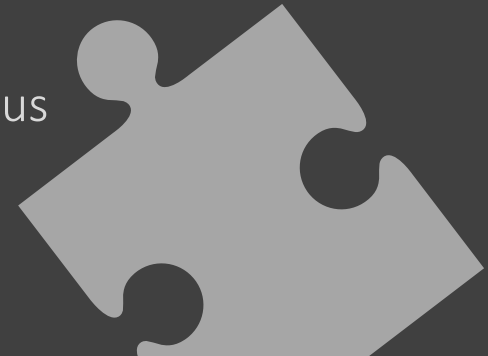




# Implementing Evidence Based Practices with **QR Codes**

For Students with ASD

Kris Baker, Autism Coordinator  
SSJCSS  
[kbaker@ssjcs.k12.in.us](mailto:kbaker@ssjcs.k12.in.us)



# QR Codes

QR is short for Quick Response, because they can be read quickly by a device with a scanning app.

## QR Scanners:

- [Quick Scan](#)
- [Bar Code Reader](#)
- [I-nigma](#)

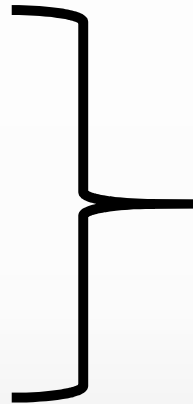
## QR Generators

- [QR Stuff](#) (qrstuff.com)



# What can you read/link with a QR Code?

- Text
- Documents
- Videos
- Websites



Which can all be  
converted into  
Evidence Based  
Practices!



# Why Research/Evidence Based Interventions?

Article 7 states that an IEP must contain the following:

- (4) A statement of the special education and related services and supplementary aids and services, based on **peer-reviewed research to the extent practicable**, to be provided to the student, or on behalf of the student, and a statement of the program modifications or supports for school personnel that will be provided to enable the student to do the following:
- (A) Advance appropriately toward attaining the annual goals.
  - (B) Be involved in and make progress in the general education curriculum in accordance with subdivision (1) and to participate in extracurricular and other nonacademic activities.
  - (C) Be educated and participate with other students with disabilities and nondisabled students in the activities described in this article.

# National Professional Development Center on Autism Spectrum Disorders

**EVIDENCE-BASED PRACTICES**

*\*Indicates practices with newly developed content (2015-2016). Select the practice to access these modules and downloadable resources.*

<b>Antecedent-based Intervention (ABI)*</b>	Naturalistic Intervention (NI)	<b>Self-management (SM)*</b>
Cognitive Behavioral Intervention (CBI)**	Parent-implemented Intervention (PII)	<b>Social Narratives (SN)*</b>
Differential Reinforcement of Alternative, Incompatible, or Other Behavior (DRA/I/O)	<b>Peer-mediated Instruction and Intervention (PMII)*</b>	<b>Social Skills Training (SST)*</b>
<b>Discrete Trial Teaching (DTT)*</b>	<b>Picture Exchange Communication System (PECS)*</b>	Previously Social Skills Groups
<b>Exercise (ECE)*</b>	Pivotal Response Training (PRT)	Structured Play Group (SPG)**
Extinction (EXT)	<b>Prompting (PP)*</b>	<b>Task Analysis (TA)*</b>
<b>Functional Behavior Assessment (FBA)*</b>	<b>Reinforcement (R+)*</b>	Technology-aided Instruction and Intervention (TAII)** Previously Computer Aided Instruction and Speech Generating Devices
Functional Communication Training (FCT)	Response Interruption/Redirection (RIR)	<b>Time Delay (TD)*</b>
<b>Modeling (MD)**</b>	<b>Scripting (SC)**</b>	Video Modeling (VM)
		<b>Visual Support (VS)*</b>

**\*\*** Indicates new EBP identified in 2014 review. Practice briefs are not available for these practices, but are currently being developed as part of AFIRM.

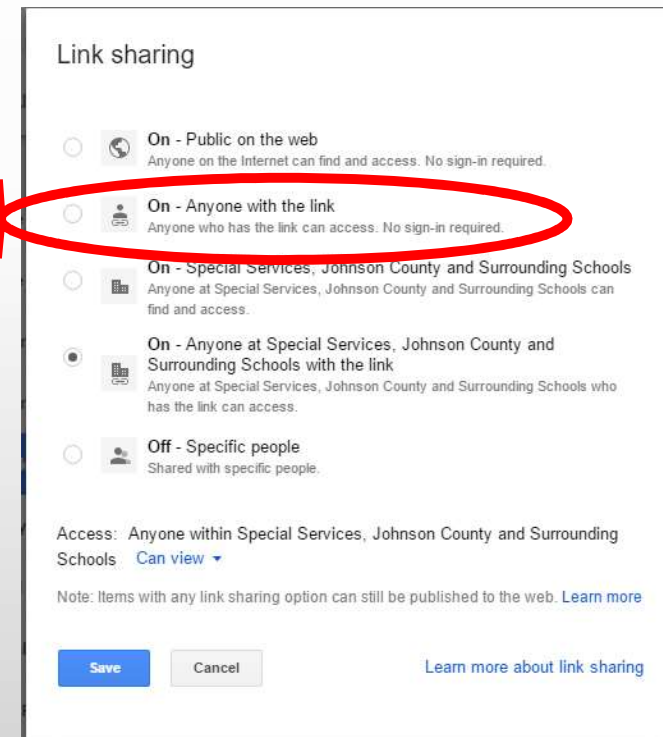
See the working definitions of each EBP in this excerpt from the 2014 Evidence-Based Practices for Children, Youth, and Young Adults with Autism Spectrum Disorder report. The full report is available here.

