

# NON-LINEAR WIRELESS PRESENTING

COLM DUNPHY

Ver 1.4

# INTRODUCTION

- ▶ 1. TIED (**WIRED**)
- ▶ 2. TETHERED (**WIRELESS**)
  - ▶ Apple
  - ▶ Android
  - ▶ Windows
  - ▶ Amazon FireStick
  - ▶ Android TV
- ▶ 3. RECORDING
  - ▶ iPad Pro
  - ▶ SWIVL
  - ▶ MOVI
- ▶ 4. MEDIA HOSTING
  - ▶ Video
  - ▶ Audio



TIED (WIRED)

SECTION 1



# 1. Presenting with a tablet/phone



## USING OLD DATA PROJECTORS

Use a VGA adapter with your tablet / phone

Connect this as you would a laptop to older data projectors

# 1. Presenting with a tablet/phone



## USING NEW DATA PROJECTORS

Use a HDMI display adapter with your tablet / phone

Connect this as you would a laptop to newer data projectors

# Multi Adapter



Single connector  
supports all 3:

- VGA
- DVI
- HDMI

# TETHERED (WIRELESS)

SECTION 2

# WIRELESS Presenting - REQUIREMENTS

- ▶ Tablet / phone
- ▶ Screen mirroring device (Miracast is the generic term)
- ▶ Both connected to the same WIFI network

# SCREEN MIRRORING DEVICES

STREAMING > BEST PICKS

## Best Miracast and Screen-Mirroring Devices 2015

by MARSHALL HONOROF Feb 3, 2015, 9:00 AM

**For Android Devices**  
GOOGLE CHROMECAST WITH SCREEN CAST



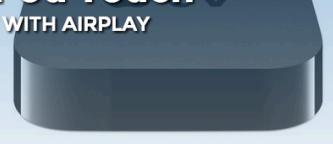
9/10 [REVIEW >](#) \$32.70 [Amazon](#)

**For Windows PCs**  
MICROSOFT WIRELESS DISPLAY ADAPTER



9/10 [REVIEW >](#) \$35.90 [Amazon](#)

**For Mac, iPhone, iPad, and iPod Touch**  
APPLE TV WITH AIRPLAY



9/10 [REVIEW >](#) \$99.99 [Amazon](#)

