Webinar Series





Health Literacy
Solutions Center





AI in Action:

A Behind-the-Scenes Look at Using AI-Powered Videos for Health Communication

Tracy Mehan & Katie Donovan

Center for Injury Research and Policy at Nationwide Children's Hospital





Welcome to the Webinar

- All attendees will be muted during the webinar
- Ask questions using the Question & Answer (Q&A) feature
- Use the chat for comments and discussions related to the webinar topic
- The webinar will be recorded and posted in the Health Literacy Solutions Center webinar archives

Following the webinar, you will receive an email containing a link to a brief online evaluation. If you are requesting continuing education (CE) credits, you must submit an evaluation in order to receive your CE certificate.





About the Speakers



Tracy Mehan

Director of Research Translation & Communication

Center for Injury Research & Policy at

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Katie Donovan

Digital Communication Specialist
Center for Injury Research & Policy at
Nationwide Children's Hospital





AI in Action:

A Behind-the-Scenes
Look at Using AIPowered Videos for
Health Communication



Importance of Visuals in Health Communication

Research has shown that:

Cable Lock

 Visuals like simple drawings, cartoons, and color photos improve comprehension of health information (Houts et al., 2006)

Lockbox with

Keypad

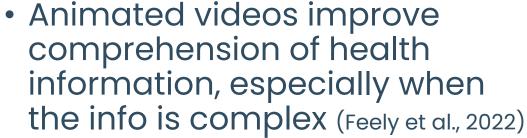
There are a range of safer storage options that gun owners can use to store their firearm safely.

As the weather wariding all-terrain vavoid injury, it is

Lockbox with

Finger Print

#SaferStorage









Trigger Lock

T4CIP6

Role of Collaboration in Creating Visuals



Visuals can make complex health information accessible to a wide array of audiences, ranging from children and adolescents to adults with lower literacy levels.

In order for health communication visuals to be accurate, useful, and engaging, multidisciplinary collaboration between graphic design and health sectors is necessary.

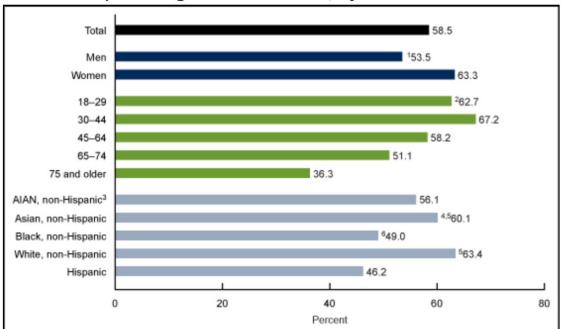


- (B Paulovich, 2016)

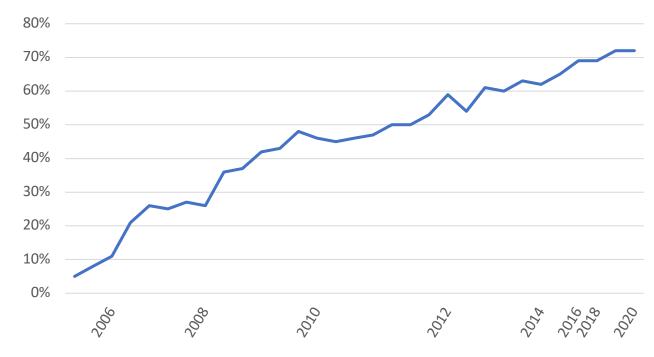


Visuals are Even More Important in the Online World

Figure 1. Percentage of adults who used the Internet in the past 12 months to look for health or medical information, by sex, age, and race and Hispanic origin: United States, July–December 2022



% of US Adults with at least 1 SM account





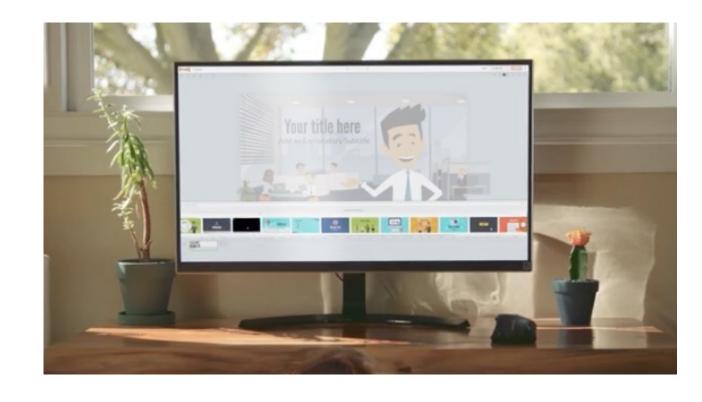
Visuals increase engagement

Vyond



What is Vyond?

- Video generation software
- Similar to Canva drag and drop
- "Video creation studio"
- "Create relevant, engaging videos that motivate stakeholders to take action."

