

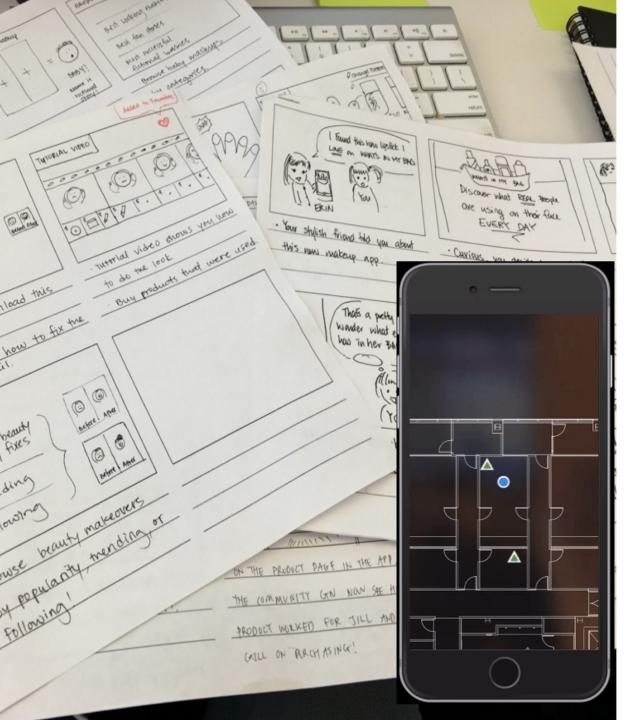
Human Computer Interaction

September 29, 2020 Dr Danielle Lottridge

Aim

• Show a range of human computer interaction industry research and academic research

industry research



what you need for good ideas

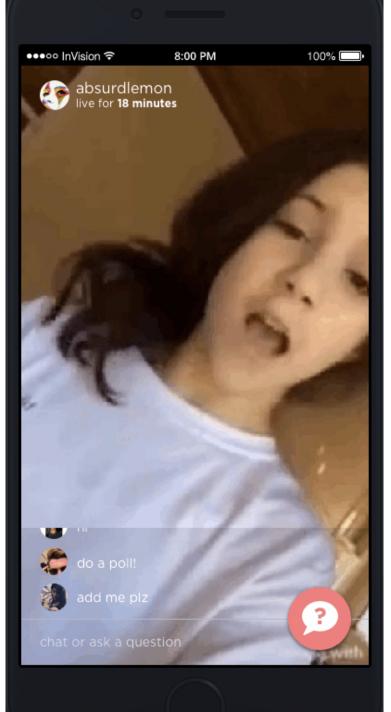
North stars for research to uncover

- evergreen engaging content
- daily habit
- immediate delight through mechanisms
- long-term attachment

Dozens and dozens of ideas explored

- Short DIY video editing platform
- Relationship advice
- AR messages in space
- Many many more...
- Livestreaming with
 - high interactivity: games,360 room, local fame
- Livestreaming with video

Livestreaming



●○○○○ Verizon 穼 3:31 PM hellofromtumblr Follow Q

Do you livestream?

Whether you livestream yourself all the time, every so often, or basically never, we want to hear from you about it.

Take the survey

If you qualify*, you can earn a \$5 gift card for filling it out. Mostly, though, you'll have our eternal gratitude for helping make Tumblr a better place.

*The survey is open to anyone 13 and older, but only U.S. residents are eligible for the gift card. And if you're a U.S. resident under 18, you'll need a parent or guardian to give their permission for you to receive the gift.

Source: hellofromtumblr

2,889 notes



Why do teens livestream?

7990 survey responses

YAHOO!

