SOCIAL MEDIA:

Cultural Catastrophe or Evidentiary Goldmine? A Prosecutor's Perspective

Rahul Gupta Sr. DDA, Major Fraud – Cybercrime



rahul.gupta@da.ocgov.com

DISCLAIMER

The views and opinions expressed in the written materials and in any of the presentations at this conference are those of the presenter and do not necessarily reflect the official policy or position of the Department of Business and Industry, Division of Industrial Relations. The Division does not warranty the materials' completeness or accuracy.



WARNING:

- I AM A LAWYER, I AM NOT YOUR LAWYER!
- NOTHING TODAY IS LEGAL ADVICE.



OUTLINE FOR TODAY

WHAT THIS IS:

 An overview of the impact of social media as evidence and legal foundations for admissibility.

WHAT THIS IS NOT:

Tutorial on how to use social media apps.

WHAT IS THE TAKEAWAY:

- The human brain prefers the visual image.
- Start looking for social media evidence by asking for it.

1

ATTENTION SPAN

ATTENTION SPAN

18, 1991

D. HEY, LOOK-SOMETHING



UNDERSTANDING YOUR JURORS

THE WALL STREET JOURNAL

Subscribe Now

me World U.S. Politics Economy Business Tech Markets Opinion Life & Arts Real Estate WSJ. Magazine

А-ПЕЛ

Ladies and Gentlemen of the Jury, Please Wake Up!

Lawyers and judges in complex trials are struggling with a rash of sleeping jurors



Death row inmate granted retrial after juror falls asleep

A death row inmate in the southern US state of Arkansas was granted a new trial after one juror during the original hearing was caught sending Twitter messages and another juror fell asleep.

"If you're a criminal-defense lawyer," says Joshua Dubin, a New York jury consultant and defense lawyer, "you pray the jurors fall asleep during the government's case and wake up during the cross-examination."



UNDERSTANDING YOUR JURORS

Sleepy Juror Gets Rude Awakening

By Caitlin Liu

Times Staff Writer

APRIL 20, 2005

uror No. 2386 had been sitting in a downtown Los Angeles courtroom for two days, waiting to be grilled by lawyers, when he let out a loud yawn.

"You yawned rather audibly there. As a matter of fact, it was to the point that it was contemptuous," said Superior Court Judge Craig Veals, who was presiding over jury selection for an attempted murder trial.

"I'm sorry, but I'm really bored," the juror replied.

"I'm sorry?" the judge responded, and the juror repeated his statement.

The judge called his attitude "lousy."

"Your boredom just cost you \$1,000.... I'm finding you in contempt," Veals said, according to an April 1 court transcript. "Are you quite so bored now?"



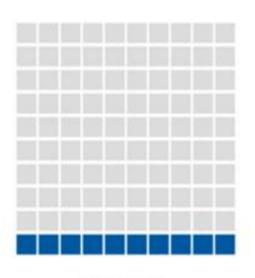
The human brain processes visual information 60,000 times faster than text



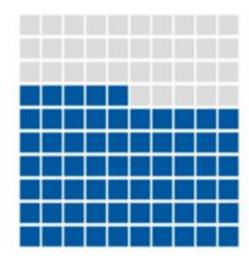
Processing print isn't something the human brain was built for ... Mother Nature has built into our brain our ability to see the visual world and interpret it. Marcel Just, Dir. Ctr. for Cognitive Brain Imaging at Carnegie Mellon Univ.