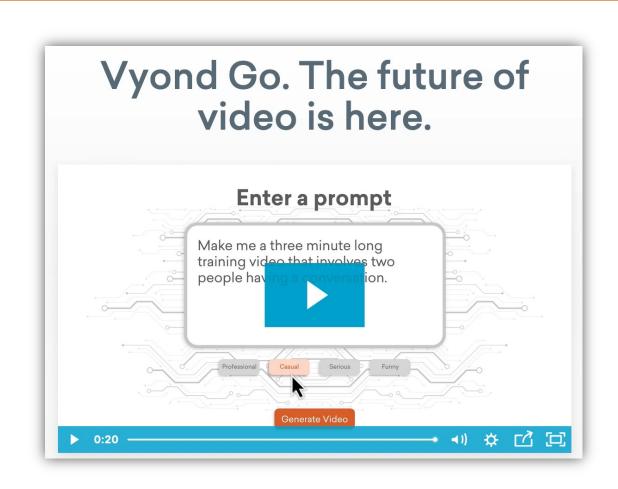


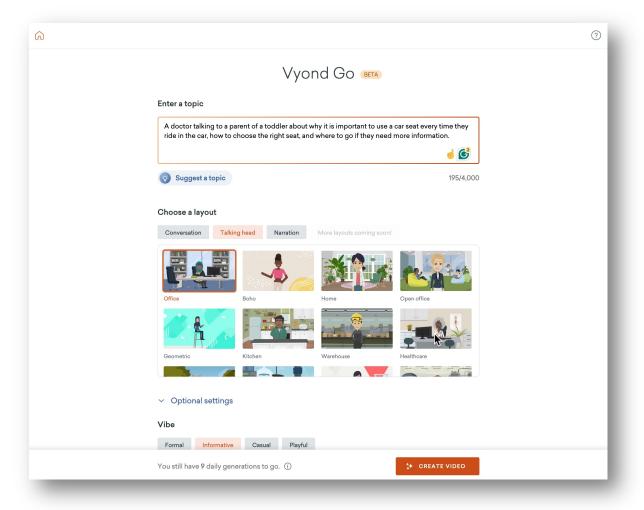
Prevent Child Injury Examples



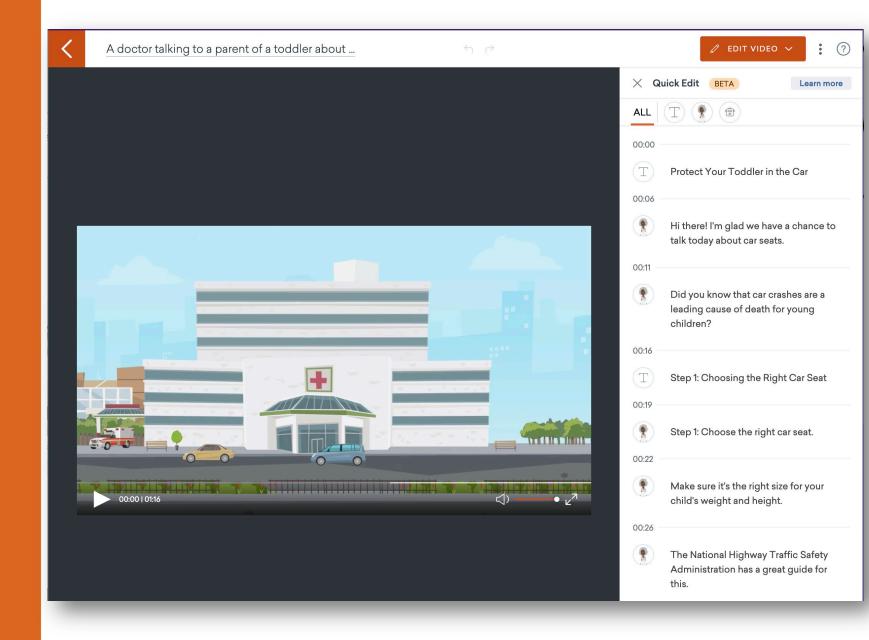


Vyond Go: Video Creation Software + AI





Quick Edit Mode



Case Study

Creating a Video with AI



T4CIP Background







Teach **public health approaches** and **community engagement**

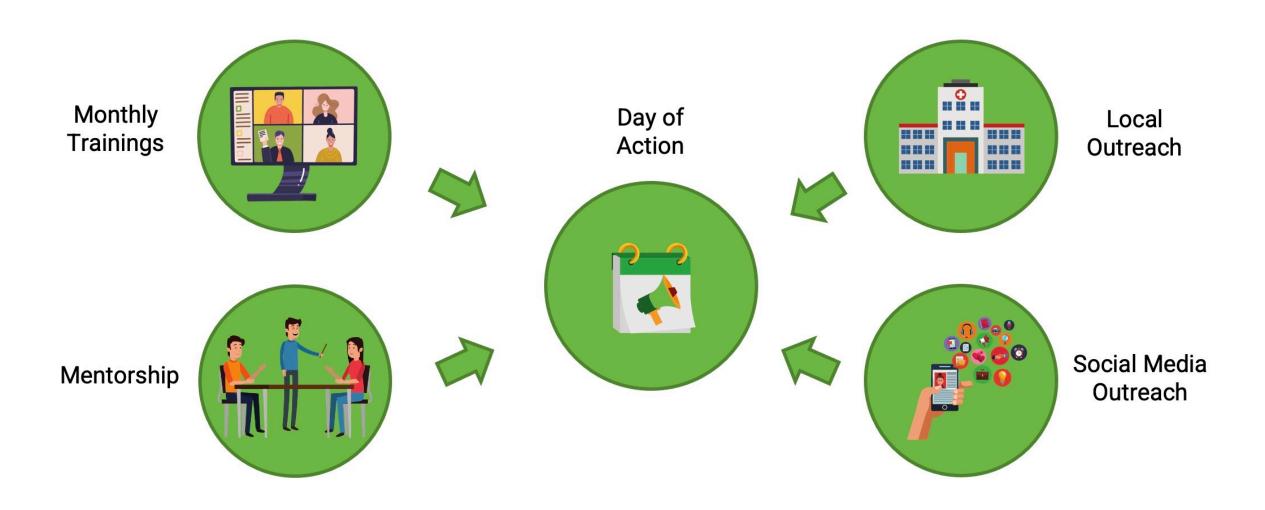


Promote **interest and engagement** in the area of **child injury prevention**

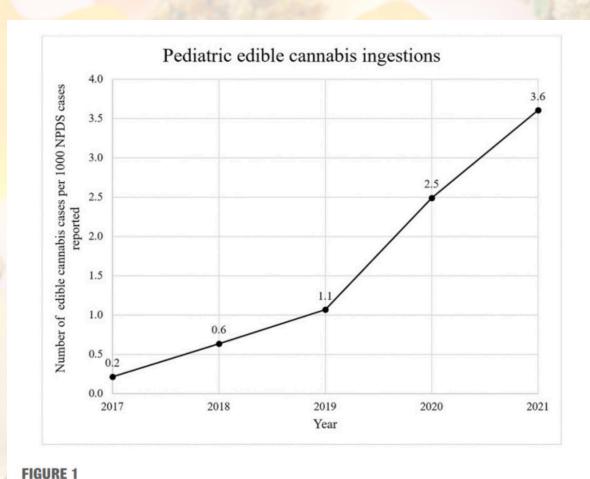


Facilitate and promote pediatric traineeinitiated outreach and engagement activities nationally to prevent child injury

T4CIP Activities



Edibles Background





Pediatric edible cannabis product ingestions per 1000 pediatric calls to the National Poison Data System by year.

The First Video



Deciding on the Audience for the Video

- Parents?
 - Talking to their friends?
 - Talking to their adult family members?
 - Talking to their kids?

- Legislators?
- Marijuana edibles distributors?
- Other doctors?



What We Wanted Our Audience to Learn

- About the dangers of marijuana edibles to young kids
- How to talk to parents about this issue
 - In a non-judgmental way
 - Giving enough info
 - Role-modeling



Training Goals for Our Trainees



How to think about the visuals for educational materials

- Showing what you are talking about in the text
- Reinforcing the messaging
- People/situations that are relatable



Choice of language

- Too technical vs. easier to understand
- Not just telling them of the dangers/risks but giving them actionable steps they can take to prevent injuries from happening