# Social Narratives

“Social narratives (SN) describe social situations for learners by providing relevant cues, explanation of the feelings and thoughts of others, and descriptions of appropriate behavior expectations.” (NPDCASD)

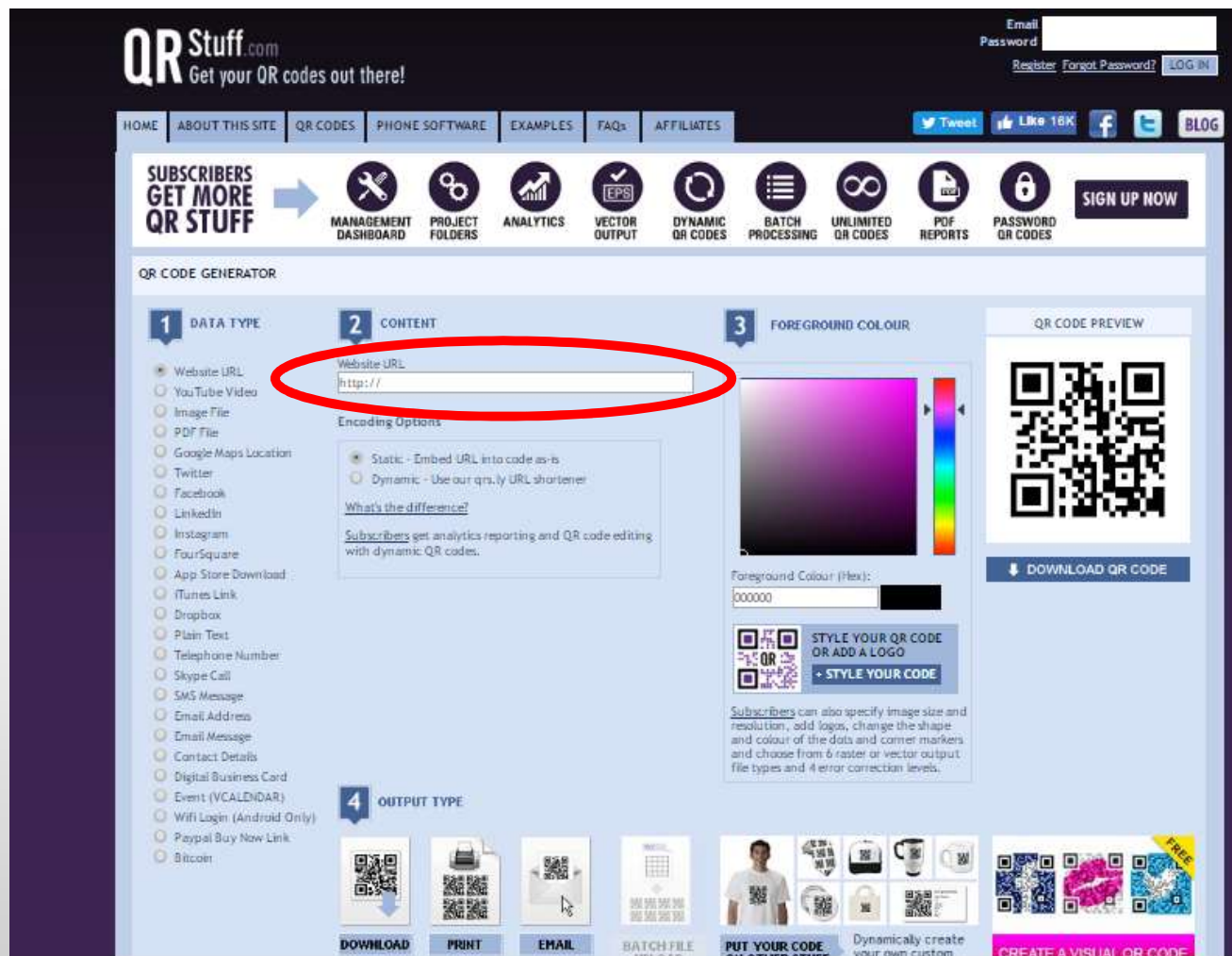
# How to: Link the QR Code to a Document (PDF)

- Upload the document into Google Drive
  - This gives the document a URL to link the QR code to the document, otherwise you need a paid account
- Change the sharing settings for the document
  - Right click on the document, choose **Get Shareable Link**
  - Click on **Sharing Settings**,
  - Click on the **drop down menu**, Click on **more**
  - Choose **On – Anyone with the link**
  - **Copy the Shareable Link** or
  - If you close the window out, Click on **Get Shareable Link**
  - Highlight and copy the link



# Open the QR Code Website (QR Stuff)

- Choose website URL
- Paste the link in content
- The QR code on the right will change
- You can either:
  - Right click on the code to copy it or
  - Click download QR Code and you will open the code like an image



The screenshot displays the QR Stuff website interface. At the top, the logo "QR Stuff.com" is visible with the tagline "Get your QR codes out there!". Below the logo is a navigation menu with links for HOME, ABOUT THIS SITE, QR CODES, PHONE SOFTWARE, EXAMPLES, FAQs, and AFFILIATES. A secondary navigation bar includes social media icons for Twitter, Facebook, and LinkedIn, along with a "BLOG" link. The main content area is titled "QR CODE GENERATOR" and is divided into four numbered steps: 1. DATA TYPE, 2. CONTENT, 3. FOREGROUND COLOUR, and 4. OUTPUT TYPE. In the "CONTENT" step, the "Website URL" option is selected, and the text "http://" is entered in the input field, which is circled in red. The "OUTPUT TYPE" step shows various options for downloading or printing the QR code, including "DOWNLOAD", "PRINT", "EMAIL", "BATCH FILE", and "PUT YOUR CODE ON A T-SHIRT". A QR code preview is shown on the right side of the interface.



