

# How to Effectively Use Your iPad to Teach Social & Communication Skills



**Chris Karter, MA**

(Educational Technology Specialist at Monarch Center for Autism)

**Rebecca Remner, M.S., CCC-SLP**

(Associate Teacher Supervisor and Speech/Language Pathologist at Monarch School)

# Who are we?



Christian Karter,  
MA



Rebecca Remner,  
M.S., CCC-SLP

# Christian Karter, MA

- Monarch Center's Educational Technology Specialist.
- I have worked for Monarch Center for Autism for 7 years.
- I also worked for Monarch Teaching Technologies and helped design elements of VizZle.
- My chief responsibilities are the data system and introducing new technology into the classrooms.
- Contact [karterc@bellefairejcb.org](mailto:karterc@bellefairejcb.org)



Christian Karter MA

# Rebecca Remner, M.S., CCC-SLP

- I have been a Speech Language Pathologist at Monarch Center for Autism for 8 years and this year have transitioned into a supervisory role.
- During my time here at Monarch, I have worked with students who present along the Autism Spectrum ranging from ages 3-22.
- Individual and group therapy services for non-verbal students, verbal students, lower functioning students with a functional tract, and higher functioning students with an academic focus while also incorporating functional skills.
- I have experience with AAC devices and using technology with all levels of ability.
- Now in my supervisory role, one of my focuses is to train Associate Teachers to develop and use communication supports throughout the day with their specific students and assigned academic, functional, and/or community goals and objectives.
- [remnerr@bellefairejcb.org](mailto:remnerr@bellefairejcb.org)



What do I think about when  
preparing to work on social  
skills with my child?

# Five Basic Tenets of Social Skills Programming

- Individuals with ASD want to establish meaningful social relationships
- If we want children to be successful socially, we must teach them the skills to be successful
- Successful social behaviors are not always ‘appropriate’ social behaviors
- Social success is dependent upon our ability to adapt to our environment
- Social interaction skills are not the equivalent of academic skills



# What is the root deficit?

- Skill acquisition deficit
  - Child does not possess the skill at an independent level
    - Novice → Intermediate → Mastery
- Skill performance deficit
  - Child possesses the skill but does not perform the skill
    - Many factors affect performance
      - Motivation!
      - Sensory sensitivities
      - Anxiety
      - Attention and impulsivity
      - Memory
      - Self-efficacy
      - Movement differences



# Why are visuals important?

- Most students with Autism Spectrum Disorders have difficulty processing information auditorily.
- Visuals have staying power.
- Visuals give more information than speech alone.
- Visuals are more concrete. There is nothing about tone of voice, sarcasm, etc. that you need to interpret.
- Visuals can help decrease anxiety.



# Utilizing Visual Supports to Facilitate Social Skills Instruction

- Determine where and when and in what context or activity you want to utilize a visual topic board or folder.
- Determine what your objective for the student is (i.e. greetings/partings, commenting, ask/answer questions, simple conversation, etc.).
- Determine what type of visual topic board or folder that can best meet the needs of the student in a particular environment.
- Provide a model for the student by utilizing the topic board or folder in your instruction and then provide the student with opportunities to utilize the topic board to meet social skills objectives.

**VIM, VOM,  
VEM!**



## Visual Instruction Mode:

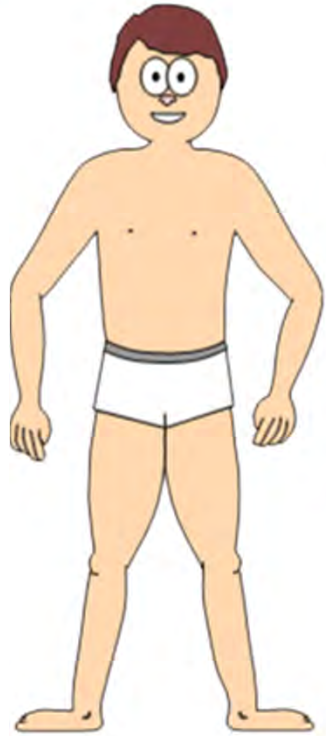
Visual cues used for the purpose of comprehension, which are imposed as an alternative to, or in conjunction with speech.

Visual Instruction Mode

# How to Brush Your Teeth – Step by Step Instructions

Activity Story

# Visual Instruction Mode



## Visual Organizational Mode:






















Visual cues used to represent the organization of an activity, routine, script, or schedule.




# Visual Organization Mode





## Lake Erie Monsters Hockey Game Visual Schedule


Event	Where	Who	What	How Long	Reward
<p>Lake Erie Monsters Hockey Game</p> 	<p>Quicken Loans Arena</p> 	<p>Me</p>  <p>Mom</p>  <p>Dad</p>  <p>Sister</p> 	<p>Drive to game</p>  <p>Wait in line</p>  <p>Find seats</p>  <p>Watch game</p>  <p>Take a break</p>  <p>Watch game</p>  <p>Drive home</p> 	<p>2.5 hours</p>  <p>60 minutes</p>  <p>60 minutes</p>  <p>30 minutes</p> 	<p>Eat a snack</p>  <p>Play a game</p>  <p>See mascot</p>  <p>Watch dancers</p> 


## Conversation Guide

- 

1. Say "Hello," and say the person's name so s/he knows you are talking to him/her.
- 

2. Ask a question about the other person.
- 

3. Use good listening skills by making eye contact and not interrupting.
- 

4. Make a comment or ask a question about something the person just told you. Don't change the subject.
- 

5. When it's time to end the conversation say, "It was nice talking to you. I'll see you later."

Visual Organization Mode

# Visual Expressive Mode:

Any visual cue used for the purpose of Expressive communication.