20 interviews with teens

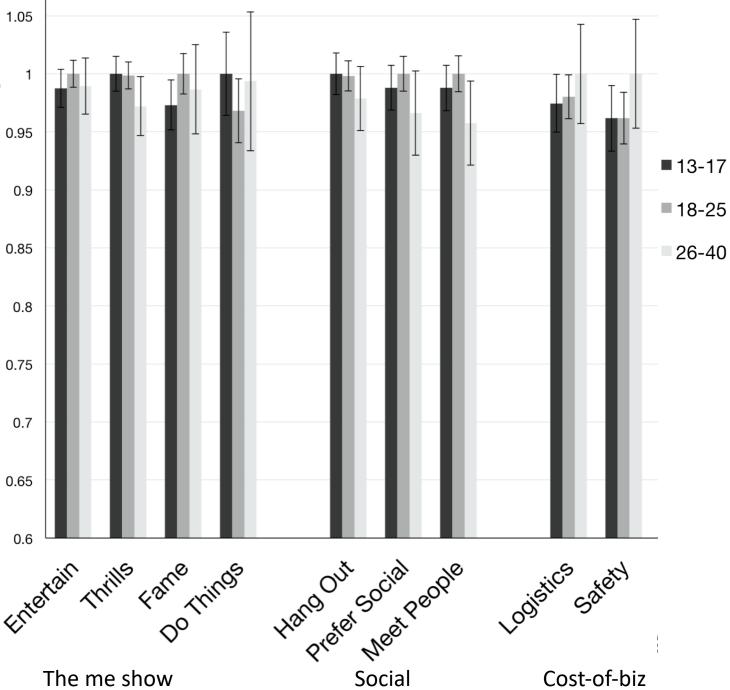
Lottridge, D., Bentley, F., Wheeler, M., Lee, J., Cheung, J., Ong, K., & Rowley, C. (2017). Third-wave livestreaming: teens' long form selfie. In Proceedings of the 19th International Conference on Human-Computer Interaction with Mobile Devices and Services MobileHCI2017 (p. 20). ACM.

		2	3	4	5		1 7	· · · · · ·		9 10
I feel like I'm hanging out with my friends.	0.74	ے LivestreamH	-	4	5	6		2	<u>} : :</u>	9 10
Connecting with my friends.	0.682	Livestreamin	ingout							
Friends are taking time to watch and get to know me.	0.647									
Meeting friends of friends.		FriendsOfFrie	nde				_			
I'd like my livestreams to connect me to friends of friends.	0.041	rienusoirne	nus							
	0.599									
If I can't hang out with my friends in person, I want to "hang out" through a livestreaming app.										
I want to make new friends through livestreaming.	0.486	0.775	.							
I "guested" a friend while livestreaming (i.e., you invited someone to livestream within your livestream).			Guesting							
I was "guested" on livestreaming by a friend (i.e., another streamer invited you to livestream within their livestream).		0.677								-
l livestreamed because I was somewhere cool or doing something cool.		0.666								
livestreamed with an audience.		0.635								
I had a plan of what to say (or do) for my livestream.		0.584								
livestreamed because I got bored.				Bored & Lon	ely triggers					
livestreamed because I got lonely.			0.711							
I started livestreaming but there was no audience so I stopped.			0.661							
I had trouble figuring out what to talk about when I livestreamed.			0.646							
I spontaneously talked about whatever came up.		0.522	0.598							
l asked my viewers for ideas what to talk about (or do).		0.499	0.532							
l livestreamed to talk to people I know.			0.507							
to talk about things my viewers care about.				0.728	Entertain&P	lease				
to entertain my viewers.				0.637						
to be someone my viewers want to watch.				0.637						
to share things about myself to help my viewers get to know me (e.g., I host a Q&A).				0.604						
I wish I had more people watching when I livestreamed.				0.551						
I only let people follow my livestream account if I know them personally.					0.78	KnowViewe	rsPersonally			
If someone I don't know personally tries to follow my livestream account, I check out their account before accepting.					0.69					
When I livestream, I like to know everyone (personally) who is watching.					0.626					
am comfortable with anyone watching me livestream.					-0.491					
to become famous.						0.782	WantFame			
Livestreaming gives me a moment of fame.						0.604				
to achieve things with my viewers (e.g., a like count).						0.602				
livestreamed to get more followers.						0.56				
to put myself out there to make connections with influential people.						0.428				
t's exciting to be live.								LiveExciting	Feelings	
t makes me feel better.							0.634	-		
Having people interact with me through comments.							0.609			
get closer with my audience.	0.42						0.461			
prefer not to show my face online to anyone I don't know personally.									NoFaceNoN	lame
prefer to use a nickname online rather than my real name.								0.681		
I feel nervous every time I livestream.								0.557		
I don't livestream as much as I want because I'm concerned about my online safety.					0.434			0.556		
to meet cool people.				0.411	0.434			0.550		4 WidenCoolS
to find people to hang out with.				0.411					0.578	
Hanging out with friends is my favorite way to spend my time.									0.576	0.762
Watching a video with a friend is better than watching it alone.									+	0.762
	0.466								+	0.723
l livestream when I think my friends will be free to watch.	0.400									
I'd like my livestreams to connect me to more people within my immediate communities (school, neighborhood, etc).										