Teaching how to look at reading grade levels of text



Role modeling concept

Script (Text) Changes



Working Draft of Script

Asked trainees to provide feedback on the script

	A	В	С	D	Е	F
1	Timestamp	Scene #	Туре	Original Text	Student 1	Student 2
2	00:00:05,125> 00:00:09,916	2	Dialog	Hi, have you heard about the dangers of marijuana edibles in young children?	Hello! I'm glad that you scheduled this visit to ask about keeping your daughter safe with marijuana edibles in the home, especially since more children get marijuana poisoning each year.	Hello! I'm glad that you scheduled this visit to talk about keeping your daughter safe with marijuana edibles in the home, especially since more children are poisoned by marijuana edibles each year. (one thought is maybe having the doctor ask the parent why she wanted to talk about edible poisoning and having the parent respond that she had heard about increasing poisonings in children? just a thought!)
3	00:00:10,083> 00:00:14,208	3	Dialog	No, I haven't. What should I know?	Thank you! What should I know?	agree with student 1
4	00:00:14,375> 00:00:29,208	4-6	Dialog	Well, marijuana edibles can look like regular candy or baked goods, making them attractive to young children. If a child eats a marijuana edible, they can experience sypmtoms like dizziness, confusion, and sleepiness.	Well, marijuana edibles can look like regular candy or baked goods, making them attractive to young children. If a child eats a marijuana edible, they can experience a few symptoms that are important for parents to be able to recognize.	agree with student 1
5	00:00:29,375> 00:00:36,125	7	Dialog	That sounds scary. How can I recognize the signs of marijuana edible poisoning?	How can I recognize the signs of marijuana edible poisoning?	agree with student 1
6	00:00:36,291> 00:00:47,291	8-10	Dialog	Some signs to look out for are difficulty walking, breathing problems, and extreme drowsiness. If you notice any of these symptoms, seek medical attention immediately.	Some signs to look out for are difficulty walking, breathing problems, and extreme drowsiness. These symptoms are more likely to happen in young children. So if you notice any of these symptoms, you should seek medical attention immediately.	Some signs to look out for are difficulty walking, breathing problems, and extreme drowsiness. These symptoms are more likely to occur in younger children. So if you notice any of these symptoms, you should seek medical attention immediately.
7	00:00:47,458> 00:00:52,291	11	Dialog	What can I do to prevent my child from accidentally eating a marijuana edible?	That sounds scary! What can I do to prevent my child from accidentally eating a marijuana edible?	agree with student 1
3	00:00:52,458> 00:01:04,291	12-14	Dialog	One way is to store your marijuana edibles in a locked cabinet or container that's out of reach of children. You can also make sure that your edibles are clearly labeled and not easily confused with regular food.	NO CHANGE	agree with student 1
9				That's a good idea. Do you have any other tips for safely		
10	00:01:04,458> 00:01:11,125 00:01:11,291> 00:01:23,291	15	Dialog	Another tip is to keep your edibles in their original packaging, with the THC content and dosage clearly labeled. This can help you keep track of how much you're consuming and prevent accidental overdoses.	NO CHANGE Another tip is to keep your edibles in their original packaging, with the THC content and dosage clearly labeled. This can help you keep track of how much you're consuming and prevent accidental overdoses. It's also important to share this information with other adults in your child's life that might have edibles stored nearby, like grandparents or caregivers.	agree with student 1
1	,			•	Talking to the other adults in my child's life is a good idea since I won't always be right with him! Is there anything else I can do?	Talking to the other adults in my son's life is a good idea since I won't always be with him! Is there anything else I can do?
2					As your child gets older, it's a good idea to teach your child to always ask a trusted adult before eating or touching something new.	As your child gets older, it's a good idea to teach him to always ask a trusted adult before eating or touching something new.
3	00.04.22 450 - 00.04 20.555	10	Diel	Thanks for the advice. What should I do if I suspect my	NO CHANCE	
4	00:01:23,458> 00:01:30,666	19	Dialog	child has eaten a marijuana edible? If you suspect your child has ingested a marijuana edible, call poison control or seek medical attention immediately. It's important to act quickly and get your	call poison control at 1-800-222-1222 or seek medical attention immediately. It's important to act quickly and	no change get rid of the number and put it in the video if
5	00:01:30,833> 00:01:42,083	20-22	Dialog	child the help they need. Thank you for all the information. I'll make sure to follow	get your child the help they need.	possible. otherwise no change
6	00:01:42,250> 00:01:48,625 00:01:48,791> 00:01:59,166	23	Dialog	your tips to keep my child safe. You're welcome. It's important to be proactive and take steps to prevent accidental ingestion of marijuana edibles. Let's keep our children safe together.	NO CHANGE	no change
17						Overall i think we touch on the important topics - increasing poisonings, symptoms, what to do if ingested, and safe storage/prevention. I dont think there are other areas we need to focus

Trainer Notes

Notes

I'm not sure if a parent would schedule a visit just to talk about edibles so I came up with a slightly different approach. I also think it would be more helpful to model how a doctor could bring up the topic during a visit for something else. I am proposing that the video start as the doctor's visit is coming to an end. In my suggested edits, I thought about how I would respond as a parent and tried to make it more conversational in places. I also wanted to show some examples of what might happen if a parent didn't think this was a problem (give us a chance to do a little mythbusting). I went through it three times - once as a public health person thinking about the messages I thought it was important to convery, once as a doctor thinking about how I would talk to a patient about this, and once as a parent thinking about how I would be likely to talk to a doctor about this and what questions I might ask. It is important to look at any messaging we create for parents with all three hats on for it to be most effective. It is also important to feel empowered to make substantive changes if you don't like how something is going. As you can see, I added a few more back and forths between the doctor and the parent because I felt like there were a couple more things that would be important to address and/or likely to come up during a visit like this. Al can be a great start but it will never replace what we know as healthcare providers about the human interaction piece. I also tried to think of how a parent would talk. I'm not sure many parents are using the phrase marijuana poisoning for instance. You guys have experience with counseling in clinic like this so feel free to change things up if this isn't working for you.