# Types of Topic Boards

- Static Topic Board
  - Topic board is a printed page.
  - Students utilize the board as a visual support to produce language.
  - Students or staff may point to visuals on the board.
  - Board can be organized by parts of speech with single words or by whole comments, greetings, questions, etc.



## Holiday Commenting Board



Visuals provided by VizZio™ ([www.goviz.io](http://www.goviz.io))

Visual Expressive Mode

## Mealtime Conversation Prompts

### Greetings:



### Conversations:

#### What did you do last night?



#### What is your favorite food?



#### What did you do at school today?



#### What are you doing this weekend?



Visual Expressive Mode



# Types of Topic Boards

- Manipulative Topic Boards
  - Board is set up so that components of the board can be moved or arranged by either staff or student to provide a visual support for communication
  - This type of board stems from the use of PECS and can be a nice step up from PECS for students who are ready to expand utterances.

# Types of Topic Boards

- Topic Folders/Flip Books
  - These can be made and used to expand social language to include multiple communicative turns.
  - These can be set up to include different phases of a conversation (i.e. greeting, turns, parting) or different categories of language (comments, questions, requests, etc.).
  - Staff may need to provide students a visual schedule for how and when to use each part of the folder.

hello

How are you?

What did you do last night?

What did you play last night?

What did you have for breakfast?

Who did you see last night?

What did you have for dinner?

What did you bring for lunch?

What did you do this weekend?

Where did you go yesterday?

What did you watch last night?

Who did you talk to last night?

What was your favorite part?

What happened next?

How was it?

Did you like it?

Did you have fun?

What else?

Who did that with you?

What didn't you like about it?

goodbye

see you later

OK

talk to you later

# Questions

Was it fun?

What else did you have?

Who did you go there with?

What was it called?

What did you do there?

Is that your favorite?

Did you like it?

Why did you do that?

Where did you get it?

Who else was there?

# Comments

That sounds fun!

I've had that too!

I've been there too!

I don't really like that.

I wish I could do that.

You should bring it in.

Sounds like you liked it

Awesome!

That's pretty cool!

I'm glad you had a great weekend!

# Types of Topic Boards

- Scene Displays

- Symbols that represent an entire event/activity. They contain the relevant background context, agents, objects, actions, and the interactions of the agents and objects.
  - Dynamic Scenes-full motion video clips that illustrate how the activity/event unfolds over time.
  - Static Scenes-digital photographs that capture a single prototypical moment in an activity/event.