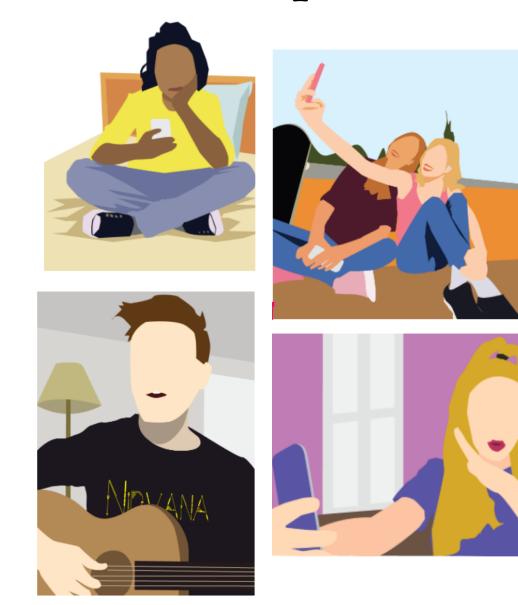
Factor analysis

Results

Teens and adults are similar.

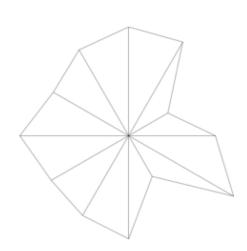


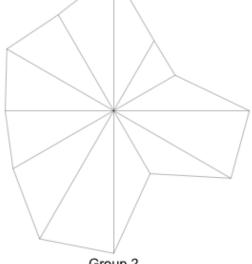
Livestream personas



Livestreamers Cluster Star Graphs

Personas not supported

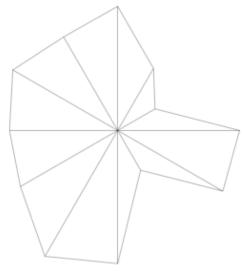