Picture Superiority Effect

Memory retention after 3 days



10% Text or Audio Only



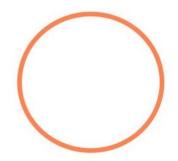
65% Text + Picture



PICTORIAL SUPERIORITY EFFECT

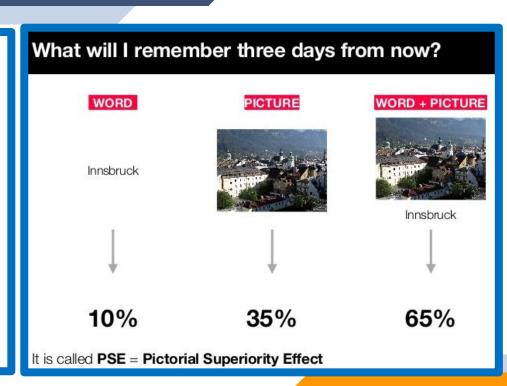
THE PICTURE SUPERIORITY EFFECT

CIRCLE



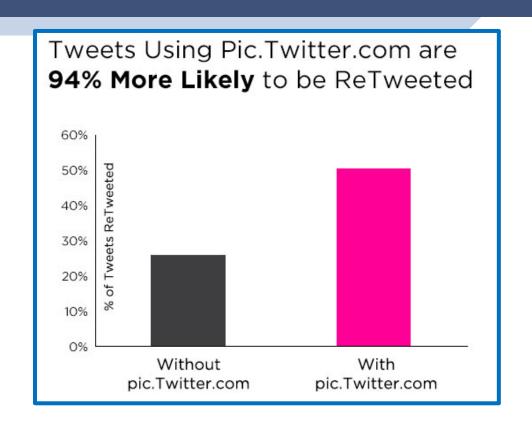
10% RECALL 72 HOURS LATER

65% RECALL 72 HOURS LATER





ATTENTION SPAN - SOCIAL MEDIA





Judges Reject Appeal in 'Sleeping Attorney' Case

By HENRY WEINSTEIN

TIMES LEGAL AFFAIRS WRITER

OCTOBER 28, 2000

COSBY TRIAL | APR. 26, 2018

Bill Cosby's Lawyer Fell Asleep in Court

By Natalie Hope McDonald

Mistrial declared in brothers' murder trial after lawyer falls asleep in court







INATTENTIVE JUDGES

Wake Up! The Proper Error Analysis for the Case of a Sleeping Judge [State v. Johnson, 391 P.3d 711 (Kan. App. 2017), cert. granted Sept. 29, 2017.]

Morgan E. Hammes | April 3, 2018 | PDF Version (76 KB)

[T]he role of the judge and the jury are different. You are the trier of facts. I decide what evidence you will hear and what instructions you will receive. I don't believe during the course of this trial yesterday afternoon there were any objections raised that I had to make rulings on that would have been affected by my nodding off. I acknowledge myself, ladies and gentlemen, that I did nod off some. I doubt that I'm the first judge in America that's ever done that. [12]



WITNESSES, VICTIMS, DEFENDANTS









The average page visit lasts less than a minute and users often leave web pages in just

10-20 SECONDS



On the average web page, users will read at most

of the words during an average visit: 20% is more likely.



LIVING

Americans check their phones 80 times a day: study

November 8, 2017 | 4:08pm



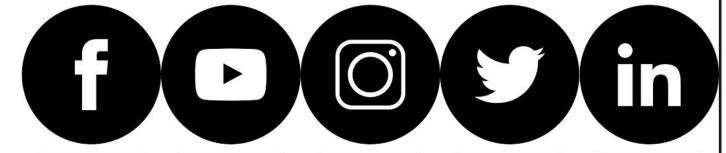


That's how many time average US smartphone users touch their phones every day—including tapping, typing, swiping and



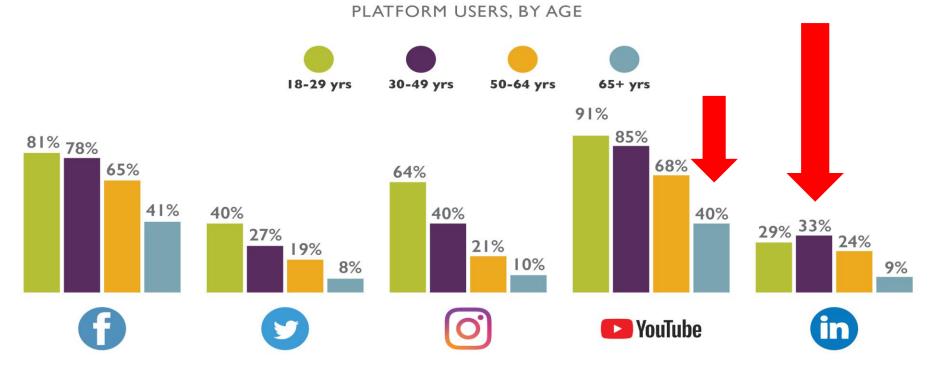
SOCIAL MEDIA DEMOGRAPHICS

Social Media Statistics January 2018



2.167 billion active users 1.5 billion active users 800 million active users 330 million active users 260 million active users

ONLINE SOCIAL NETWORKING



Social Media Platforms

PLATFORM USE BY GENDER

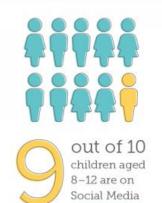
FACEBOOK	U.S. Adults 68%	Men 62%	<u>Women</u> 74 %
TWITTER	24%	23%	24%
LINKEDIN	25%	25%	25%
PINTEREST	29%	16%	41%
SNAPCHAT	27%	23%	31%
INSTAGRAM	35%	30%	39%

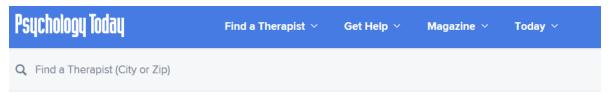


SOCIAL MEDIA PSYCHOLOGY

Are Digital Devices Altering Our Brains?