# Reading the QR Code

- Paste the QR code into your document
- Scan with the QR reader on your device
- Choose – go to URL or watch video (screencast)



ISTEP testing



Breaks and Holidays – quick access for schools and parents



Going to the Zoo Document



Going to the Zoo Screencast

Going to the Zoo

Today I am going to the zoo.

There will be a lot of people at the zoo.

I need to stay with an adult and with my group.

I will see a lot of animals, I might not get to see ALL the animals.

There is a playground. I may not get to play on the playground.

I can only go to the playground if it is part of our schedule.

I should not climb on any walls or fences. My feet should stay on the ground to be safe.

There is a train at the zoo. I may not get to ride the train today. That is ok, I might get to come back another day.

When the day is over, it will be time to go home.

# Shadow Puppet – (free App)

## Audio social narratives with pictures

- Open app
- Take or choose images from your phone or device
- Record Shadow Puppet (narrative)
- Save Narrative with specific name
- When finished, email the video
- Copy the link address, and paste into the QR generator



How to go through the lunch line



Cleaning the bathroom

# Social Narrative for the Home

- PowerPoint
- Screencastify
- Pictures
- Audio



Social Narrative for calming activities in the home

# Narratives for Structured Work Systems



- Create with Slides or PowerPoint
- Present as a presentation with a Screencast App or Extension

Two Free Screencast options:

- On the web – [Screencast-O-Matic](#)
- Google Extension – [Screencastify](#)



Scan here for a tutorial on Screen Cast-O-Matic

# Visual Supports

“Any visual display that supports the learner engaging in a desired behavior or skills independent of prompts. Examples of visual supports include pictures, written words, objects within the environment, arrangement of the environment or visual boundaries, schedules, maps, labels, organization systems, and timelines.” (NPDCASD).

<http://autismpdc.fpg.unc.edu/>

# QR Code to Text

- Open QR Stuff (QR code generator)
- Choose Plain Text
- Type Text in Box
- Download the QR Code



What to do when you don't know what to do.



Formulas for Area

The screenshot shows the QR Stuff website interface. The top navigation bar includes links for HOME, ABOUT THIS SITE, QR CODES, PHONE SOFTWARE, EXAMPLES, FAQs, and AFFILIATES. Below the navigation bar, there are several icons representing different services: MANAGEMENT DASHBOARD, PROJECT FOLDERS, ANALYTICS, VECTOR OUTPUT, DYNAMIC QR CODES, BATCH PROCESSING, UNLIMITED QR CODES, PDF REPORTS, and PASSWORD QR CODES. A 'SIGN UP NOW' button is also present.

The main content area is titled 'QR CODE GENERATOR' and is divided into four steps:

- 1 DATA TYPE**: A list of options is shown, with 'Plain Text' selected and circled in red.
- 2 CONTENT**: A text input box contains the text 'If you don't know what to do you can: Ask for a break or a self-time out Ask for extra time'. This box is circled in red.
- 3 FOREGROUND COLOUR**: A color selection tool is shown, with the foreground color set to '000000'. A 'DOWNLOAD QR CODE' button is circled in red.
- 4 OUTPUT TYPE**: Options for 'DOWNLOAD', 'PRINT', 'EMAIL', and 'BATCH FILE UPLOAD' are shown.

The 'QR CODE PREVIEW' section shows a QR code that has been generated based on the input text and settings.

# Visual and Video Cues Around the School



These can be placed outside each office and/or classroom

Multiple uses and options:

- How to use the sensory room
- How to wash your hands
- How to log into a set program in the computer lab

Other options . . . .



Placed outside the cafeteria entrance for students

# Visuals to Supports for Academics – Linked to PDFs

## Math –

- Common Math Formulas
- Geometry Handbook
- PDF of “how to” or sample problems

## Language Arts –

- Graphic Organizers
- Vocabulary Development
- Essay Outline Formats
- Question Starters
- Sequencing Chart
- Constructed Responses



Geometry  
formulas and  
tips



Algebra How  
To



Common Math  
Formulas



Yes Ma'am  
Constructed  
Response visual



Sentence  
Starters



Sequencing  
Support



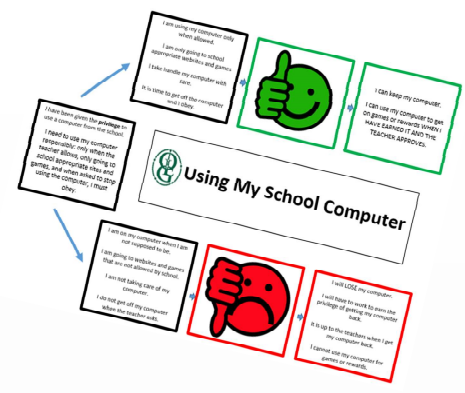
# Visual Supports for Behavior

- 5 Point Scales
- Consequence Maps
- Visual Cues
- Visual Expectations
- Visual Schedule



Visual Cue for Transitions

Voice Levels		
Level		
5		Outside Voice
4		Strong Speaker
3		Table Talk
2		Whisper
1		Quiet - NO Talking