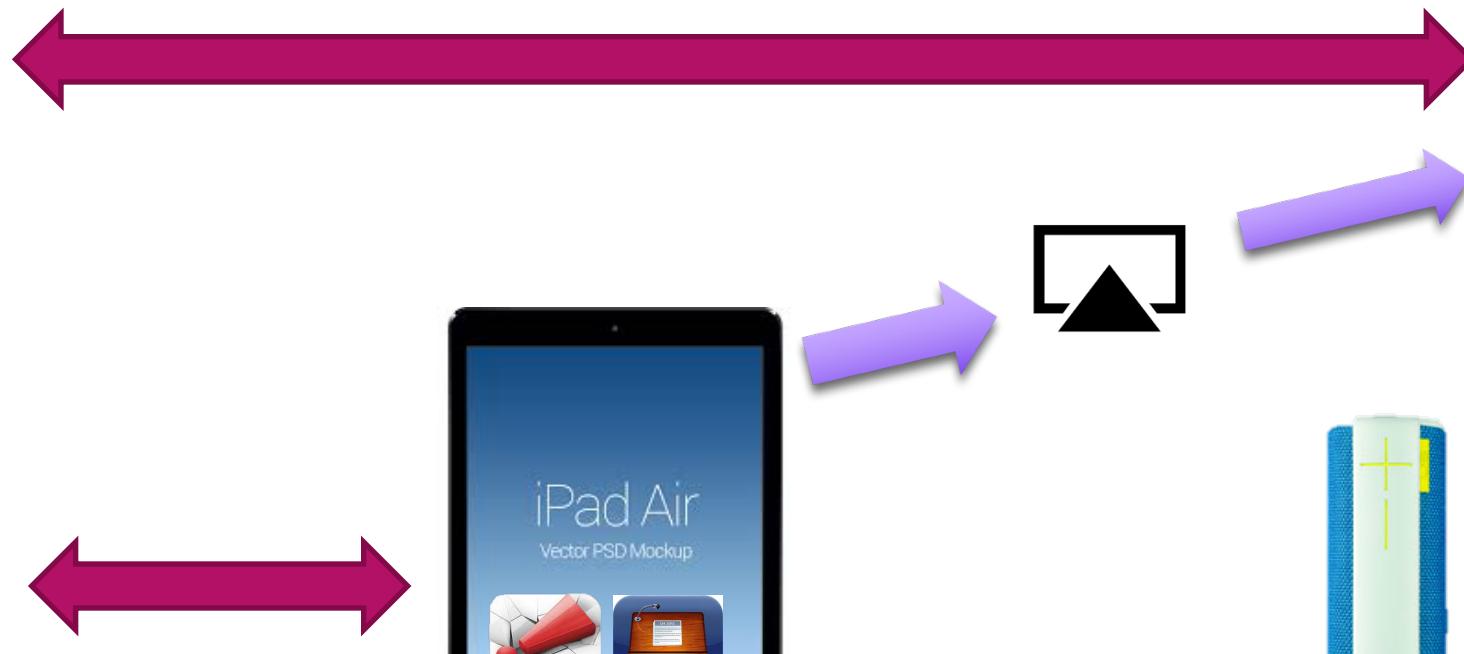
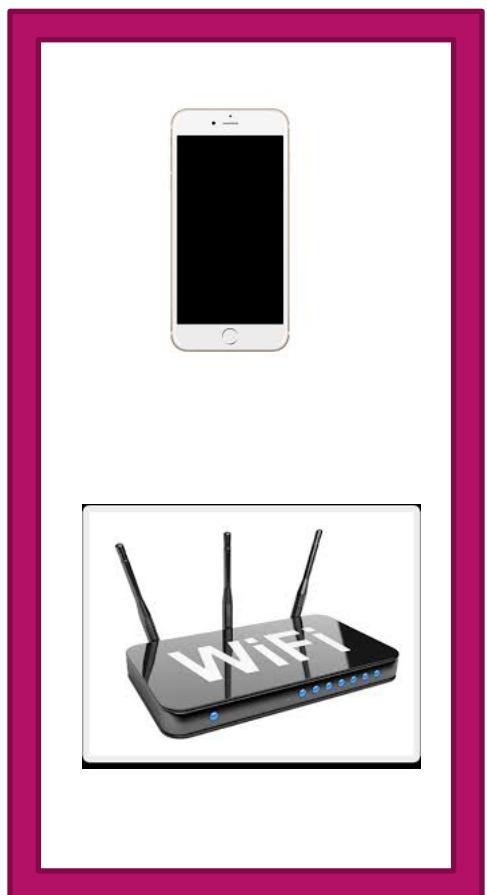
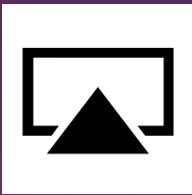
For Android Devices

For Windows PCs

For Mac, iPhone, iPad, and iPod Touch

SRC: <http://www.tomsguide.com/us/best-miracast-screen-mirroring,review-2286.html>

# 1. APPLE AIRPLAY

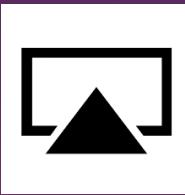


# Explanation (1)



- ▶ **IPAD** that needs to connect to a **WIFI** network
- ▶ **APPLE TV** that needs to connect to the same **WIFI** network
- ▶ Forget about using the college **WIFI** for this. Instead create your own using either
  - ▶ A **WIFI router** (e.g Apple Airport wired to college ethernet & AppleTV. You should check with Computer Services that the ethernet port will work. Then connect the iPad wirelessly to the router)
  - ▶ OR if you have an unlimited data plan on your phone, simply turn on a **WIFI hotspot on your phone**
    - ▶ This is susceptible to noise and network stability