Some say our gadgets and computers can help improve intelligence. Others say they make us stupid and violent. Which is it?







Liraz Margalit Ph.D.Behind Online Behavior

What Screen Time Can Really Do to Kids' Brains

Too much at the worst possible age can have lifetime consequences.

Posted Apr 17, 2016

2

CURRENT TRENDS

WHAT'S POPULAR - HOUSEPARTY

Join the party with your friends.



You never know which friends will drop in...



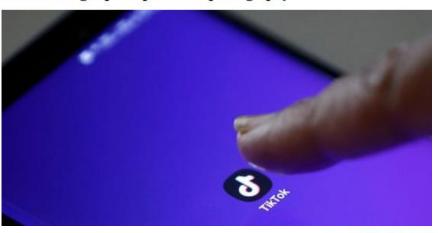
Leave a Facemail when your friends can't join.



WHAT'S POPULAR – TIKTOK and YELLOW

Tiktok: India bans video sharing app

Activist group launched case against Chinese-owned app which it said encouraged paedophiles and pornography



Swipe Right to like, left to pass



Yellow app

re-branded as

Yubo

New Friend If it's a mutual like



DISAPPEARING MESSEGING APPS



Facebook Messenger, What's App, Snapchat

CRYPTO



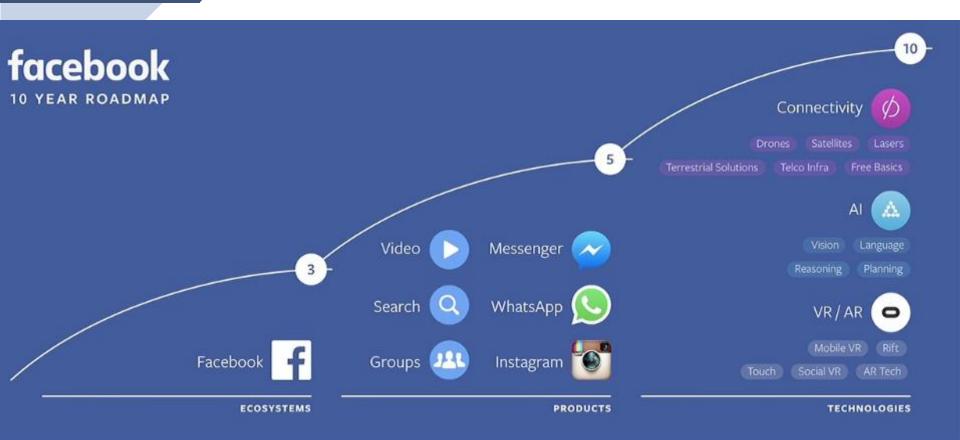






Exchanges

Wallets









What is Augmented Reality?





Real-world environment (Reality)



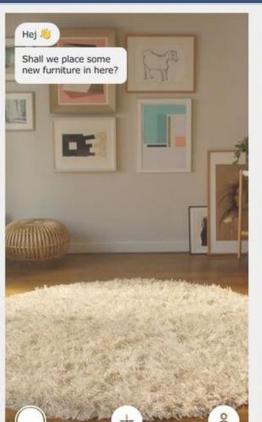
Augment Reality

How does it work?

Pick a real world scene Virtual object added in it Visualizes the digital as if it's real

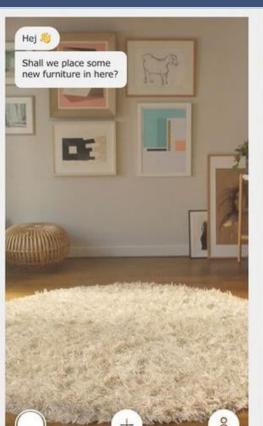


















VIRTUAL REALITY - is when you are immersed in the digital world (headsets) (VR)