Calm Down Checklist



Visual for Station Expectations



Visual Schedule Morning Routine



'I don't know what to do' Map



Voice Level Scale



Smurf® 5 Point Scale

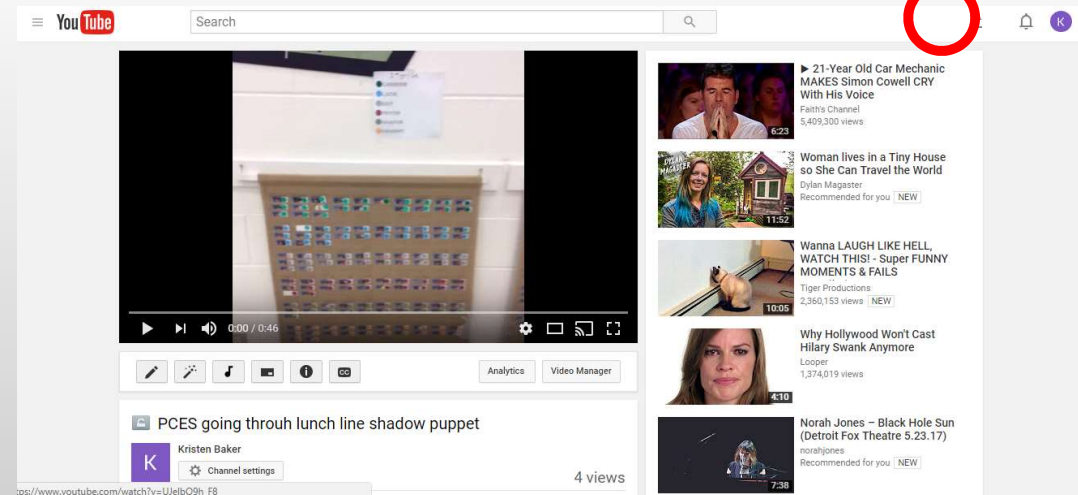
# Video Models

“A visual model of the targeted behavior or skill (typically in the behavior, communication, play, or social domains), provided via video recording and display equipment to assist learning in or engaging in a desired behavior or skill”  
(NPDCASD). <http://autismpdc.fpg.unc.edu/>

# Video Models

- Take a video with your phone or device
  - In photos – directly upload the video to YouTube
- or
- E-Mail the video to yourself
  - Open and download the video
    - When you download, the video will have a number or you can rename the file

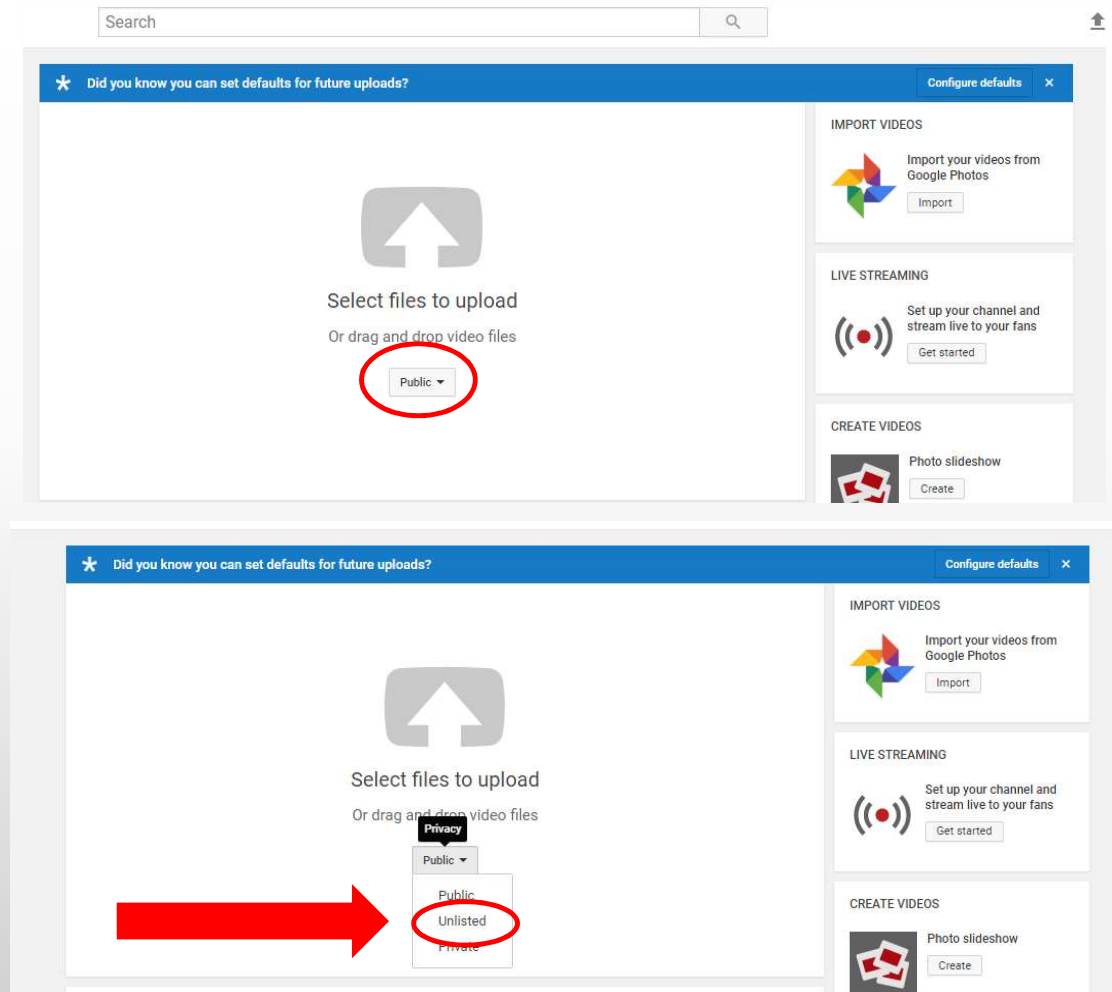
- Open **YouTube** to your channel
- Choose to **UPLOAD** a file by clicking the arrow