# Explanation (2)



- ▶ The **AIRPLAY** icon is displayed on your IPad. Tap it to wirelessly transmit your screen to the APPLE TV BOX, which in turn is connected to the data projector.
- ▶ You'll need a **HDMI-VGA adapter** for most data projectors. (You won't be able to get sound on these so you'll need an **AirPlay speaker** (UE Boom) and in the Airplay settings on the AppleTV you'll need to choose chose that speaker for sound)
- ▶ Use **Keynote** or **Final Argument** apps for presenting
- ▶ Use **Explain Everything** for creating presentations on iPad
  - ▶ <http://explaineverything.com/final-argument-tutorials/>
  - ▶ <http://explaineverything.com/>



## 2. GOOGLE CHROMECAST

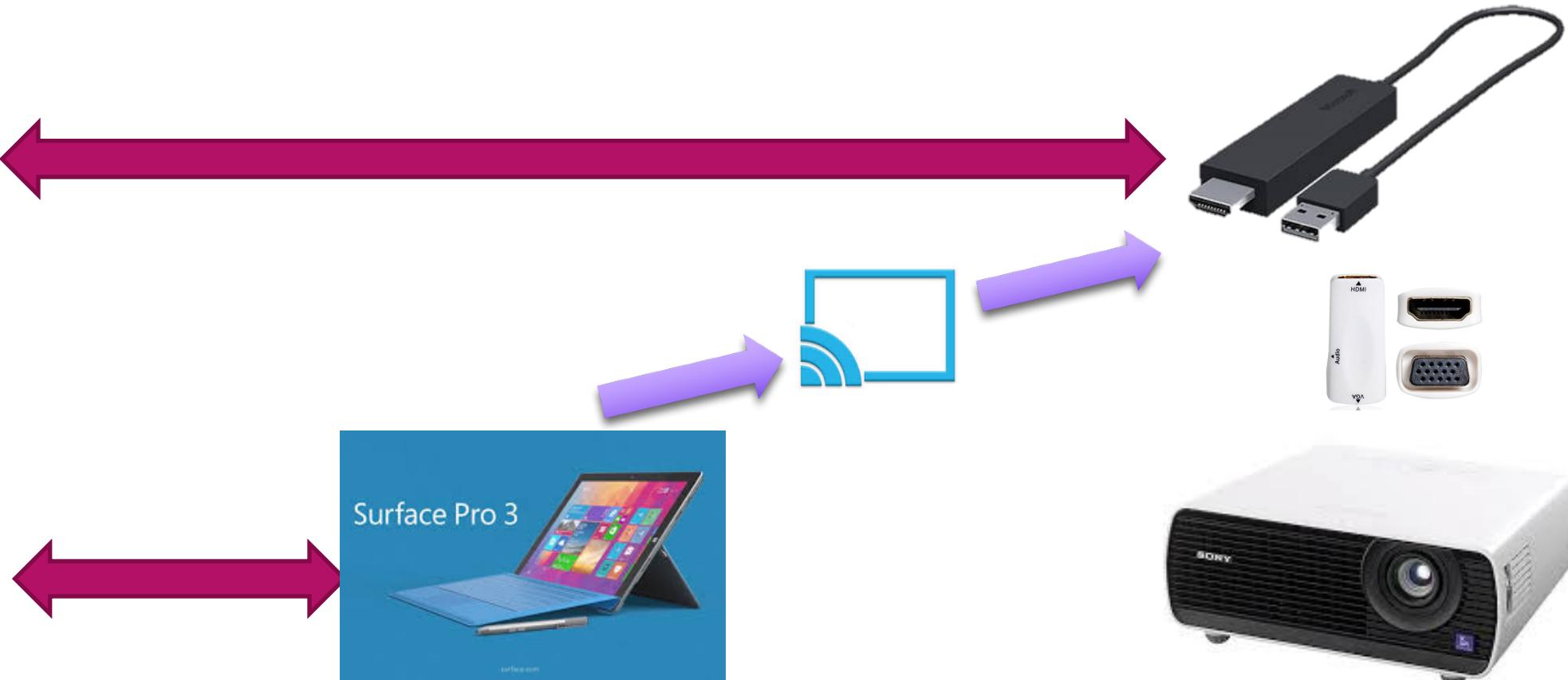


## 2. GOOGLE CHROMECAST

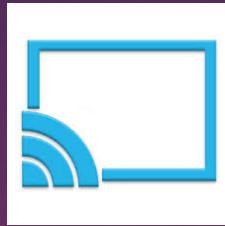


- ▶ **Android Tablet** that needs to connect to a WIFI network
- ▶ **Chromecast** stick that needs to connect to the same WIFI network
- ▶ Forget about using the college WIFI for this. Instead create your own using either
  - ▶ a WIFI router
  - ▶ or if you have an unlimited data plan on your phone, simply turn on a **WIFI hotspot on your phone**
- ▶ The **Chromecast** icon is displayed on your Android device. Turn it on to wirelessly mirror and transmit your screen to the Chromecast device which in turn is connected to the data projector. You'll need a female **HDMI-female VGA adapter** for most old data projectors
- ▶ NOTE: you can mirror the Chromecast browser from Windows and Mac computers & iOS using this method

### 3. MICROSOFT



### 3. MICROSOFT



- ▶ **Microsoft Surface / Windows Tablet** connects to a WIFI network
- ▶ **A Miracast compatible device** connects to the same WIFI network
- ▶ Forget about using the college WIFI for this. Instead create your own using either
  - ▶ a WIFI router
  - ▶ or if you have an unlimited data plan on your phone, simply turn on a **WIFI hotspot on your phone**