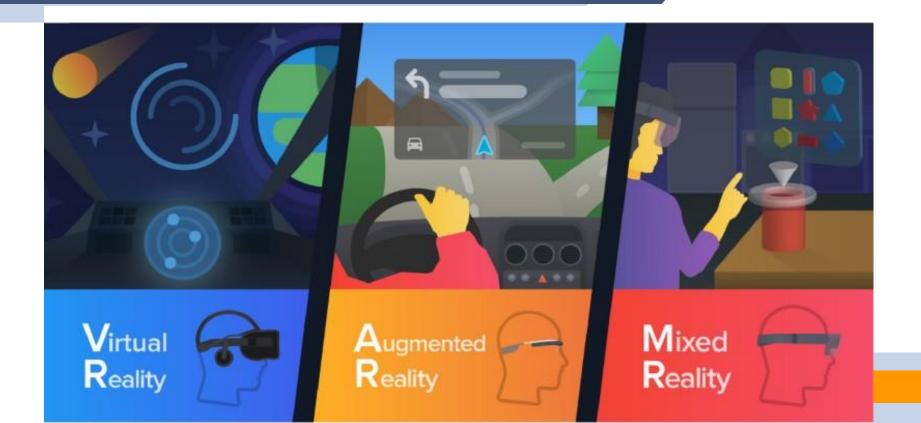


MIXED REALITY- when you have digital objects in the real world and you can interact with (MR)





VR vs. AR vs. MR

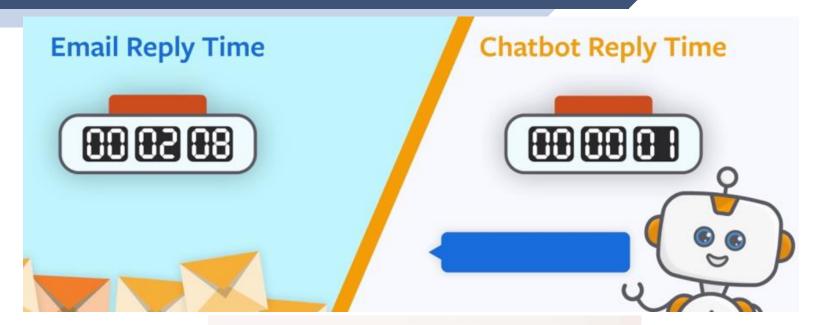




What is a CHATBOT?

- A chat robot, a computer program that simulates human conversation, or chat, through artificial intelligence.
- It is a service, powered by rules and artificial intelligence, that you interact with via a chat interface.
- The service could be any number of things, ranging from functional to fun, and it could live in any major chat product (Facebook Messenger, Slack, Telegram, Text Messages, etc).





"Chatbots are the new apps"

Microsoft CEO Satya Nadella











HOME · SUBSCRIPTIONS · RESEARCHSTORE · SERVICES · HARVEST · CONSULTA

Home > Press > Press releases > Bank Cost Savings via Chatbots to Reach \$7.3 Billion by 2023, as Automated Cu

BANK COST SAVINGS VIA CHATBOTS TO REACH \$7.3 BILLION BY 2023, AS AUTOMATED CUSTOMER EXPERIENCE EVOLVES

Representing a Growth in Operational Savings of 3,400% from 2019

By 2020, the customer will manage

85%

of its relationship with an enterprise without interacting with a human.

Source: Gartner



11:50 AM

I'm going to Chicago next week. I'm looking for a great burger. Where should I go? People rave about Command Burger.



Command Burger Downtown Chicago commandburger.com



Do you want me to make you a reservation?

Yeah, that would be awesome!





MESSAGING BOTS / CHAT BOTS

Tinder safe dating spam uses safety to scam users out of money

Scammers drive users to fake verification site that signs them up to adult webcam and erotic video websites.



In recent weeks, we have noticed spam activity on Tinder claiming to promote safety in online dating in messages to users. This is used as a lure to funnel affiliate money into the scammers' pockets.

It's the latest spam trend to hit the mobile dating app. Since 2013, we have published a few blogs detailing the rise of spam bots on the popular mobile dating application, Tinder. While Tinder has changed its service recently with the introduction of a premium offering, the app remains a popular destination for spammers.





GAMING CHATS





GAMING CHATS

ZDA9ZDAROVA: mate

ZDARZDAROVA: you need to update

ZDASZDAROVA: cuz

ZDARZDAROVA: i don't hear you

ZDAAZDAROVA: :((

ZDARZDAROVA: sec

ZDARZDAROVA: http://mumblesoftware.net

ZDARZDAROVA: we are using that

ZDA9ZDAROVA: mate

ZDARZDAROVA: join pls

ZDARZDAROVA: press then room 5 estonia

Ziggy Stardust: what is the mumble info?