- Click on **PUBLIC** and then choose to make the file **UNLISTED**
  - Then **only those with the link** (which will be linked to the QR Code can view)

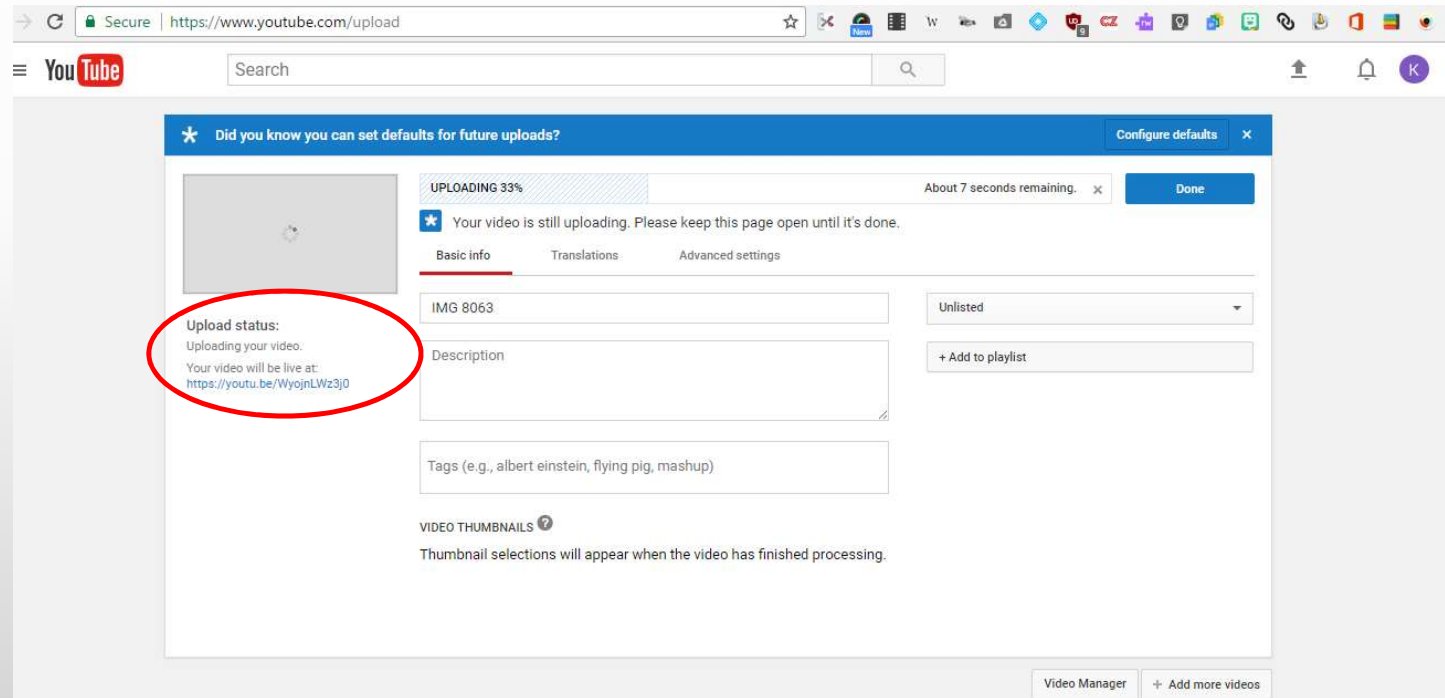


Scan here for a video on how to link a video to a QR code



# From YouTube to QR Code

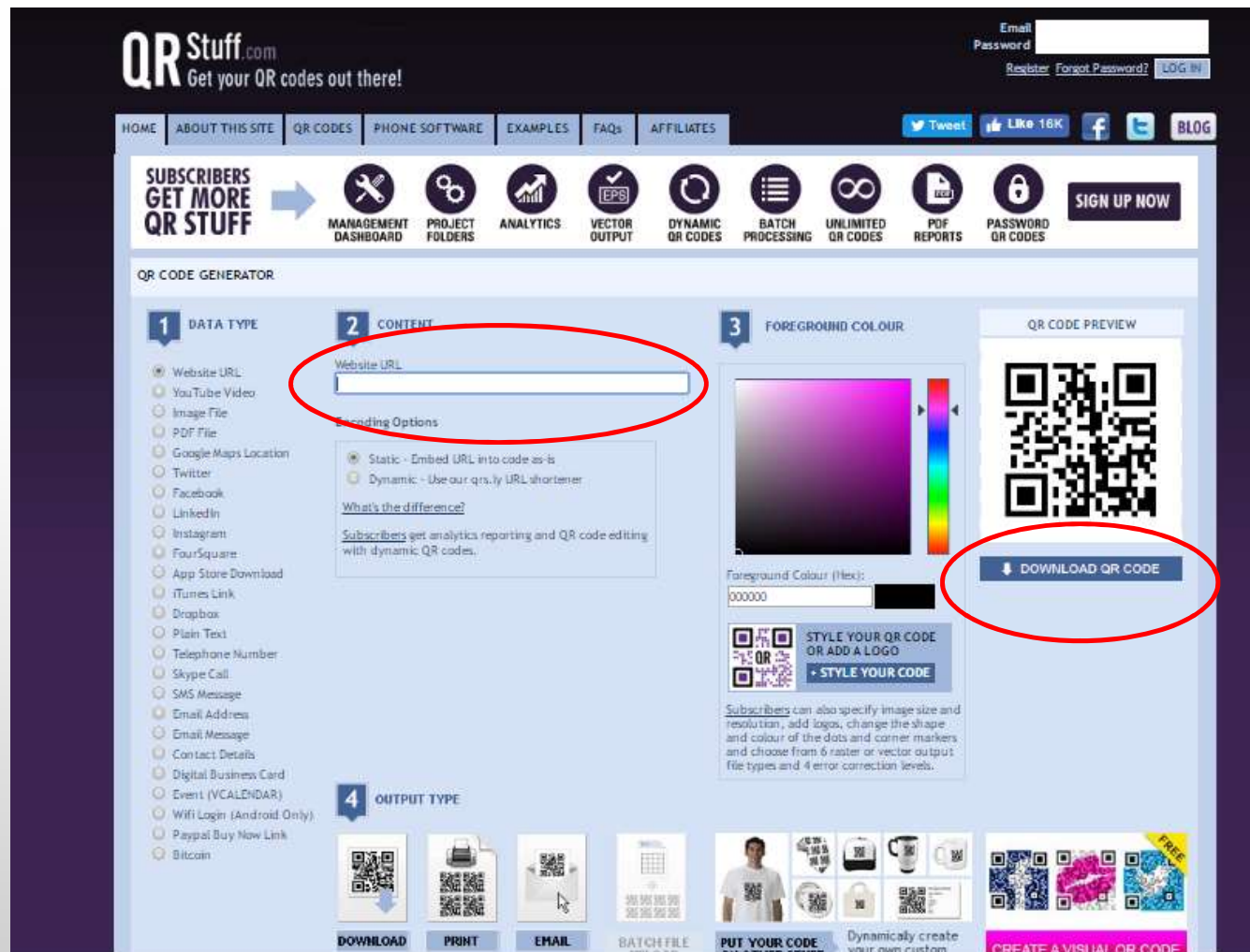
- Choose the file to upload (the video file or number you downloaded)
- Copy the video URL



- Paste the video URL link into the QR generator
- Then download the QR Code
- Copy the QR Code
- Paste the QR Code