## Visual Scene Display – Visiting the Grocery Store



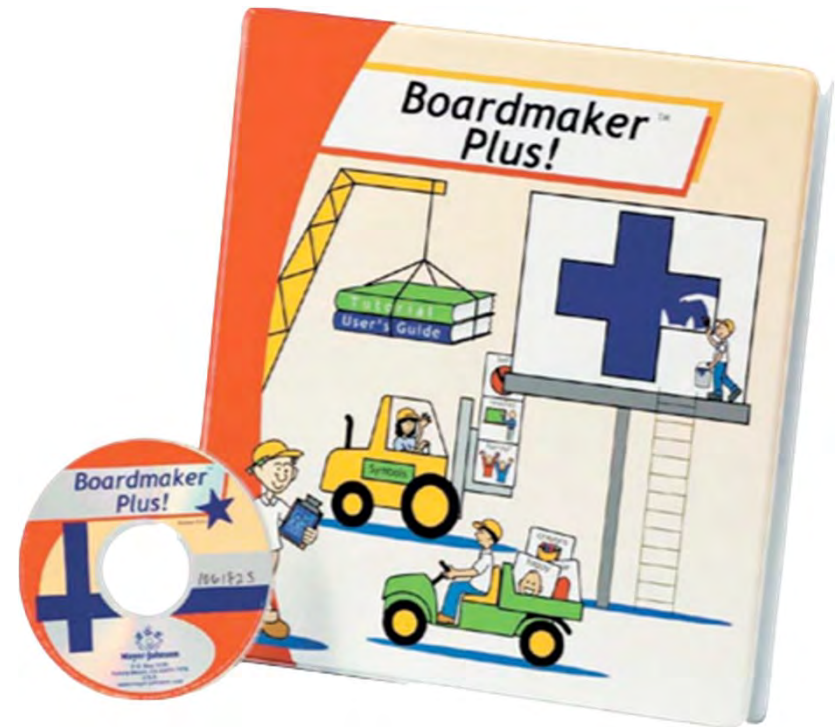


## Visual Scene Display – Requesting Activities in the Bedroom



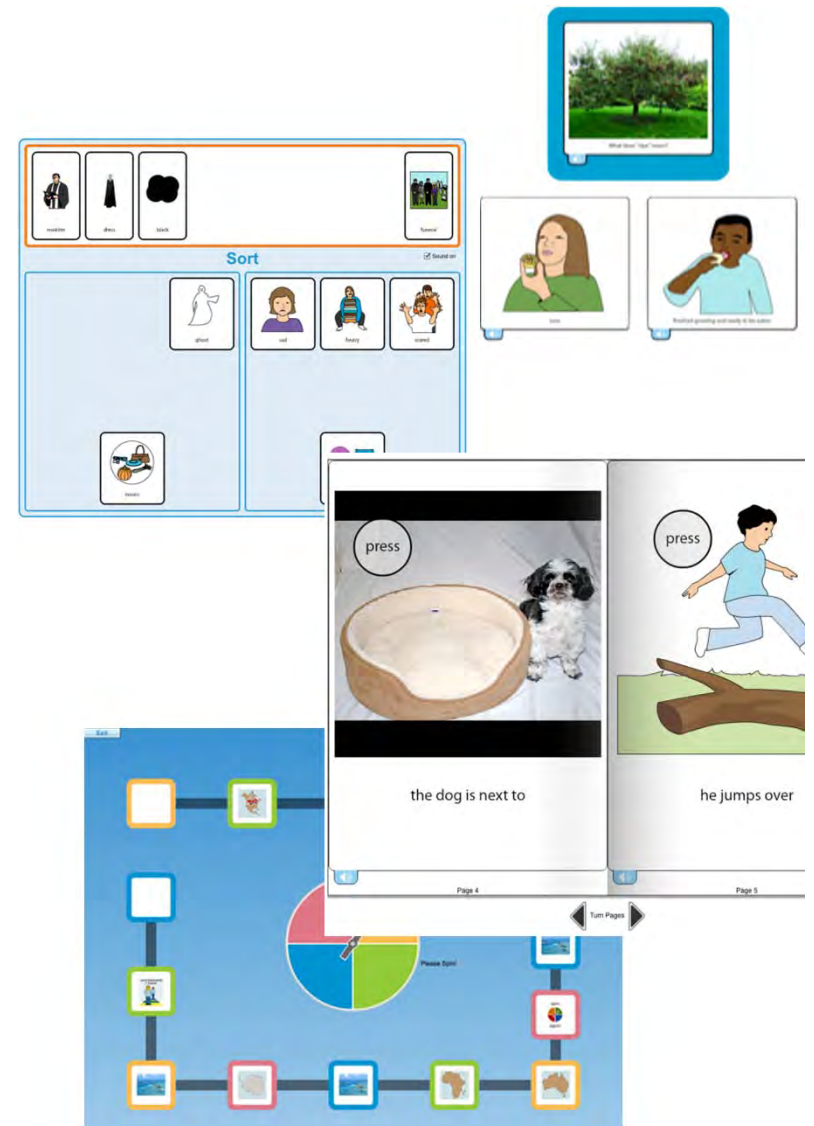
# Boardmaker

- Boardmaker is software made by Mayer Johnson which allows users to create visuals.
- Huge library of visuals, hand-drawn images, and ability to add your own images.
- Board maker is a great way to make analog Topic Boards
- Con: Boardmaker is expensive \$399, it requires the CD to be in the computer on each use.
- If your CD breaks you have to pay to get a new one.



# vizzle

- VizZle is an online subscription based software for teaching children with Autism.
- VizZle has multiple tools for teaching included through Stories, Games, Matching Exercises, sequencing, sorting and the ability to create visuals and schedules.
- For visuals VizZle recently added the ability to search and add pictures from Google Images
- VizZle has a lesson library of user created content.
- The ability to collect data on a student's progress.





# vizzle

- VizZle Player is available for both iOS devices and Android.
- Set playlists of items for a Student to work on.
- Unique student login. Each VizZle Login comes with 6 student player logins.



Price: \$Free

iPad Only

# vizzle

- VizZle just added a new template type to their software at the end of April –
- Topic Board
- It allows teachers to create open-ended communication experiences for students and is a great tool for visual learners.



Agents	Actions	Adjectives	Objects
 The girl	 pulls	 a black	 suitcase
 The boy	 throws	 a pink	 soccer ball
 I	 kicks	 a green	 cup

# Topic Board Template Demo



# Toca Hair Salon 2





















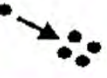



















- Apps can be integrated with topic boards.
- Fun cause and effect app for kids.
- Can use to teach about growing, cutting and colors too.
- You get to be the stylist and cut and change hair however you want. You can also make the hair grow and recut it again.
- You can take pictures of your work and share it with others.



