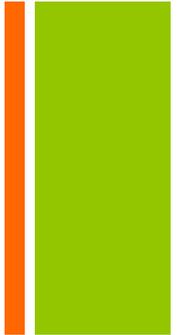




Using Video Modeling and Video Prompting to Teach Employment Skills

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Vidya Munandar, University of Kansas

+ Who Are we?



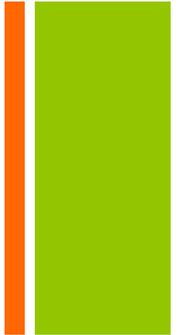
Ryan

- Currently an Assistant Professor of Special Education at BYU
- Former high school special education teacher
- Received my Ph.D., from the University of Kansas focusing on Secondary Transition
- Currently conducting multiple studies using video modeling, video prompting and augmented reality to teach transition related skills
- Conducts Professional Development on how to implement VM and VP across the country

Vidya

- Currently a doctoral student and Graduate Research Assistant at KU
- Former career counselor for college students with disabilities
- Received M. S. E., from the University of Kansas focusing on Autism Spectrum Disorder
- Currently conducting a study using video modeling, video feedback, and career coaching technique to teach job interviewing skills
- Involved in a completed study using video modeling to teach customer service skills for an employee with autism

+ Webinar Objectives



- Discuss the basic principles and research surrounding video modeling and video prompting
- Describe the general ways video modeling and video prompting can be implemented
- Give practical ideas on how video modeling and prompting can be incorporated into your vocational work with students

+ Video Modeling is Based on Social Learning Theory

- Social Learning Theory (Bandura, Ross, & Ross, 1961): individuals learn by observing the behaviors of those around them
 - Children observed adults playing either aggressively or non-aggressively with a Bobo doll; those who witnessed aggressive play performed significantly more aggressive acts than the control group or non-aggressive play group
 - Modeling leads to faster behavioral acquisition than reward- and punishment-based behavioral interventions endorsed by B. F. Skinner (Bandura et al., 1961)



Observational Learning Theory



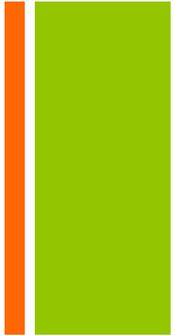
vimeo



We learn by watching

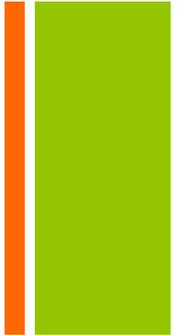
Bandura (1977)

+ Video Modeling



Video modeling is a form of observational learning in which desired skills and behaviors are learned by watching a video demonstration and then imitating the behavior of the model.

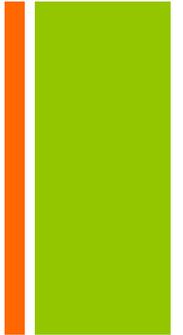
+ Video Self-Modeling



- Video Self-Modeling is when a student watches him- or herself perform a task at a greater capacity than he or she could typically manage
- VSM videos are primarily created in 2 different ways
 1. You film the students performing the desired behavior unprompted and edit out the mistakes.
 - So if you are trying to teach social initiations you film the student for an hour and then make a video using the one social initiation they performed during that hour.
 - This can take a very long time
 2. Instruct the student to perform the task in the desired manner, prompting them along the way.

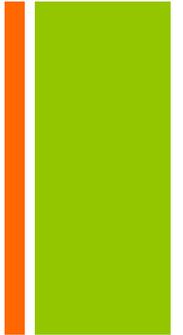
The video is edited to remove the prompts

+ Video Feedback



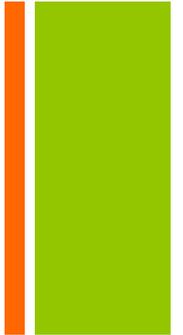
- Video Self-Modeling involves:
 - Videotaping a student performing specific behaviors
 - Co-reviewing the videotape to evaluate the behavior performed

+ Video Prompting



- Video prompting uses the same video that would be created for video modeling, but adds breaks for the learner to perform that step of the task
- Video Prompting is good to use for students who may have a hard time remembering multiple steps at a time.
- This is what I have used most in my practice and my research.

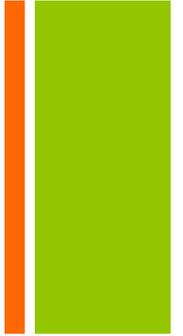
+ Video Priming



- Think of it like priming a pump
- The video is shown prior to completing the task. This may be several hours before hand.
- An example is an individual may watch a video prior to work that discusses all of the things they need to know for work such as
 - How their uniform should look
 - Commonly performed tasks
 - What to do if they don't know how to do something
- It is meant to remind students rather than teach new skills



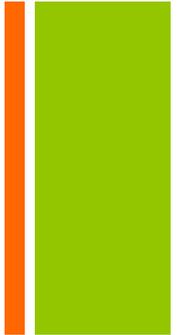
Students who benefit from VM



- Students who are visual learners
- Individuals who may have difficulty processing language
- Individuals who rely heavily on prompts, cues, or reminders about tasks or routines
- Individuals with
 - Autism
 - Traumatic Brain Injury
 - Intellectual Disability