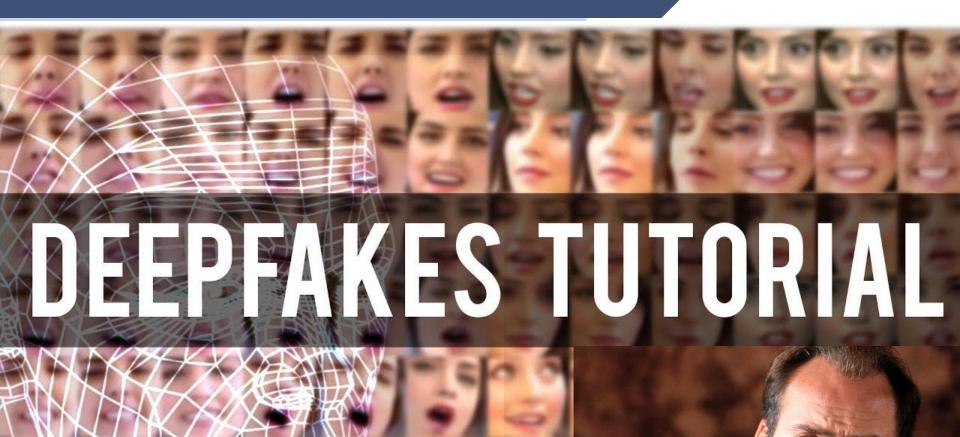
Deepfakes may ruin the world. And they can come for you, too

Deep Fakes: A Looming Crisis for National Security, Democracy and Privacy?





LIVESTREAMING







Celebrity to Pornstar Matches

Discuss which celebrities and pornstars you think match well. Ask the community for recommendations on look-a-likes or matches for your next deepfake.

Threads: 21 Posts: 77

Celebrity DeepFakes

All celebrity porn deepfakes can be shared here. Users may share their creations, or videos from other sources.

SUB FORUMS:

Recent celebrity deepfake porn videos

Threads: 123 Posts: 316

Request:

All adult deepfake requests can be made here. Found a celebrity with no deepfakes yet? Request them here and maybe you'll get lucky!

SUB FORUMS:

PAID Requests

Threads: 368 Posts: 1.142



Emilia Clarke 9156 Faceset

Replies: 0 Views: 260

COMPUTING

Facebook wants to own your face. Here's why that's a privacy disaster



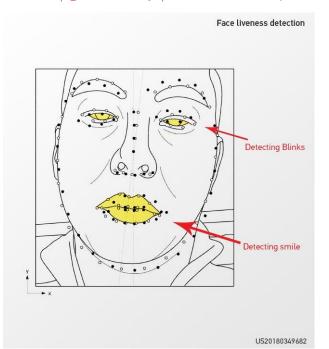


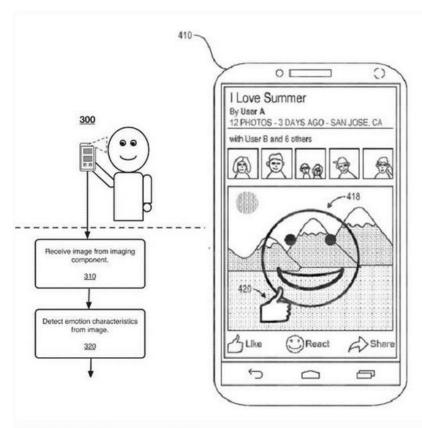
A Facebook patent would use your family photos to

target ads

But it can already figure out a lot of details without them

By Adi Robertson | @thedextriarchy | Nov 15, 2018, 12:24pm EST

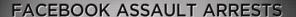




Facebook Patent Filing Images FACEBOOK



LIVESTREAMING











Aggravated Kidnapping; Hate Crime; Aggravated Unlawful Restraint; Aggravated Battery Deadly Weapon









LIVESTREAMING

Facebook Live

Periscope



Youtube Live



Meerkat

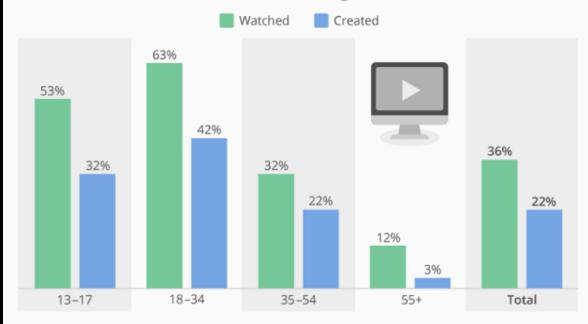


Twitch



Who's Watching & Creating Live Streaming Video in the U.S.

Internet users who watched or created live streaming video on social media





As of January 2017



3

CA CODE SECTIONS

"Data doesn't sit in our minds as much as stories do. Even more important, stories have emotion that data doesn't." Dan Ariely, Behavioral Economist



EC 140 – REAL EVIDENCE

Evidence means testimony, writings, material objects, or other things presented to the <u>senses</u> that are offered to prove the existence or nonexistence of a fact.