Price:  
\$2.99

+ Universal

# Apps with Topic Boards

WHO	ACTION		Descriptors	Prepositions		WHAT	
I 	cut 	straighten 	pretty 	on 	off 	scissors 	hair 
he 	comb 	dye 	ugly 	above 	below 	shampoo 	comb 
she 	grow 	wash 	funny 	with 	through 	curling iron 	hair dryer 
boy 	shave 	dry 	happy 	in 	out 	glasses 	hair clip 
girl 	curl 	style 	colorful 	before 	after 	ribbon 	shave 

# Cookie Doodle






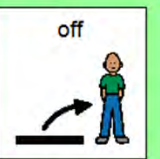





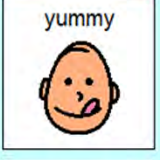
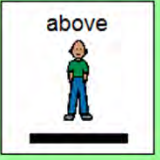
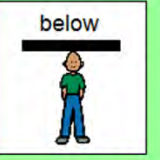

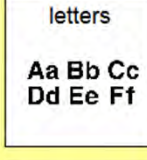
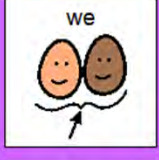



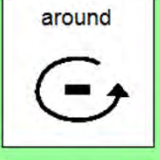
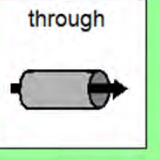





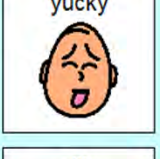
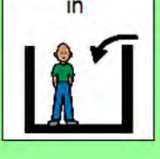
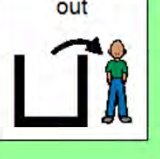
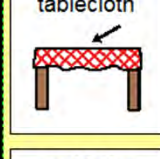

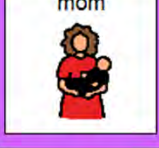





- By Shoe the Goose
- Cookie doodle is a fun activity which has some great educational benefits as well!
- Fine Motor Skills: tapping, pinching, tilting, twisting, shaking, and stirring.
- Sequencing: Each recipe has a variety of sequential steps required to make a cookie
- \*Reading and pre-reading: The ingredients text and images are on the same screen. As ingredients are added, they are checked off to assist with word-picture association.



Price: \$.99  
+ Universal



# Apps with Topic Boards

WHO	ACTION		Descriptors	Prepositions		WHAT	
							
							
							
							
							

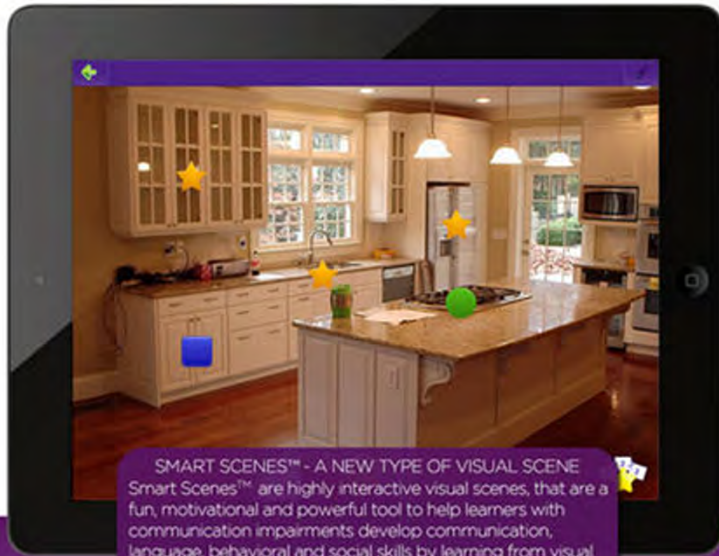
# Autismate

- A scene cue based AAC app
- Create Scenes from the stock library or take your own pictures. You can create hotspots with quizzes to help describe the scene or things going on in the scene.
- The student can then use the built in AAC app to communicate about items in the scene.
- GPS functional to activate scenes based on location.
- Also create visual schedules to go with the scene.
- Great content sharing abilities via email or through iTunes.
- Ability to backup changes.



Price: \$149

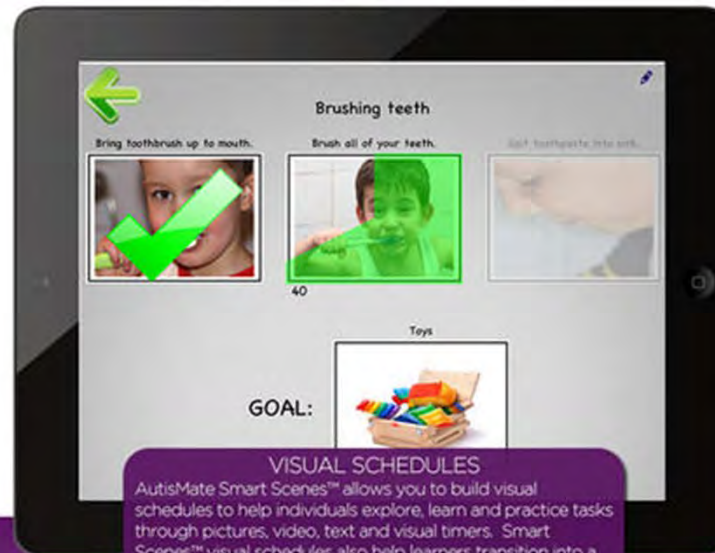
iPad Only



**SMART SCENES™ - A NEW TYPE OF VISUAL SCENE**  
Smart Scenes™ are highly interactive visual scenes, that are a fun, motivational and powerful tool to help learners with communication impairments develop communication, language, behavioral and social skills by learning from visual scenes, visual stories, visual schedules and video modeling.