Group 1





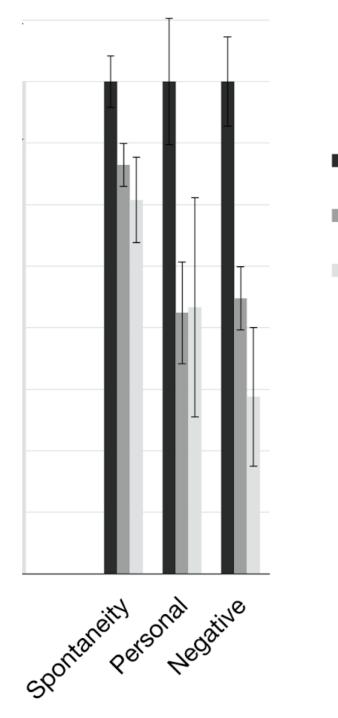




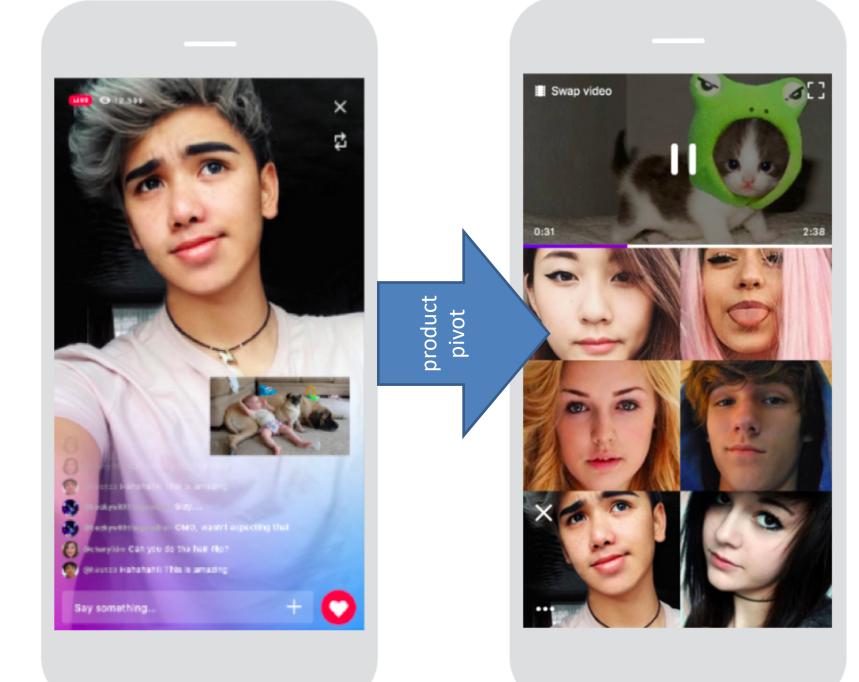
Group 3

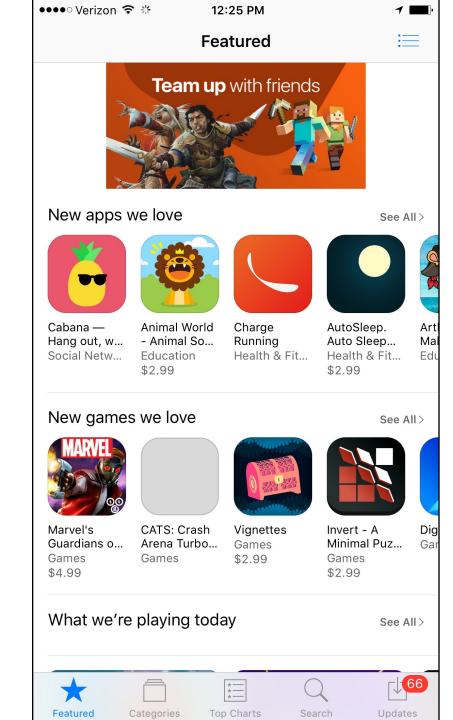
Teens score higher on

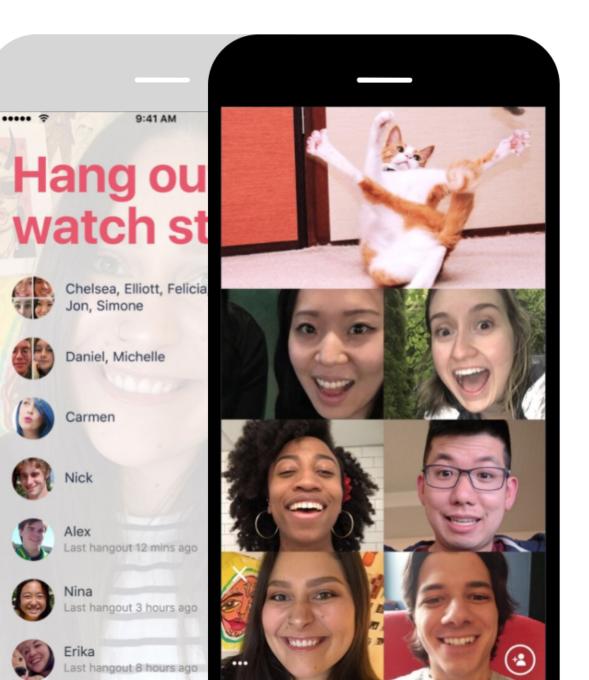
1.spontaneity,
2.desire to know
audience, and
3.triggers of
loneliness and
boredom.