Trainer Revisions

2	Timestamp	Scene #	Туре	Original Text	Trainer comments	Shorter version?
4	00:00:05,125 -> 00:00:09,916 00:00:10,083 -> 00:00:14,208	2 3	Dialog Dialog	Hi, have you heard about the dangers of mar edibles in young children? No, I haven't. What should I know? Well, marijuana edibles can look like regular baked goods, making them attractive to your If a child eats a marijuana edible, they can e	Doctor: Thank you for coming in today. Everything is looking great. Before you leave, there is one more thing I wanted to talk about. We have been noticing that we are seeing a lot of young children coming into the hospital after accidentally getting into an adult's marijuana edibles so we are talking to all our families about this new danger. Even if you don't usually have edibles in your home, your child could get to one if someone else brings them into your	Doctor: Thank you for coming in today. Everything is looking great. Before you leave, there is one more thing I wanted to talk about. Since marijuana has become legal, more people are bringing edibles home. This has led to more we have been noticing that we are seeing a lot of young children ending up in coming into the hospital after accidentally getting into an adult's marijuana edibles so we are talking to all our families about this new danger. Even if you don't usually have edibles in your home, your child-could get to one if someone else brings them into
6	00:00:14,375> 00:00:29,208	4-6	Dialog	sypmtoms like dizziness, confusion, and slee That sounds scary. How can I recognize the s	home or if someone has them at a house he is visiting.	your home or if someone has them at a house heis visiting.
	00:00:29,375> 00:00:36,125	7	Dialog	marijuana edible poisoning?	(Parent) I haven't heard about this. Can you tell me more about what I need to know?	(Parent) I haven't heard about this. Can you tell me more about what I need to know?
7	00:00:36,291 -> 00:00:47,291	8-10	Dialog	Some signs to look out for are difficulty walk breathing problems, and extreme drowsines notice any of these symptoms, seek medical immediately.	Doctor: As states have started to legalize marijuana,	Doctor: As states have started to legalize marijuana, more and more people are bringing edibles into their homes - even in states where itisn't legal. Now that marijuana is legal in some
9	00:00:47,458 -> 00:00:52,291 00:00:52,458 -> 00:01:04,291	11 12-14	Dialog	What can I do to prevent my child from accide ating a marijuana edible? One way is to store your marijuana edibles in cabinet or container that's out of reach of chan also make sure that your edibles are cleand not easily confused with regular food. That's a good idea. Do you have any other tig.	more and more people are bringing edibles into their homes - even in states where it isn't legal. Since marijuana edibles can look like regular candy or baked goods it is easy to see how a child might want to eat one if they find it and not realize it is	states more people are bringing edibles into their homes. Since-To a kid, marijuana edibles can look just like regular candy or baked goods. It is easy to see how a child might want to eat one if they find it and not realize it is something that could hurt
11	00:01:04,458 -> 00:01:11,125	15	Dialog	storing marijuana edibles at home? Another tip is to keep your edibles in their or packaging, with the THC content and dosage	something that could hurt them. Parent: Oh, I could definitely see that. That makes sense. But really, I don't think it would be that big of a deal. They might get a little silly but it won't really hurt them right?	them. Parent: Oh, I could definitely see that. That makes sense. But really, I don't think it would be that big of a deal. They might get a little silly but it won't really hurt them right?
12	00:01:11,291 -> 00:01:23,291	16-18	Dialog	labeled. This can help you keep track of how consuming and prevent accidental overdose:	Doctor: Acutally, marijuana is much stronger than it used to be. Back in the nineties, THC products only had about 4% THC. Now, some products are as high as 30 to 40 percent. The other thing to consider is	Doctor: Acutally, marijuana is much stronger than it used to be. Also, because there are no federal regulations on these products what is considered one dose varies. In some cases one adult dose of
14 15 16	00:01:23,458> 00:01:30,666 00:01:30,833> 00:01:42,083 00:01:42,250> 00:01:48,625	19 20-22 23	Dialog Dialog Dialog	Thanks for the advice. What should I do if I schild has eaten a marijuana edible? If you suspect your child has ingested a marijall poison control or seek medical attention immediately. It's important to act quickly and child the help they need. Thank you for all the information. I'll make su your tips to keep my child safe.	that there are no regulations on these products so in some cases one adult dose of a gummy means you should only eat one fourth of one gummy. We know that many children will eat much more than that. Eating just a few gummies could cause the child to end up in the hospital with some pretty serious symptoms.	a gummy means you should only eat one fourth of one gummy. Eating just a few-one gummyies could be enough for cause the child to end up in the hospital with some pretty serious symptoms. And we know that many children will eat much more than just one that. (changed the order of the last two sentences)

What We Changed



More conversational



Technical/complicated words/sentence structure (plain language)



Added some data to help parents understand "why" this would impact them (perceived susceptibility)