**VIDEO MODELING**  
AutisMate Smart Scenes™ use video modeling, a research-based tool, that teaches socialization and behavioral skills. Personalize Smart Scenes™ video modeling for the learner making it easier to learn by watching and imitating videos of their actual environment and experiences.



**VISUAL SCHEDULES**  
AutisMate Smart Scenes™ allows you to build visual schedules to help individuals explore, learn and practice tasks through pictures, video, text and visual timers. Smart Scenes™ visual schedules also help learners transition into a new environment or teach appropriate behavior.



# Video Modeling

- Video modeling is a method of teaching that uses video recordings or live video to provide a video model of instructions on how to carry out a task, behavior, or skill.
- There are 4 types of video modeling
  - Basic Video Modeling – video filmed of someone other than the viewer of the video performing a task or skill.
  - Self-Modeling – The video is of the viewer performing the task or skill
  - Point of View video modeling – video is recorded from the point of view of the viewer
  - Video Prompting – consists of multiple steps to break down the task. Either the viewer or someone else can be the subject.
  - <http://autismpdc.fpg.unc.edu/content/video-modeling>

# Point of View

- Point of view video modeling has a large potential of growth in the coming years as technology develops.
- Participants in various sporting and recreational activities are starting to make use of a camera called a GoPro camera. It is essentially a very durable camera that can be worn.
- They retail starting off at \$199



# Video Modeling

- The iPad or a tablet are perfect for video modeling with a student.
- They allow you to have many videos stored right on the device and have ready access to them.
- You can also record new videos on the fly.
- Software can be downloaded onto the iPad to edit videos or pictures.
- If planning on buying an iPad for video modeling I recommend getting one with at least 32 Gb, as this will give you enough space to edit and store videos on the iPad.



# Video Modeling Examples

# Video Modeling Teleconferencing

- ◆ 10 years ago realtime video conferencing setups were expensive.
- ◆ Now in most mobile devices there are cameras built into them and can support a number of video conferencing methods including skype, facetime, and Google chat.
- ◆ This can be used for teletherapy and video modeling.





# FaceTime with Video Modeling

- iPads have built in video conferencing software called FaceTime.
- FaceTime is cross platform with iOS devices and Macs.
- Placing calls to another iPad through FaceTime is easy, and it's a great way to do video modeling.
- FaceTime allows for both video and Audio calls.
- Using Pictures in contacts you can make FaceTime is easier to use for a visual learner.



# Recommendations for using FaceTime for Video Modeling

- This can be done either in the room with the student or remotely.
- If you are doing the FaceTime video modeling in the room with the student it is recommended to mute the sound on both devices. This can be done in iOS 7 by simply swiping up and sliding the volume slider all the way down.
  - You want to do this so you do not get an echo effect which can be very shrill and jarring.
- If you are doing it remotely you want to turn up both devices volume so that the student can hear any audio instructions along with the video model.

# Video Modeling Apps

# Magic Shoes

- By New Bricklyn
- Step by step instruction on tying shoes.
- Bunny ears and tree squirrel lacing methods
- Easy to follow video instruction
- Photo capture or selection and email sharing



Price: \$1.99

iPod Touch  
iPad 2x

close tie laces



bunny ears



tree squirrel



videos

close tree squirrel start

## Start

This is a fun method that utilizes a kid friendly story and movements that help kids understand and remember the basic steps to shoe tying.

Tell the child to create "tree roots" by making a starter knot. Make a tree with a long thin loop; hold the loop in the child's right hand.

With their left hand, take hold of the lace and tell them that a squirrel runs around the tree and jumps into the hole under the tree and comes out the other

1 2 3 4 5 6 7 8

boy girl



touch here

# Magic

# Shoes



tie laces share



# PuppetPal HD

- Create custom scene cues.
- Default characters & scenes, You can add your own.
- Record your own voice.
- Record your scene for playback.



Price: Free  
+ universal



# Puppet Pals 2: All Access

- Sequel to Puppet Pals 1 allows you to create scenes and place the student into the scene using their image.
- You can record your own voice as a narration.
- New built in characters and backgrounds, use your own backgrounds to engage the students.
- Can also be used for social story play to help students discuss events in a therapeutic way.



Price: \$4.99

+ universal





# Model Me

- Model Me Going Places 1 & 2
- By Model Me Kids, LLC Video modeling for students with autism.
- Appropriate behavioral skills when going places.
- Audio Narration for slides with text to support.
- Built in locations include Hairdresser, Mall, Doctor, Playground, Grocery Store, and a Restaurant



Price: Free  
+ Universal



# Video Modeling: Setting Yourself up for Success



# Disclaimer - Warning

- Any technology can make a difference in people's lives.
- However, any technology is a tool. Think of it like a violin.
- Someone using new technology will need a lot of practice and support.
- Practice should be in as many settings as possible, to help generalize the skills.
- As a parent or professional you will need knowledge of how to use it.
- If you introduce games and videos right away you will have difficulty introducing anything else.



# Minimize / Restrict

- It is far easier to further introduce features later than to have everything available right away.
- Minimize the content that is placed on the device initially, and keep the restriction settings on.
- Restriction setting can be found under Settings > General > Restrictions
- Recommend this even if planning to use this as an entertainment device, as it minimizes the learning curve.
- Professionals can further restrict the iPad using the “iPhone Configuration Utility” provided by Apple.