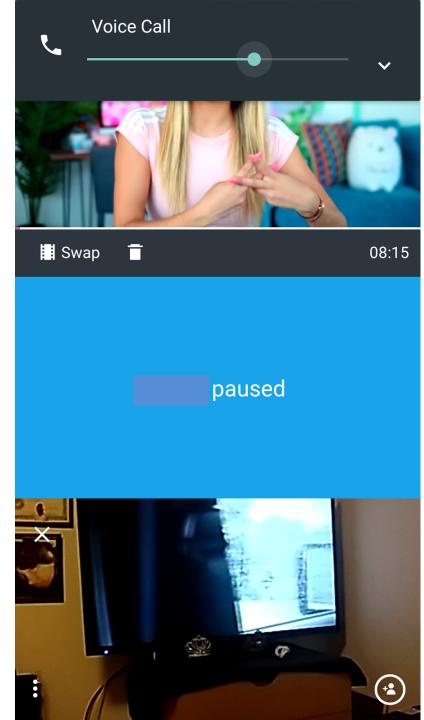
How do teens videochat?

Multimedia diary study

2 weeks 16 teens

YAHOO!

Suh, M., Bentley, F., and Lottridge, D, "It's Kind of Boring Looking at Just the Face": Understanding Teens' Mobile Videochat Practices. Submitted to CSCW 2018.

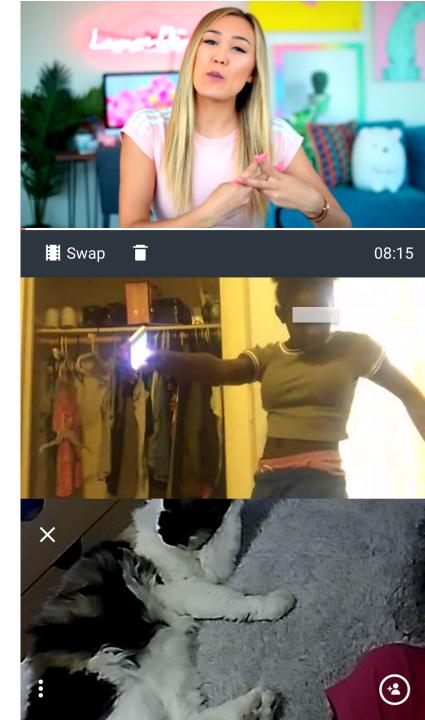


Method

- Initial interviews
 - Started interviews with friendship pairs
 - Finished interviews one-on-one
- 2 week diary study period
 - Screenshots shared with researchers over slack
- Final interviews

Interviews: Critical Incident Technique

real stories of
real multitasking







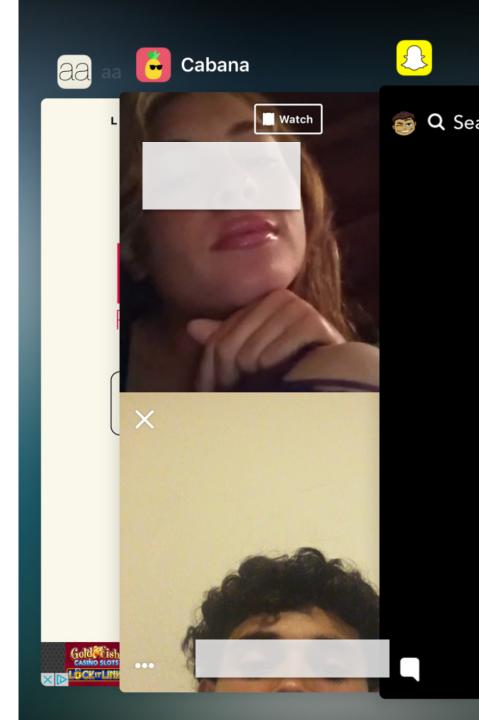
Videochat is personal

0

Boredom and self-regulation

I was bored. And I didn't have nobody to talk to, so I was like, "You want to just Facetime on the app?" And then she was like, "Yeah." (D.)