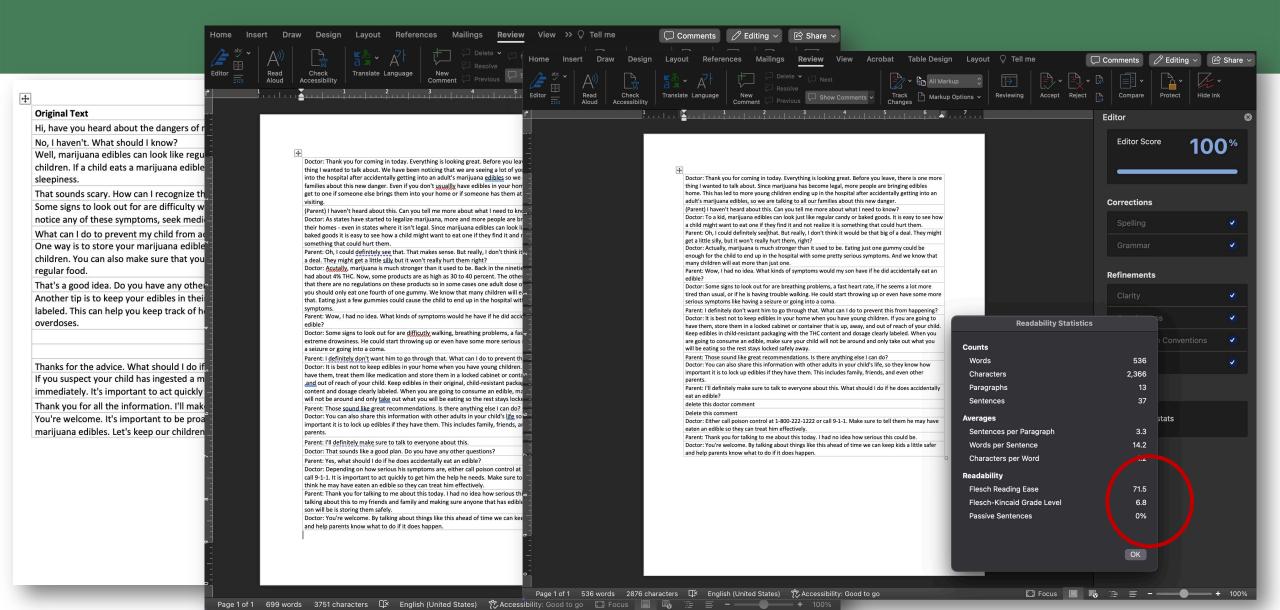


Focused on recommendations that parents would feel they could do (self-efficacy)

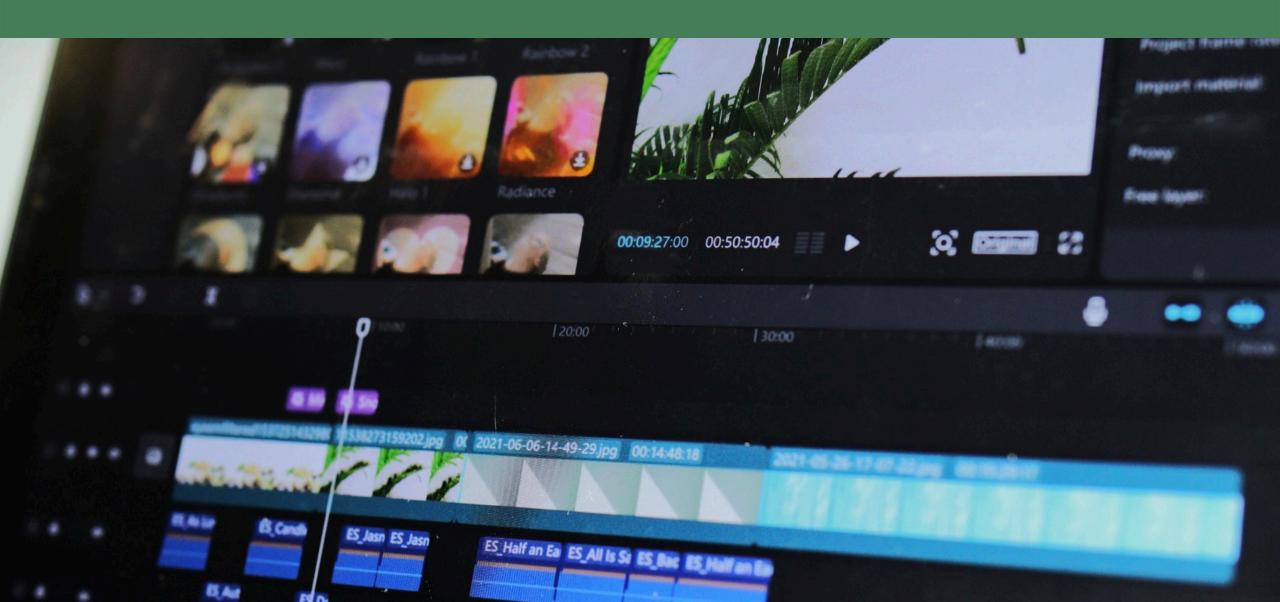


Pointed out situations where parents would need to take action (cues to action)