# Restricting an App

- On an iPad, iPhone, or iPod touch if a student wishes to exit out of the application, they can exit by just pressing the home button. This is not ideal for the classroom.
- Guided Access
  - This is a feature that was released with iOS 7 that allows you to set a passcode to lock an app in place.
  - Through guided access you can also restrict what areas of the screen are affected by touch. This can be used to restrict use of buttons that could allow a user to change settings in the app.



# Taking Photos or Videos on the iPad

- When taking photos or videos on an iPad it is important to be aware of the orientation of the device.
  - For video taking it is generally recommended to flip the iPad horizontally.
  - This will ensure the video is in landscape.
  - For photo taking the orientation of the picture will depend on the subject, and the need to remove backgrounds.





# Tips for Filming Video

- Children with Autism can be distracted by interference in the background of your video.
  - This can be items in the background even sounds.
  - Try to stage the setting.
  - If you do not have a steady hand they do make tripod mounts. They usually are around \$30.
  - This will allow you to focus more on the video and not so much on holding the iPad steady.



# Editing Photos on the iPad

- The iPad has some built in photo editing abilities.
- Enter into the photo app.
  - Find the photo you wish to edit.
    - Tap the edit button in the top right corner.
    - From here you can rotate a picture, enhance a photo, apply filters, remove red eye, and crop.
    - For removing backgrounds or enhancing a photos it is generally recommended to edit them on a computer using Adobe Photoshop or Gimp.



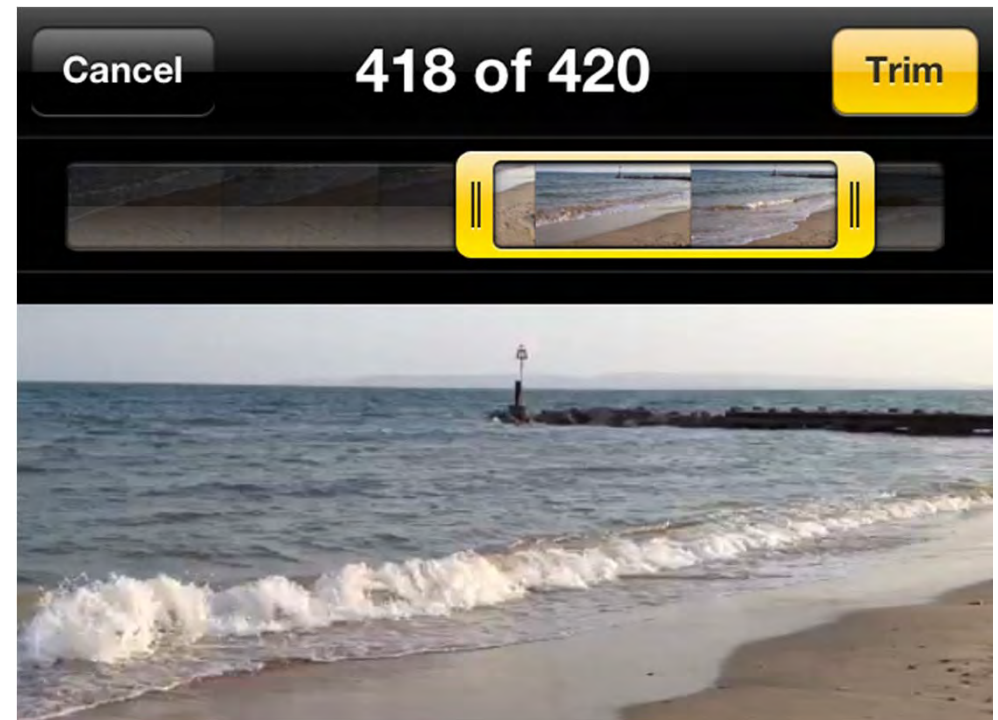
# Apps for Image editing

- Adobe Photoshop Touch  
\$9.99
  - Layers, cropping, gradients, clone, filters, paint brush
- PhotoForge 4 - \$2.99
  - Layers, color balance, curves, contrast.
- Photogene - \$2.99
  - Doesn't support layers or granular changes, many filters and effects, many export options.



# Video Editing on the iPad

- iPads only have one video editing feature built into them natively.
- Trimming video from the Photos app you can select a video and Trim it – dragging the front or end brackets removing footage from the front and or the end of the movie.
- It is genuinely recommended to use a 3<sup>rd</sup> party app for video editing.



# iMovie

- W/ iMovie you can edit videos right on the iPad.
- Create title screens, cut trim and manipulate multiple videos together in a timeline fashion.
- Add or detach audio.
- Can also import videos through iTunes.
- There are a lo
- New iPads after October 2013 can download any if the iLife/ iWorks apps for free – iMovie is included in this bundle.