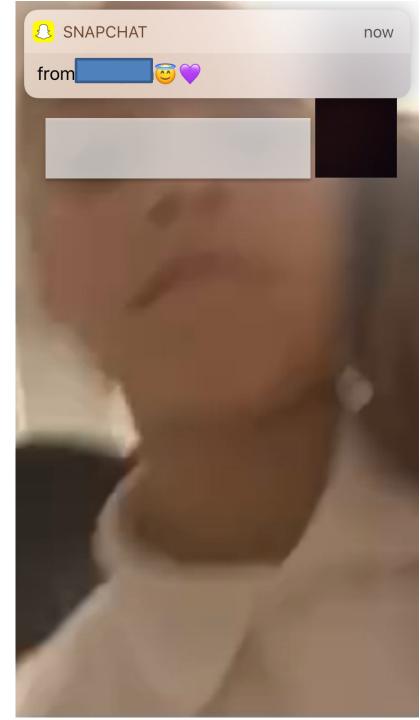
...I'm so used to Facetime it's like I always go on pause too because it's boring just looking at the same person, especially if it's a lot of us then we try to watch a video but it's too many people to watch a video then I'll just go on another app like I'm not just going to sit here. (R.)

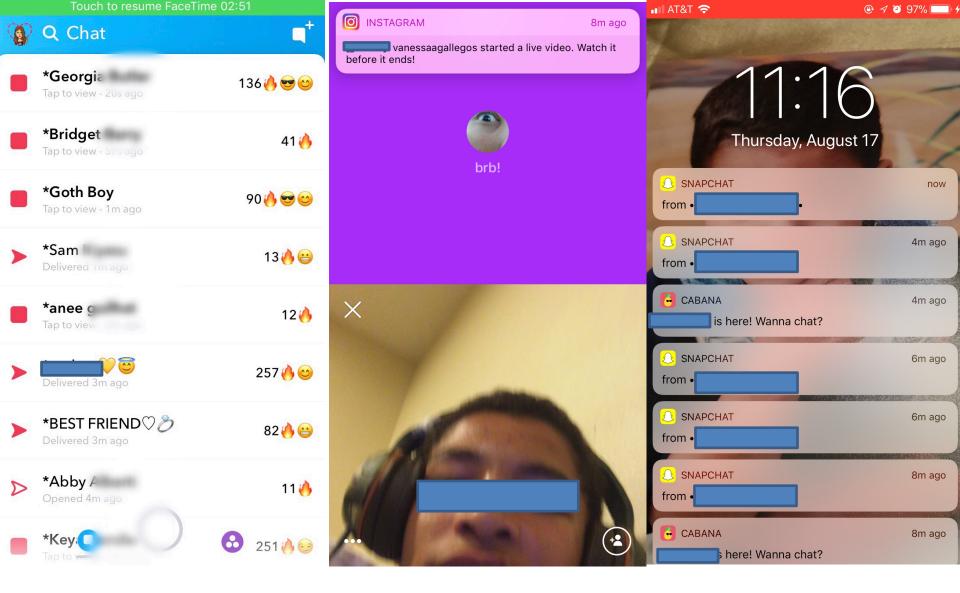


Videochat is unremarkable

I forgot I was on videochatting! Sometimes we'll forget we're even on FaceTime. We'll be Snapchatting each other and be like, "Oh wait." (A.)

I was on Skype and there were probably three other people. I was like, "Oh, I'll be back in a minute. I just need to go get something." I was getting a snack or something. I totally forgot about it. 10 minutes later, I come back. I'm like, "Are you guys still on?" (S.)





Digital interruptions: "I can manage them."

academic research

Science Design Humanities

epistemology /ıˌpɪstɪˈmɒlədʒi,ɛˌpɪstɪˈmɒlədʒi/ •

noun Philosophy

the theory of knowledge, especially with regard to its methods, validity, and scope, and the distinction between justified belief and opinion.

Alternative knowledge claim positions

Postpositivism Determination Reductionism Empirical observation and measurement Theory verification	Constructivism Understanding Multiple participant meanings Social and historical construction Theory generation
Advocacy/Participatory	Pragmatism
Political	Consequences of actions
Empowerment issue-oriented	Problem-centered
Collaborative	Pluralistic
Change-oriented	Real-world practice oriented

Creswell, J. W. (2003). Chapter 1: A framework for design. Research design: qualitative, quantitative and mixed methods. Sage Publications, Thousard Oaks, CA.