AUTHENTICATION OF WRITINGS



- Is the evidence relevant?
- Can it be authenticated
- Can you overcome any valid objection/exclusion?

EC 250 – Defines Writings

Writing means a handwriting, typewriting, photostating, photographing, photocopying, transmitting by electronic mail or fax, and every other means of recording upon any tangible thing, any form of communication or representation, including letters, words, pictures, sounds, symbols, or combinations thereof, and any record thereby created, regardless of the manner in which the record has been stored.

Digital Photographs and Videos (Social Media Evidence)

P vs. Goldsmith (2014) 59 Cal.4th 258 = SOCIAL MEDIA



EC 1440 – AUTHENTICATION

- EC 1400(a) Any evidence sufficient to sustain a finding that the writing is what the proponent claims it to be (through a witness), or
- EC 1400(b) the establishment of such facts by any other means provided by law. (circumstantial evidence, content, location, stipulation, presumption)

NV CODE SECTIONS

- NRS 52.015(1) authentication is satisfied by <u>evidence or</u> <u>other showing</u> sufficient to support a finding that the matter is what the proponent claims – similar to EC 1400(a)
- NRS 52.015(2) examples (personal knowledge) are illustrative and not restrictive – Similar to EC 1400(b)
- NRS 52.015(3) every authentication is rebuttable similar to P vs. Goldsmith and P vs. Retke … but presumptions are rebuttable

NV CODE SECTIONS

When opposing party objects (NRS 47.040(1)(a):

- The Proponent must explain the purpose for which the evidence (text) is being offered.
- Provide sufficient direct and circumstantial corroborating evidence of authorship in order to authenticate the evidence (text)
- *Once admitted, the opponent may rebut authentication and it is for the jury to decide whether the proponent sufficiently proved his or her claims regarding the text message.



EC 1552 – PRESUMPTIONS

- 1552(a) A printed representation of computer information or computer program is presumed to be an accurate representation of the computer information or program it purports to represent
- 1553(a) A printed representation of images stored on a video or digital medium is presumed to be an accurate representation of the images it purports to represent.
- *NOTE: P vs. Retke (2015) 232 Cal.App. 4th 1237, the presumption can be rebutted.



EC 403 – PRELIMINARY FACT

EC 403(A)(3) — The trial court determines authentication as a preliminary fact. "The proper standard is that of preponderance of the evidence. The court must determine whether the evidence is sufficient to permit the jury to find a preliminary fact to be true by a preponderance of the evidence...even if the court would personally disagree." P vs. Marshall, 13 Cal.4th 799 (1996)

OBJECTIONS

- EC 1200 Hearsay most common objection
- EC 1271 Business Records most common exception
- What if you don't have an expert/custodian of records?



HEARSAY EXCEPTIONS: Admission



NRS 51.035(3)(a) Admission

Im going to prison or death sentence for killing my wife love you guys miss you guys takecare Facebook people you will see me in the news" my wife was punching me and I am not going to stand anymore with the abuse so I did what I did I hope u undarstand me "





HEARSAY EXCEPTIONS: Adoptive Admission



Nrs 51.035(3)(b) -**Adoptive Admission** -Statement offered against a party and is a statement of which the party has manifested adoption or belief in its truth



HEARSAY EXCEPTIONS: Excited Utterance



NRS 51.095 -**Excited** utterance - "A statement relating to a startling event or condition made while the declarant was under the stress of excitement caused by the event or condition



HEARSAY EXCEPTIONS: EC 1241



NRS 51.085 present sense impression - "A statement made describing or explaining an event or condition made while the declarant was perceiving the event or condition, or immediately thereafter."



AUTHENTICATION OF WRITINGS



- Is the evidence relevant?
- Can it be authenticated
- Can you overcome any valid objection/exclusion?

4

CA CASE LAW



WHAT IS SOCIAL MEDIA

Digital photos and videos are writings (EC 250) P vs. Goldsmith (2014) 59 Cal.4th 258

Cases to rely upon:

- P vs. Goldsmith (2014) 59 Cal.4th 258
- P vs. Valdez, (2011) 201 Cal.App 4th 1429
- In RE KB (2015) 238 Cal.App.4th 989
- Kinda vs. Carpenter (2016) 247 Cal.App.4th 1268



P vs. Goldsmith (2014) 59 Cal.4th 258

- 1. The purpose of the evidence will determine what must be shown for authentication.
- 2. Proponent must show sufficient evidence for the trier of fact to find that the writing (photo/video) is what it purports to be, genuine for the purpose offered.
- 3. A photograph or video recording is typically authenticated by showing it is a *fair and accurate* representation of the scene depicted.
- 4. This foundation may, but need not be, supplied by the person taking the photo or by a person who witnessed the event being recorded...circumstantial evidence, content or location or <u>any other means provided by law</u>, such as stipulation or presumption.