Price: \$4.99 or  
free  
iPad & iPhone



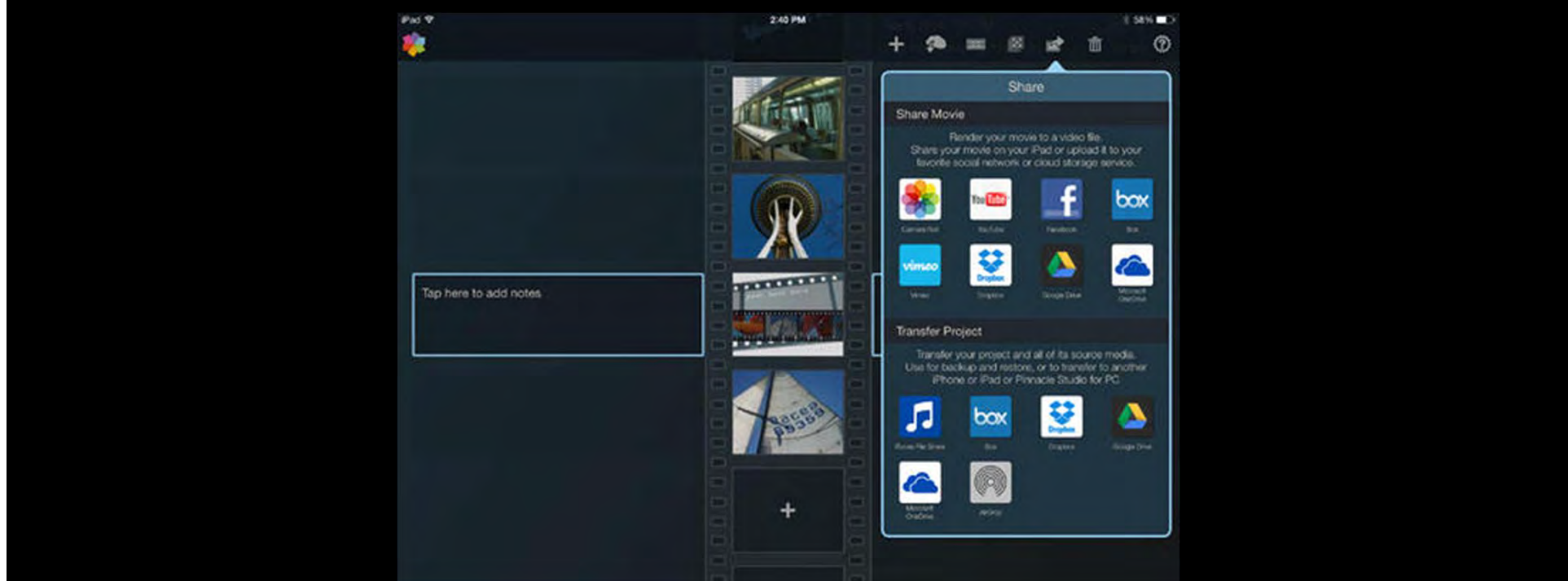
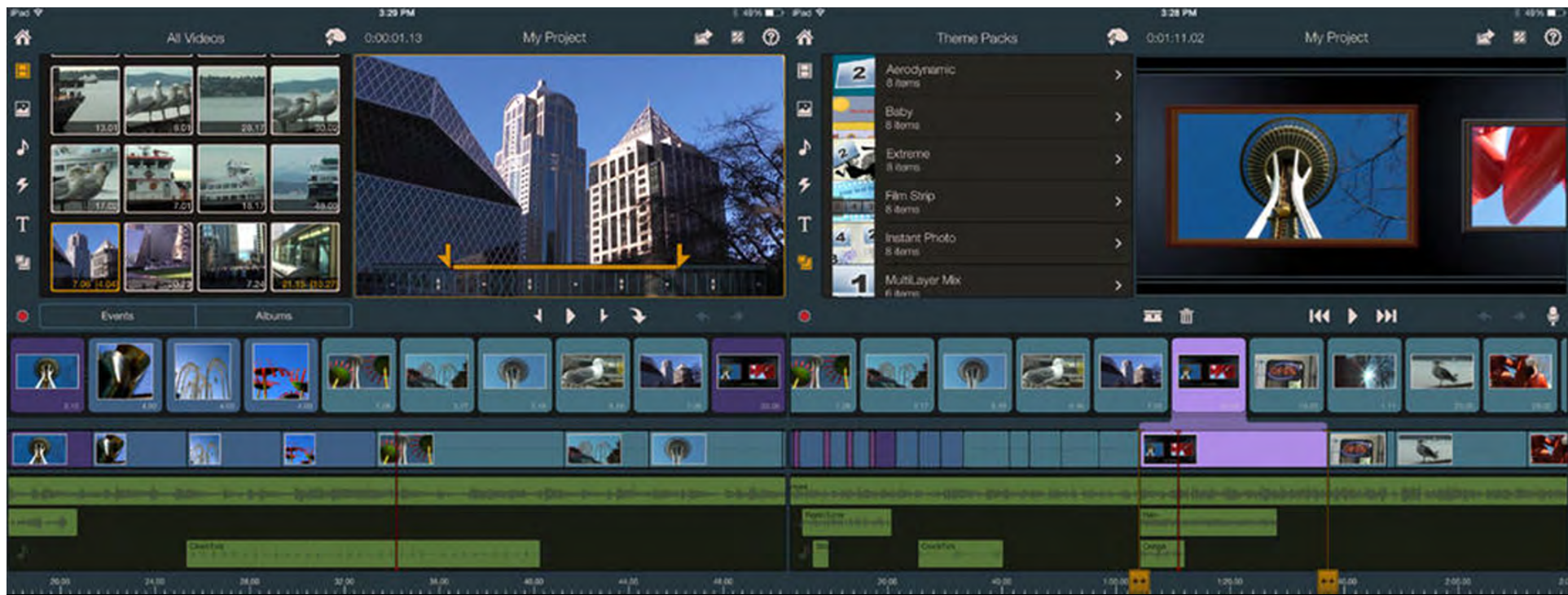
# Pinacle Studio