Scan here for a video on how to link a video to a QR code



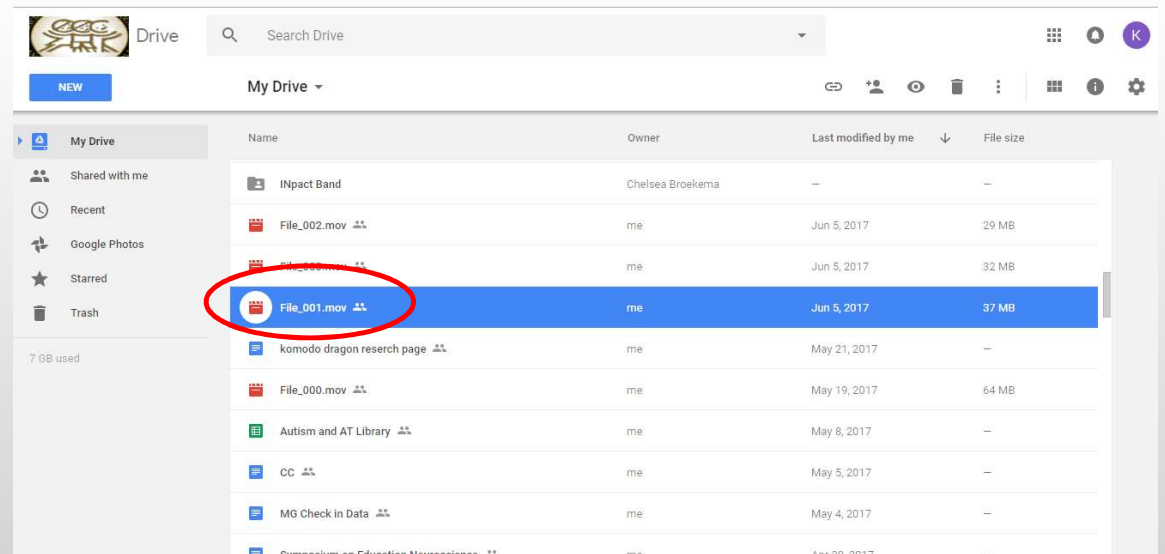
The screenshot displays the QR Stuff.com website interface. At the top, there's a navigation menu with links for HOME, ABOUT THIS SITE, QR CODES, PHONE SOFTWARE, EXAMPLES, FAQs, and AFFILIATES. Below this is a secondary menu with icons for various services: MANAGEMENT DASHBOARD, PROJECT FOLDERS, ANALYTICS, VECTOR OUTPUT, DYNAMIC QR CODES, BATCH PROCESSING, UNLIMITED QR CODES, PDF REPORTS, and PASSWORD QR CODES. A 'SIGN UP NOW' button is also present.