P vs. Goldsmith (2014) 59 Cal.4th 258

- 5. "The fact that conflicting inferences can be drawn regarding authenticity goes to the documents weight as evidence, not its admissibility." (Id. at 267.)
- It is then up to the jury to decide whether they believe the digital evidence is what it purports to be, whether the jury believes it is authentic.

Opposing Party View of Social Media

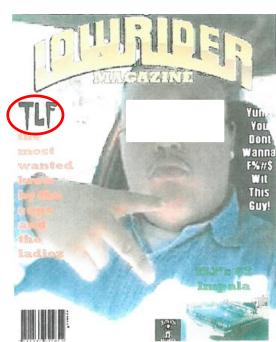
- Internet...hackers can adulterate the content of any web-site from any location at any time."
 - P vs. Beckley (2010) 185 Cal.App.4th 509, at 515, quoting St. Clair vs. Jonny's Oyster & Shrimp, Inc (S.D. Tex. 1999) 76 F. Supp.2d 773, 775).



P vs. VALDEZ, 201 Cal.App.4th 1429

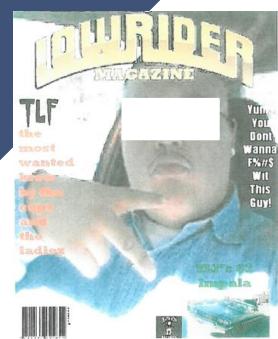


- Facts: TLF gang member, aka "Yums" on trial for attempted murder. DA introduced pages of Def's Myspace account.
- Issue: Lack of authentication, hearsay, 352
- Held: Social media properly authenticated, distinguishes Beckley.
- "The contents of a document may authenticate it...
 the writings on the page and the photograph
 corroborated each other by showing a pervading
 interest in gang matters...this consistent, mutually
 reinforcing content on the page helped
 authenticate the photographs and writings."



P vs. VALDEZ, 201 Cal.App.4th 1429

Proponents threshold for authentication is not to establish validity or negate falsity in a categorical fashion, but rather to make a showing on the which the trier of fact reasonably could conclude the proffered writing is authentic."





IN RE KB, 238 CAL.APP.4TH 989



- Facts: SFPD sees a post of Def holding a firearm in an apt with camo curtains Posted on Instagram. Officers find firearms and Instagram photos.
- Held: Social media properly authenticated, distinguishes Beckley.

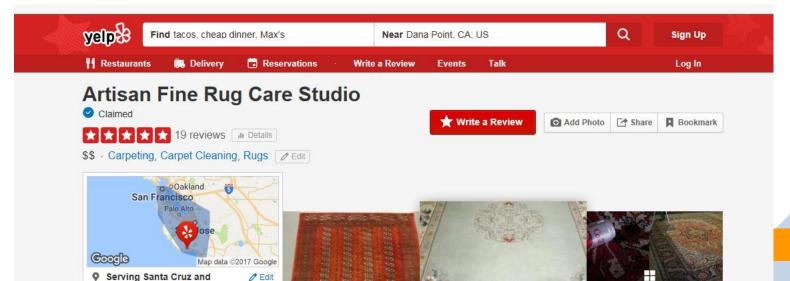
"To the extent Beckley's language can be read as
Requiring a conventional evidentiary foundation to show
the authenticity of photographic images appearing online,
i.e., testimony of the person who actually created and
uploaded the image, or testimony from an expert witness
that the image has not been altered,

we cannot endorse it."



KINDA vs. CARPENTER 247 CAL.APP.4TH 1268

Facts: Tenant sues landlord for posting anonymous negative Yelp reviews days after TRO issued against landlord. IP addresses come back to landlord's residence and place of work. Trial court required tenant to prove Def made the postings to establish authentication. Appellate court reversed.





KINDA vs. CARPENTER 247 CAL.APP.4TH 1268

- COURT: "[B]efore it comes into evidence, you have to give me some connection that you can prove he posted them. If you can't do that, I'm not going to let it into evidence and we don't even have to have this discussion.
- PLAINTIFFS ATTORNEY: "Well, it's an issue of fact, Your Honor, and I think I can show that there's sufficient connect the dots—I mean what are the odds that somebody decided to drive over to his house, park in front of his house, and as the expert testified—
- THE COURT: Yeah, you're going to have to. You need to understand that <u>lam</u> concerned about the authenticity of this, if that's the correct word. You have to tie it back to him. And unless somebody persuades me that there is sufficient evidence that ties it back to him, then it's not going to come in."