- Access media from Box, Vimeo, Dropbox, Google Drive and Microsoft Skydrive (in-app purchase)
- Capture video and photos from within the app
- Gesture interface in editing.
- Precision editing.
- Many effects such as slow motion.
- Export in 1080p to a wide variety of services such as box, facebook, youtube.

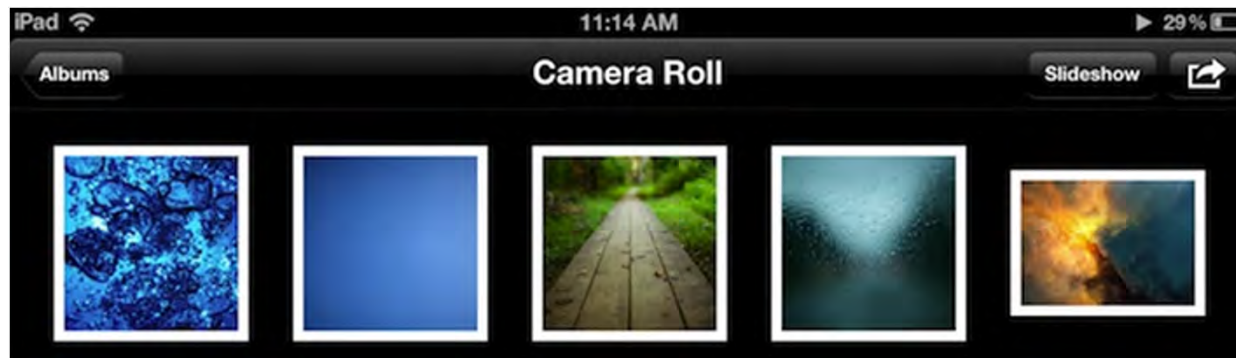


Price: \$14.99

iPad



# Where do iPads Store Pictures?



- Camera Roll: Found under the Photos app. Camera roll stores all of the pictures that you have taken using the built in camera of the iPad or saved from another source such as the internet.

# How to get Content on/off of an iPad

- If you wish to load videos onto an iPad, the best way to do this is through iTunes.
- On a PC through iTunes you can tell it to sync videos from a pictures folder.
- On a Mac you can tell it to sync an album from your iPhoto Library that contains videos.
- To remove videos off of an iPad simply connect it to a computer via a sync cable (30 pin or lightning) and a “drive” will appear that is the iPad. Under the iPad there is a folder labeled DCIM - this is the folder where all the pictures and videos are stored.





# Photo Stream

- Photo Stream: This feature is only enabled if you have iCloud on.
  - Photo Stream are photos that were taken on your device. They are then uploaded to iCloud where they are synced to other devices that have Photo Stream / iCloud enabled with your Apple ID.
  - Photo Stream is not a backup solution.
  - Photo stream will continue to sync the photos from the last 30 days.
    - Each mobile device will hold in its photo stream the last 1000 photos.
    - Photo Stream FAQ:  
<http://support.apple.com/kb/ht4486>





# Photos From a Computer

- You can sync photos from your computer to your iPad.
- Events from My Mac / Events my PC – These category of pictures were synced from a computer to the iPad.
  - These photos can be used in other applications but they cannot be directly deleted off the iPad.
  - These pictures are managed (added/removed) through iTunes.

# Backing up your device

- 2 ways of Backing up an iPad.
  - iCloud or a computer using iTunes
  - Computer using iTunes
    - Pro: Free
    - Pro: Faster
    - Con: You have to remember to backup your device
    - Con: If computer is damaged or stolen you will lose your backup
    - Extra steps you may have to go through



# iCloud Backup

## – iCloud

- iCloud is my preferred route of backing up personal devices.
- iCloud automatically creates delta backups (just the changes) to iCloud.
- iCloud users are given 5 GB of free space, past that you can purchase additional space up to 50 GB.
- Multiple devices can backup to the same iCloud account.



# iCloud Pros/Cons

- Pros: Automatically backs up overnight if left plugged in and connected to Wi-Fi.
- Pro: Iterative backup, because iCloud is backing up just the changes it allows you to restore from an earlier version.
  - If changes were made to an AAC app and I was
- Con: First backup, or if you are backing up a lot of new pictures or videos can be slow.
- Con: Restore from backup can take a hours if there is a lot of information.



# Questions ?

# Monarch Services





# Monarch Center for Autism

## Services

- Preschool & Day School
- Transitional Education Program
- Boarding Academy
- Adult Autism Program & Residence
- Extended School Year
- Summer Social Language Program
- Family Training, Support & Social Activities
- On-Site Consultation & Therapy
- Online Resource Center





# Monarch Center for Autism

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