The main section is titled 'QR CODE GENERATOR' and is divided into four steps:

- 1 DATA TYPE:** A list of data types including Website URL (selected), YouTube Video, Image File, PDF File, Google Maps Location, Twitter, Facebook, LinkedIn, Instagram, FourSquare, App Store Download, iTunes Link, Dropbox, Plain Text, Telephone Number, Skype Call, SMS Message, Email Address, Email Message, Contact Details, Digital Business Card, Event (VCALENDAR), Wifi Login (Android Only), Paypal Buy Now Link, and Bitcoin.
- 2 CONTENT:** A section where the user enters the content. A red circle highlights the 'Website URL' input field. Below it are 'Encoding Options' (Static - Embed URL into code as-is, Dynamic - Use our qrs.ly URL shortener) and a 'What's the difference?' link.
- 3 FOREGROUND COLOUR:** A color selection interface with a color gradient and a 'DOWNLOAD QR CODE' button circled in red. Below the color picker is a 'Foreground Colour (Hex):' input field with '000000' entered.
- 4 OUTPUT TYPE:** A section with icons for 'DOWNLOAD', 'PRINT', 'EMAIL', 'BATCH FILE', and 'PUT YOUR CODE ON OTHER STUFF'. There are also promotional banners for 'STYLE YOUR QR CODE OR ADD A LOGO' and 'CREATE A VISUAL QR CODE'.

# Google Drive

- Upload Video to Google Drive (You can do this from your phone or device via Google Drive or via E-mail)
  - Change the Shareable Link to ANYONE CAN VIEW
  - Copy the shareable link
  - Paste into the QR Generator



# Video Models for School Based Activities

You can create the video models or link QR codes to video models found online

- Calming Activities
- Sensory Activities
- How To –
  - lunch line,
  - return a book to the library,
  - work systems,
  - Tasks or assignments,
  - log into a computer program,
  - upload into Google,
  - walk in line etc . . .



Going through the lunch line



Social Narrative with Video Model for taking Turns



How to Create a New Folder in Google Drive



# Video Models for Community Based Jobs



Steps to Cleaning the Toilet



How to Clean the Windows



How to Vacuum

Cleaning Tables

A large rectangular box with a black border. At the top, the text "Cleaning Tables" is centered. Below the text on the left is a cartoon illustration of a person with brown hair, wearing a red shirt and blue pants, sitting on a wooden chair and cleaning a table with a blue cloth. On the right side of the box is a square QR code.

# Structured Work Systems

- Steps within a work system



Work system step 1



Work system step 2



Work system step 3



# Structured Tasks - single tasks or multi-step tasks



Video model for 1 individual task



Video model for step 1 of task - sorting



Video model for step 2 of task - packaging

# Staff/Parent Tutorials with Video Models embedded

How to use a token board



- Videos with cell phone
  - PowerPoint
  - Audio
  - Screencast
- 
- How to structure a task to fit different level students
- 
- How to link a video to a QR Code



# Transition books for students – from alternative settings, between buildings (Visual Support, Social Narrative & Video Model)

- Video to introduce settings
  - Pictures of staff
  - Pictures of setting and different areas along with written narratives of where the student will travel
    - Arrival
    - Breakfast
    - Hallways
    - Classroom (including specials, special education)
    - Other locations (office, nurse, sensory, restrooms)
    - Dismissal
- Introduce student to staff
  - Office staff
  - Nurse
  - Administration
  - Teacher (General an/or special education)
  - Assistants
  - Counselor or Social Worker
  - Student Resource Officer



# To help with multiple issues that can come up during a transition

- For a student afraid of restrooms



- For a student who was afraid of passing periods



- For a student that was afraid they would forget how to get to their room

A collage of images and text. At the top left, there are two small icons of a boy and a girl. Below them is the text "I will walk through the door to my class." with a green arrow pointing right. To the right of this text is a QR code. Below that, there are two more small icons of a boy and a girl, followed by the text "I need to stay with the adult." and another QR code. At the bottom, there are five photographs: a doorway, a classroom interior, a green door with a sign, a hallway, and a green door with a sign that says "OT".

I will walk through the door to my class.

I need to stay with the adult.

Created by Kris Baker

# Data Collection for Functional Behavior Analysis

“Systematic collection of information about an interfering behavior designed to identify functional contingencies that support the behavior. FBA consists of describing the interfering or problem behavior, identifying antecedent or consequent events that control the behavior, developing a hypothesis of the function of the behavior, and/or testing the hypothesis.”

<http://autismpdc.fpg.unc.edu/sites/autismpdc.fpg.unc.edu/files/2014-EBP-Report.pdf>

# Linking the QR Code to Google Forms

## Advantages

- Convenient with QR Code
- Can use with phone, iPad or tablet (with a scanner app)
- Compiles data into a spreadsheet
- Can be accessed by multiple individuals
- When form is updated, the QR code updates as well (you do not have to make a new QR code)
- Can create one form, copy and rename for individual students without have to RECREATE the form