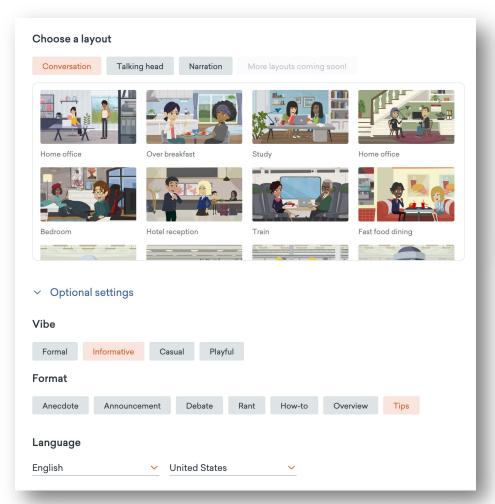
Testing for Reading Grade Level



Visual Changes



Choosing a Layout







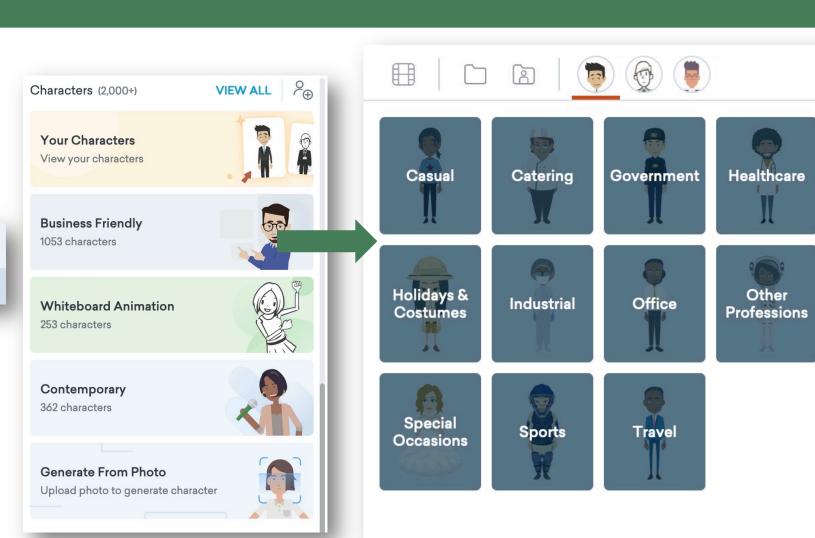
Choosing the Characters





Before After

Editing the Characters







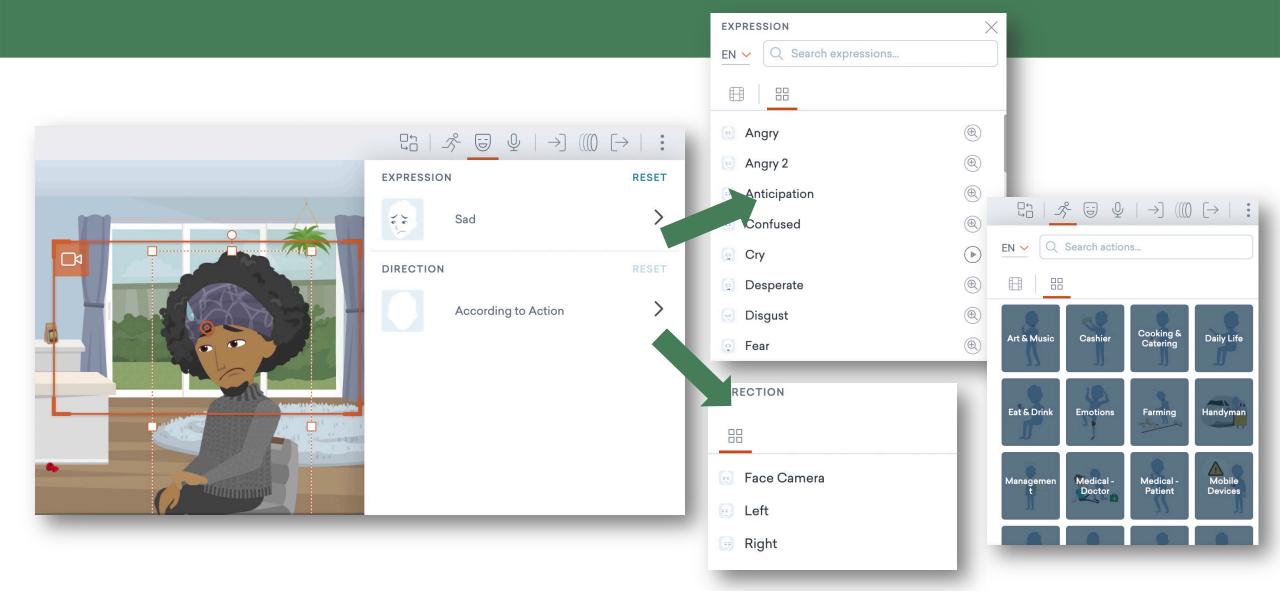
Character Expressions





• The AI generator assigns an emotion to the characters, it didn't always fit the scene or match our tone