- ▶ The **Miracast** icon is displayed on your Surface or table. Turn it on to wirelessly mirror and transmit your screen to the Miracast compatible device which in turn is connected to the data projector. You'll need a female **HDMI-female VGA adapter** for most data projectors
- ▶ Microsoft sells its own device called "**Microsoft Wireless Display Adapter**"

## 4. Amazon Fire TV:

- ▶ Howto & Supported Devices
- ▶ For AirPlay, picture is not rendered as well as AppleTV



## 5. Android TV Boxes



- ▶ Some **Android TV Boxes** have WIFI & Ethernet and support all MIRACAST standards:
  - ▶ APPLE **AIRPLAY**
  - ▶ GOOGLE **CHROMECAST**
  - ▶ MICROSOFT **MIRACAST**



RECORDING

SECTION 3



# iPAD Pro

- ▶ Powerful enough to make **recordings** at the same time (iPAD is not)
- ▶ Within Final Argument you can drag a recording straight to YouTube
  - ▶ Example recordings



# RECORDING -



## ► SWIVL

- ▶ The camera follows you
- ▶ Remote to zoom in/out
- ▶ Save to cloud
- ▶ \$249

<http://www.swivl.com/#top>

# RECORDING - MOVI

## ► MOVI – “The Live Event Camera”

- ▶ 1 button sharing
- ▶ 9 different shots from 1 camera
- ▶ Tap to cut between shots
- ▶ Pinch zoom
- ▶ Drag to pan
- ▶ Movement tracking
- ▶ \$299 - \$549



<https://getmovi.com/videos>

# Simple Recording Devices



- ▶ Photo
- ▶ Audio
- ▶ Video
- ▶ Notes
- ▶ Photo
- ▶ Audio
- ▶ Video
- ▶ Notes
- ▶ Photo
- ▶ Audio
- ▶ Video
- ▶ 360 Photos
- ▶ 360 Video
- ▶ VR

**Do You have one of these devices?**

# MEDIA HOSTING

SECTION 4

# Making **VIDEO** Recordings Available – Media Hosting

- ▶ Upload to **YouTube**
  - ▶ **Private** (only you)
  - ▶ **Unlisted** (anyone with URL)
  - ▶ **Public** (Listed in Google)
- ▶ Upload to **VIMEO**
- ▶ Upload to **HEANET**
  - ▶ [media.heanet.ie](http://media.heanet.ie)
  - ▶ Using your WIT credentials



# Making **AUDIO** Recordings Available – Media Hosting

- ▶ Upload to **HEANET**
  - ▶ [media.heanet.ie](http://media.heanet.ie)
  - ▶ Using your WIT credentials
- ▶ Upload to **SoundCloud**
- ▶ Upload to **Podomatic**