Science Design Humanities





Fallman, D. (2003). Design-oriented human-computer interaction. In Proceedings of the SIGCHI conference on Human factors in computing systems (pp. 225-232). ACM.

Science	e Design H	lumanities
Conservative	Pragmatic	Romantic
engineering	bricolage	art
glass box	self organizing system	black box
result of process	outcome of dialogue	functional art
methods	experience	creativity
rational	reflective	mystical

Fallman, D. (2003). Design-oriented human-computer interaction. In Proceedings of the SIGCHI conference on Human factors in computing systems (pp. 225-232). ACM.



MOST PRODUCTIVE ENTREPRENEURS

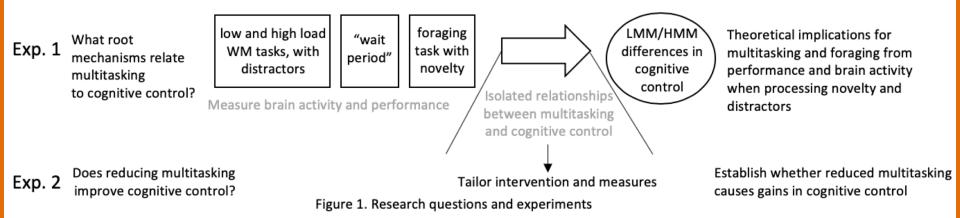
Multitasking Is Making You

Stupid Doing many things at once isn't just distracting -- it actually takes points off your IQ, scientists say.

BY JESSICA STILLMAN, CONTRIBUTOR, INC.COM @ENTRYLEVELREBEL



Multitasking and cognitive control



1 in **4** globally will have a stroke at age **25** or older, according to new study

By Bianca Britton, CNN

() Updated 2005 GMT (0405 HKT) December 21, 2018



News & buzz



Analysis: The FBI dire totally shut down Dou Trump's...



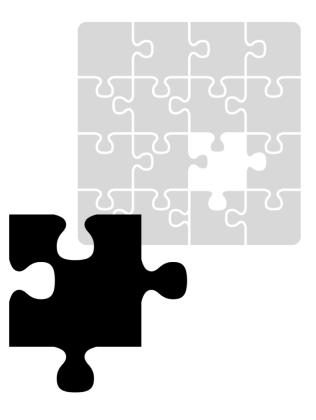
5 common coronavir misconceptions and science you need to.

enjoyable experience

social content

upper limb exercise





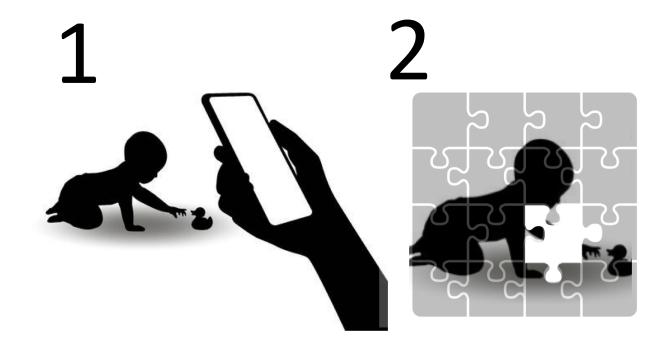
Puzzle images are whakatauki and photos from whanau



Sources: https://www.pinterest.nz/pin/530932243554280690/ selfie

https://www.sciencephoto.com/media/1012496/view/happy-family-taking-

Whanau upload photos for puzzles to an app



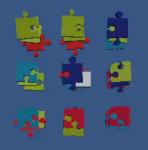
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- 1x

Scale

Collab
Account

Left Eye 🔻 Maximize On Play



Last thoughts

Research methods used in industry

- Personas and verification
- Concept testing with storyboards and prototypes
- User needs through survey and interviews
- Usability studies, weekly pace
- Diary study

Academic research

- Epistemology
- Design approach
- What resonates with you?



Questions?

Thanks!