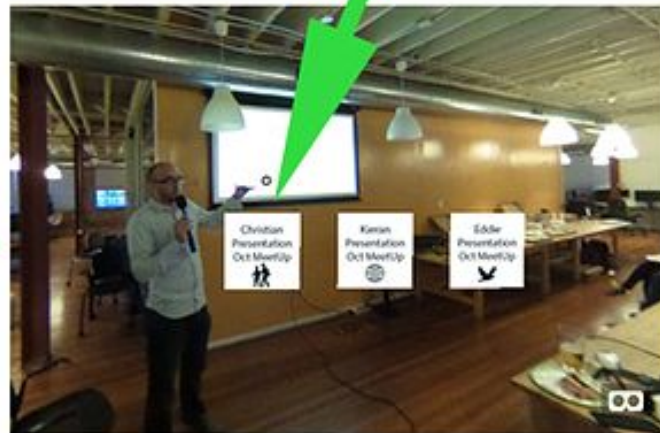
| Software | THETA S Dual Fisheye | UVC FullHD or HD Blender | 360 Navigation with UVC Blender |
|------------------|----------------------|--|---------------------------------|
| Skype | works | works | Does not work |
| Google Hangouts | works | Slow motion (unusable) | Does not work |
| Unity | works | Does not work. Unity cannot access (w10) | N/A (works with video file) |
| VLC 3.0.0 (Beta) | works | Crashes system (w10) | N/A (works with video file) |
| OBS | works | works | Does not work |

A-Frame JavaScript library



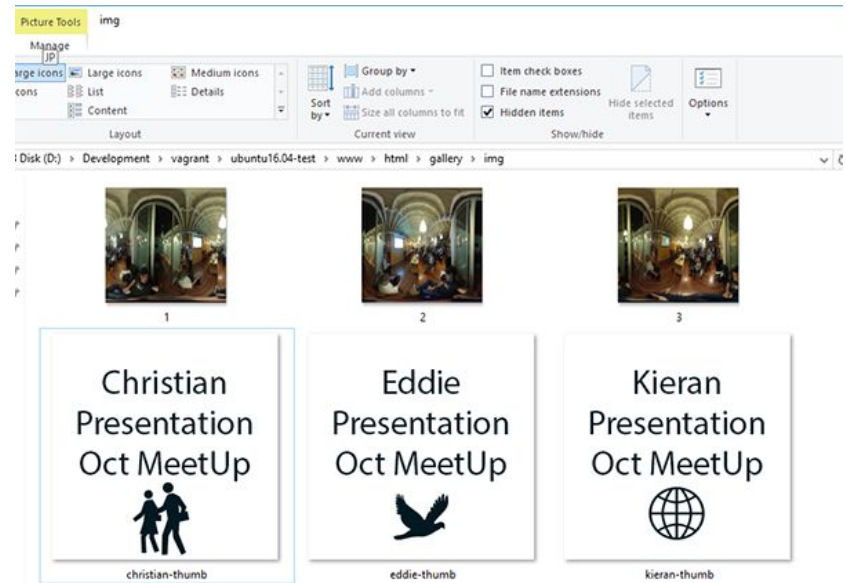
Easily Create a 360 Gallery For RICOH THETA

Easily add 360 headset navigation



- Fork the [demo on GitHub](#) and clone to your local drive
- Drop your THETA 360 images into `img/`
- Create navigation thumbnails/icons
- Write a few lines of code (JavaScript)
 - Open `index.html` in your editor
 - Edit File Names and ID Links
- Push to GitHub Pages
 - Add all your files to your local git repo, commit, and push to your forked repo, gh-pages branch. View your app at `username.github.io/360gallery/`