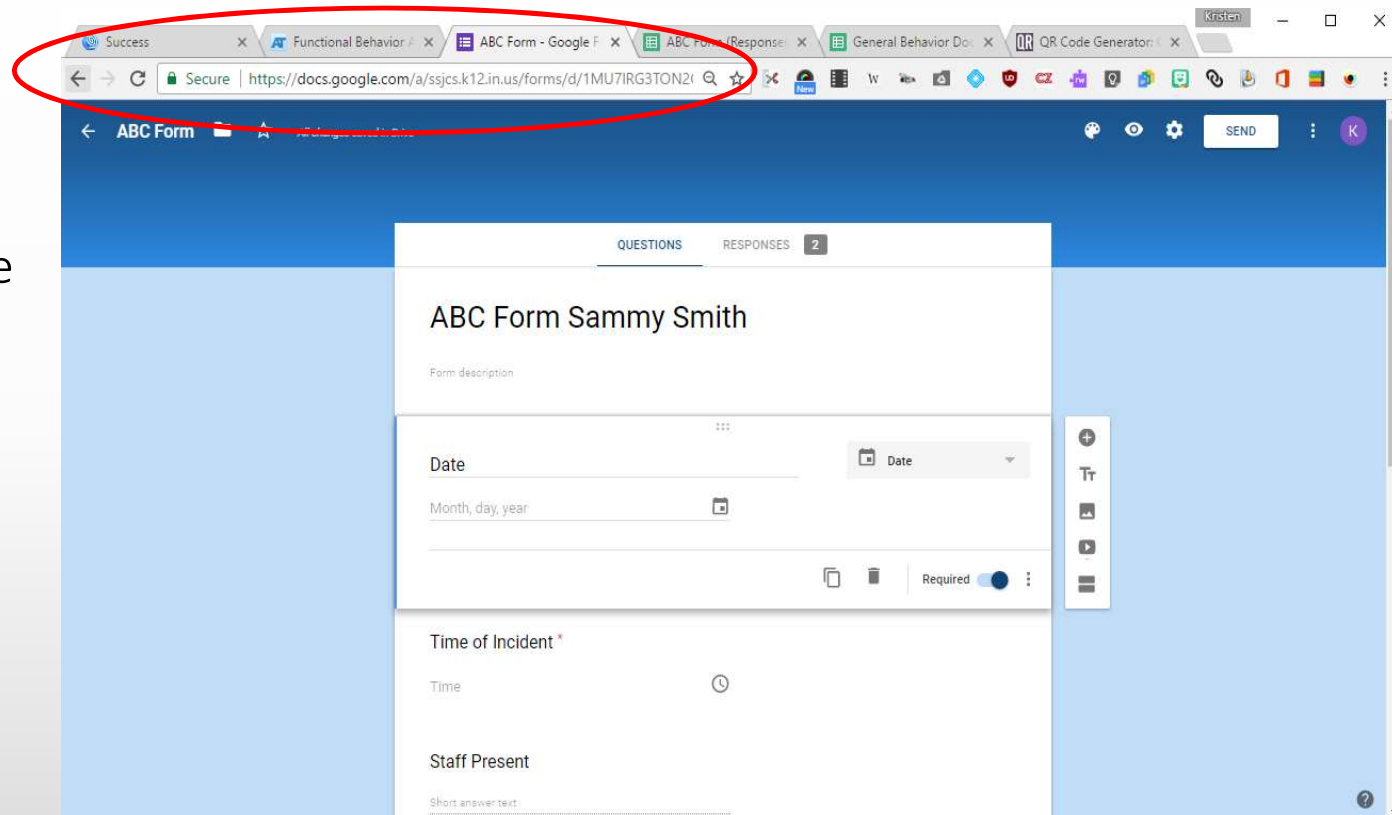
## Type of Data Collections with QR Code

- General documentation of target behaviors
- Antecedent Behavior Consequence Data
- Duration Data
- Latency Data
- Frequency Count
- Any anecdotal recording (limited basis)
- Seclusion/restraint forms
- Incident Reports



# Create Google Form

- Copy URL from Google form
- Paste URL in QR Stuff
- Copy and paste QR code into Document with student name
  
- To use multiple students with one form.
- Open the form in drive
- Right click
- Choose make a copy
- Save the new form under the student name
- Make sure you change the sharing so anyone with the link can view








# Duration Data

QUESTIONS    RESPONSES

## Duration Data

Form description




**Date \***  
Month, day, year 

**Target Behavior**  
Short answer text

**Time Behavior Escalation Initiated \***  
Short answer text

**Time Behavior Escalation Ended \***  
Short answer text

**Staff Completing Form** 111 Short answer  
Short answer text

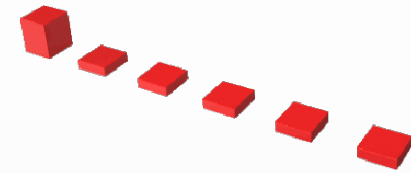
  Required  

**Additional Notes and Information**  
Long answer text



# Data Collection for Progress on Goals

# Link QR Code to Google Form:



Sammy Smith  
On Task Data



Sammy Smith  
Work System Prompt



Reading  
Comprehension Sample



Math Problem  
Solving



Functional Math  
Coins

# Reinforcement

- Link to visual reinforcement menu
- Link to preferred websites or computer based games
- Codes that link to preferred videos for reinforcement
  - You Tube or Other OnLine Videos
  - Student Created Videos



# References:

- Meredith Harrah – Taking Turned video model.  
<https://www.youtube.com/channel/UCe5EvFNZthquTU6G2Jeubw>
- NPDCASD – National Professional Development Center on ASD - <http://autismpdc.fpg.unc.edu/>
- [CEC Standards for FBA](#)
- <http://autismpdc.fpg.unc.edu/sites/autismpdc.fpg.unc.edu/files/2014-EBP-Report.pdf>
- Special Services of Johnson County and Surrounding Schools:
  - <http://www.ssjcs.k12.in.us/>
  - <https://www.youtube.com/user/pdssjcss>