Skills Successfully Taught Using VM



■ Vocational Skills

- Cleaning kennels
- Locating items in a library
- Preparing first aid kits, making copies, sending a fax
- Cashier: providing change
- Opening a combination lock

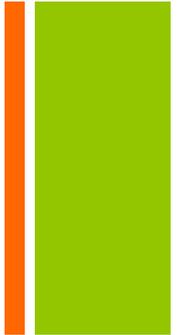
■ Functional Skills

- Self-help (cleaning eyeglasses, zipping jacket)
- Setting a table, preparing orange juice, preparing letter to be mailed
- Purchasing/ordering fast food
- Hygiene

■ Social/Communication Skills

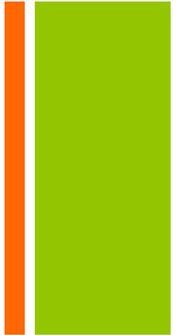
- Job Interviewing
- Conversational speech
- Understanding different perspectives
- Social initiations
- Transitioning between activities

+ Device Considerations



- VM and VP is versatile and can be created and viewed from any device that allows video playback.
 - iPad or other tablet (Kindle Fire, Nexus, Android, etc.)
 - Smartphone
 - iPod
 - Laptop
 - Computer
 - TV/DVD player
 - Other portable media devices
- I typically use iPads which allows me to edit (iMovie) and deliver the videos on a single device.
- Best device is one that you have access to

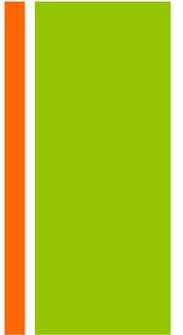
+ Create a Video Library



- You should use the videos with as many students as possible
- One idea is to create a video library of videos future students can use
- Get consent from the models in all of the videos so they can be used with other students
- A well done video can be used for many years with countless students
- I have done this successfully with google drive, dropbox, HP Reveal



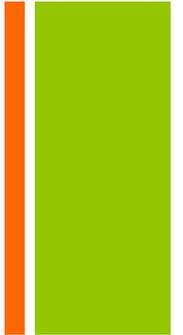
Steps for Implementing VM and VP



- 1. Obtain necessary equipment
 - Recording device: video camera, iPad, or smart phone
- 2. Identify target tasks
 - Tasks need to be observable
- 3. Observe the student performing the task without any assistance
 - If the student can already perform the task there is no reason to create a video
- 4. Task analyze the skill



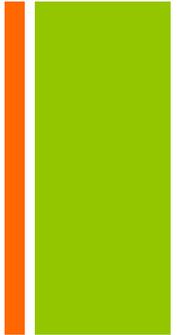
Steps for Implementing VM and VP



- 5. Decide what type of video are you going to make?
 - Video Modeling, Video Prompting, Video Self-Modeling or Video Priming
- 6. Which perspective?
 - Point-of-view or Spectator
- 7. Who will serve as your model?
 - Self (VSM), Classroom teacher, Teacher Aide, Peer, Employer, Co-worker
- 8. Create a script for filming the video based on the task analysis
- 9. Film each step of the task analysis



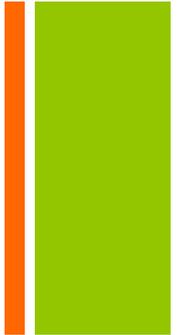
Steps for Implementing VM and VP



- 10. Edit the video making sure that each step in the task analysis is shown
- 11. Consider video delivery
 - Device and Application (Will the video will stop at the end of each step? This can be done using apps such as Keynote, HP Reveal or SnapGuide)
- 12. Load the video onto the device the video will be viewed from (smartphone, tablet, iPod, iPad)
- 13. Train student to operate device and access the video independently
- 14. Fading the video
 - Chunking, Time delay, Error correction, Scene deletion
- 15. Monitor and review progress

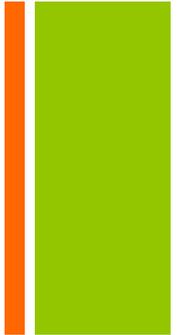


Tips and Tricks for using VM and VP in vocational settings



- Start with high impact videos
 - Skills you find yourself teaching multiple students all the time
- Add voiceover to the videos
 - This can be done after the video is created or simply providing commentary while filming the video
- Videos do not have to be perfect for them to be effective
- The model does not seem to make a huge difference
 - So use whoever is available
- Be creative and flexible
 - Use different perspectives and be willing to modify videos that are not working

+ Additional Examples & Augmented Reality



■ Dr. Kellems Youtube Channel

- <http://bit.do/videoprompting>
 - Already made VM and VP Videos
 - Task Analysis and data collection sheets are provided in links below videos
- Augmented Reality to trigger VM and VP videos
 - Recently I have been using augmented Reality as a means of triggering the VM and VP videos to start to play.
 - Students scan an image and that image triggers a predetermined video to start playing.
 - You could have pictures up around the job site at key locations that students could use to trigger a video to start playing about how to do that particular task.
- I use the HP Reveal App

+ Contact Information

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- Ryan is always looking for collaborators for research projects and is available to provide professional development to help your state, district, school or agency implement video modeling and video prompting
- I would also love to hear about your success stories with video modeling/prompting