Editing the Emotions, Reactions, and Actions

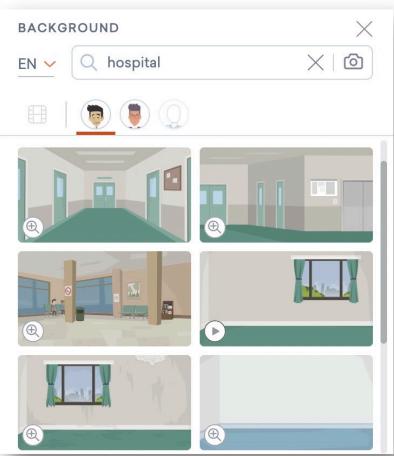


The Room Set-Up Before



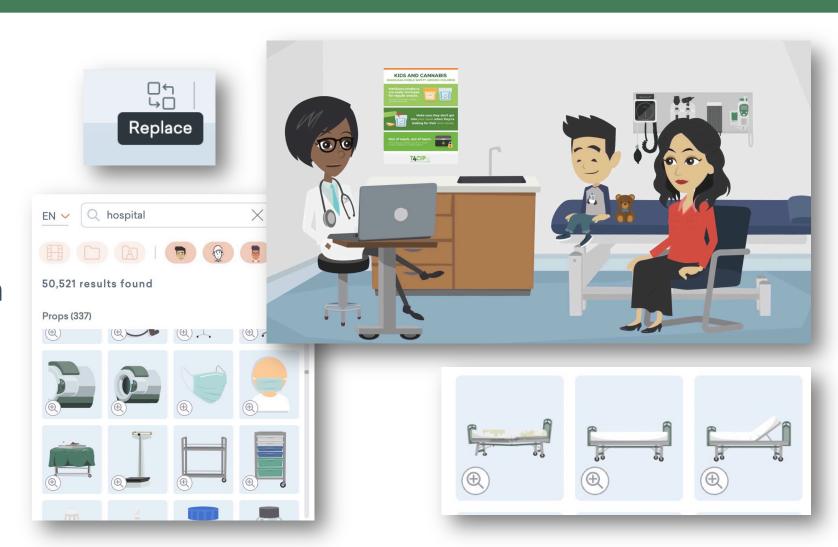
Creating the Doctor's Office





Modifying the Room Set-Up

- Doctor's stool and rolling laptop station
- Parent chair sitting behind child
- Child sitting on table
- Sink cabinet, tools on the wall, patient bed
- Teddy bear to give context to the child's age



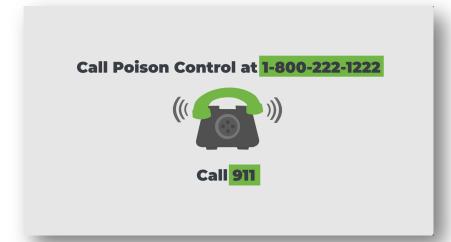
Showing the Right Actions



Possible symptoms







What to do if you suspect your child has eaten a marijuana edible

Adding Some T4CIP Branding



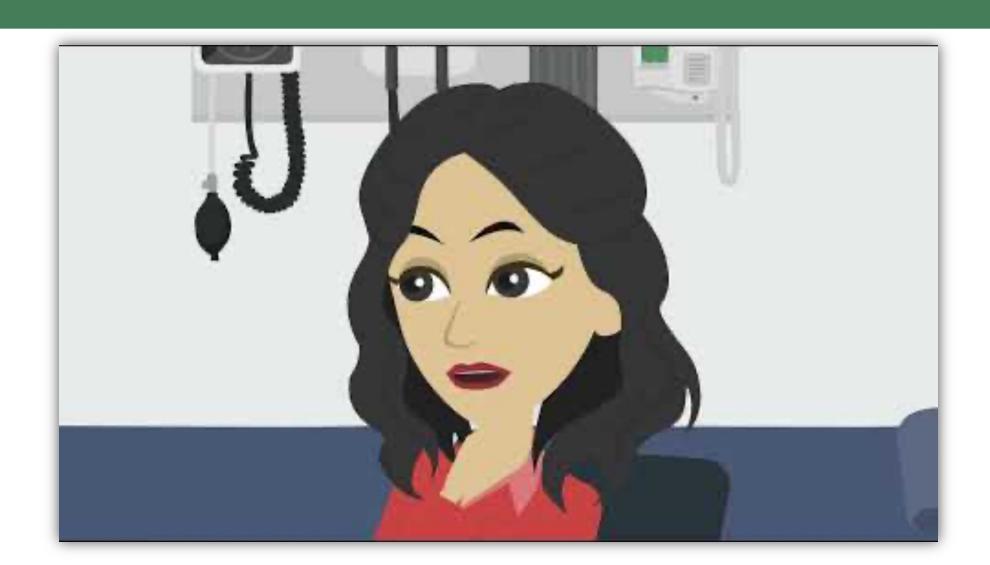


Where to Go For More Information



- Limited time for video
 - Wanted to keep under 3 min
- Important to give a place they can go if they want more information
- Added an end slide

Final Product



Feedback from Doctors

"It is much more conversational and really sounds like how a doctor might talk to a patient."

"Before watching this video I thought it would be awkward bring up edibles to a parent. Now I see how easy it can be."

Final Thoughts on AI-powered Videos

Benefits

- Quick
- Easy
- Easy to make some of the changes (but not all)

Challenges

- Robot-sounding voices
- Need someone with editing skills if you want to make more advanced edits or add branding
- Will still need to work on the script



Want to go even more behind the scenes?

Come to our workshop at the IHA Virtual Conference May 14 – 16th

We will:

- create a video live from a prompt from the audience
- do live edits to a video
- change the language of the video
- showcase some of the newer features of the program
- And more...



Thank You! Have questions? Feel free to contact us



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https://bit.ly/katie-donovan



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