4

NV CASE LAW

Rodriguez vs. State of Nevada (2012) 273 P.3d 845

Facts: Victim robbed of cell phone and sexually assaulted. Victim's boyfriend got messages from suspects after attack. 12 Text messages introduced to prove Def's guilt. Video showed Def with other suspect on bus when 2 msgs sent.

Issue: Was authentication of text messages proper?

Holding: Yes, but only 2 out of 12. Bus video showed Def was next to other suspect and present when drafted during time 2 messages sent. Messages were not hearsay, they were statements of the Def (NRS 51.035(3)(b) "The content of messages can be circumstantial evidence to ID the sender when the content references facts unique to the parties involved," (NRS 52.015(1)&(2)

Court's analysis was similar to that in *People vs. Goldmith*:

- Evidence must be relevant (NRS 48.025(2)). Authentication is satisfied by evidence or other showing sufficient to support a finding that the matter is what its proponent claims (NRS 52.015(1).
- The proponent can control what will be required to satisfy the authentication requirement by deciding what he offers to prove.
- Corroborating evidence is critical authenticating text messages.

When opposing party objects (NRS 47.040(1)(a):

- The Proponent must explain the purpose for which the evidence (text) is being offered.
- Provide sufficient direct and circumstantial corroborating evidence of authorship in order to authenticate the evidence (text)
- *Once admitted, the opponent may rebut authentication and it is for the jury to decide whether the proponent sufficiently proved his or her claims regarding the text message

In Matter of MC vs. State of Nevada (2015) 2015 WL 865320, No. 64839 (unpublished)

Facts: Def posts threat of "killing spree" on Facebook. Officers were monitoring Def's facebook by creating fake account and friending Def. Issue: 1) Did police violate 4th Amend with fake facebook page; 2) Officer lacked personal knowledge to testify about Def's facebook page; 3) Officer's testimony about other info on the facebook page was inadmissible hearsay.

<u>Holding</u>: 1) Def has no reasonable expectation of privacy in information he turns over to third parties; 2) sufficient direct and circumstantial evidence authenticated the Def's facebook post;

- Def admitted making threatening post
- Later posts referred back to the threat
- No indication facebook account accessed by anyone else
- 3) Officer testifying about Def's ref to gang moniker and gang affiliation posted on facebook was a party admission.

Stewart vs. State (2017) 2017 WL 3708988, No. 70976 (unpublished)

Facts: Def shot girlfriend and sent threatening messages over Facebook and text.

Issue: Were the messages properly authenticated?

Holding: Yes. "Evidence or other showing sufficient to support a finding that the matter in question is what it's proponent claims." NRS 52.015(1). Girlfriend testified she knew the messages were from the Def because he used his first name and one message referenced a court date only Def would know about.

Jones vs. Jones (2016) 2016 WL 796969, No. 69088

Facts: Husband files for divorce in Washoe. Wife request change of venue to Douglas. Husband claims Wife has no ties to Douglas and most of her belongings are in still in marital home in Douglas. Husband doesn't provide any evidence.

Issue: Did Husband carry his burden?

Holding: No. Plaintiff has burden to prove proper venue. Wife submitted as evidence Husband's Instagram: "Man...pretty heavy day today coming home to see moving trucks. You know it's gonna happen, but it's impossible for something like that not to affect you." Thus, there was evidence that wife indeed moved out and likely took her personal belongings."



AUTHENTICATION OF WRITINGS



- Is the evidence relevant? [EC 140, 210, 350, 351]
- Can it be authenticated [EC 1400, 403(a)]
- Can you overcome any valid objection/exclusion?
 [EC 1200, 352]

"Data doesn't sit in our minds as much as stories do. Even more important, stories have emotion that data doesn't."

Dan Ariely, Behavioral Economist



WHAT IS THE TAKEAWAY:

- The human brain prefers the visual image.
- Start looking for social media evidence just by asking about it.



SOCIAL MEDIA:

Cultural Catastrophe or Evidentiary Goldmine? A Prosecutor's Perspective

Rahul Gupta Sr. DDA, Major Fraud – Cybercrime



rahul.gupta@da.ocgov.com

Don't Forget . . .

Please fill out the Evaluation Online: http://dir.nv.gov/WCS/Training/

Session 6A- Social Media: Cultural Catastrophe or Evidentiary Goldmine? A Prosecutor's Perspective

For complimentary Wi-Fi select the Tuscany Conventions