Best for VR goggles, works in browser



```

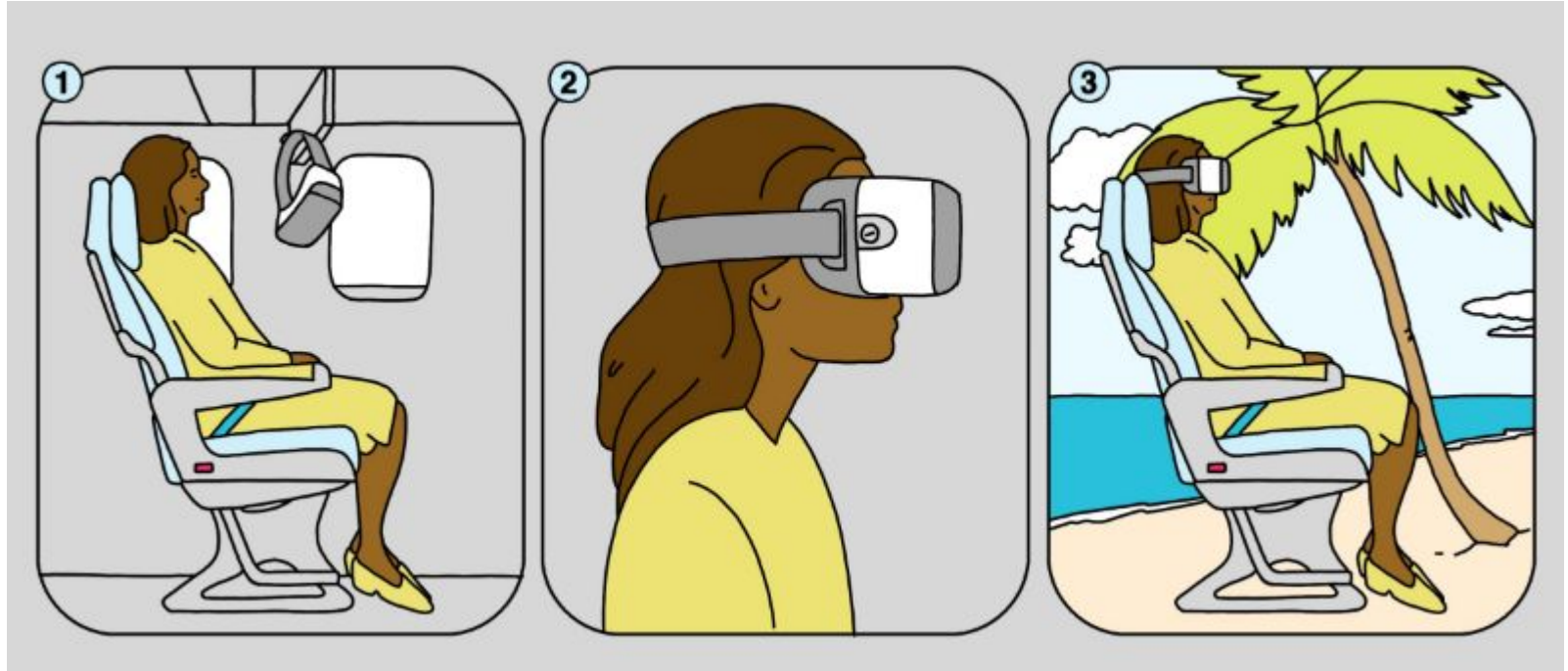
15 <body>
16 <a-scene>
17 <a-assets>
18 
19 
20 
21 
22 <audio id="click-sound" crossorigin="anonymous" src="https://cdn.aframe.io/360-i
23 
24 
25

```

<https://codetricity.github.io/360gallery/>

https://www.youtube.com/watch?v=vQ9unX_-p6s

I'm Starting To Come Around To VR



RICOH THETA and Sony Playstation VR



- Pretty cool!
- Step into your photos and videos
- Wouldn't buy a whole system just for this, but would add SonyVR if I owned PS4
- VR goggles selling well?

Sales VR headsets as of Nov 29, 2016

- Sony's PlayStation VR — 745,434
- HTC Vive — 450,083
- Facebook's Oculus Rift 355,088

[Source: VR analytics firm SuperData Research / Business Insider](#)

RICOH THETA and Sony Playstation VR

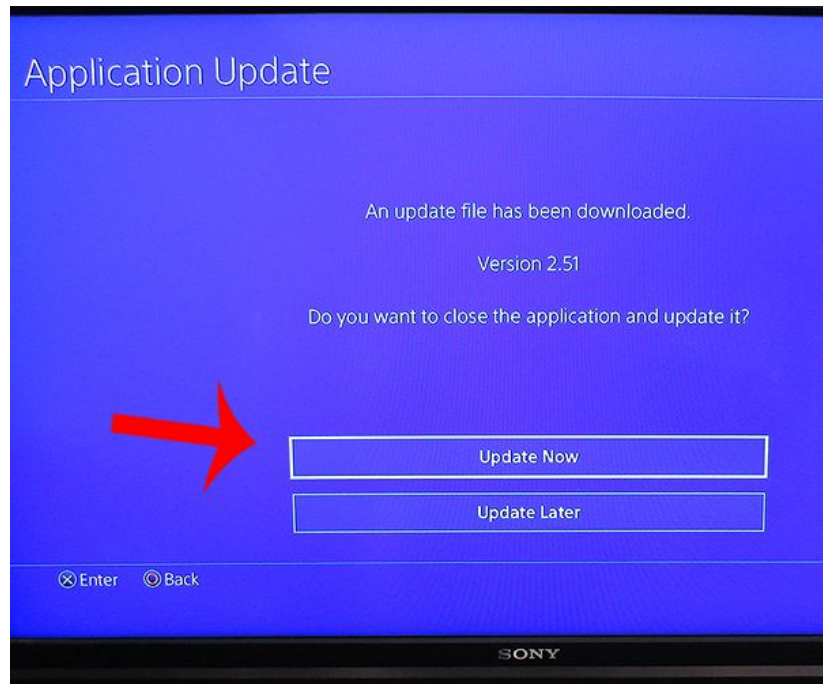


Video formats: MKV, AVI, MP4, MPEG2 PS , MPEG2 TS, AVCHD
Image formats: Equirectangular JPEG, BMP, PNG

http://manuals.playstation.net/document/en/ps4/videos/mp_format_v.html

What is it? Media Player can handle 360 content, recognizes RICOH THETA over USB

- Update to 2.51 just announced
- Press middle button to connect
- Shows up as RICOH THETA S
- Set VR Mode to On in Options
- Can't control order
- Adding RICOH THETA by thumbdrive still works



Demo