

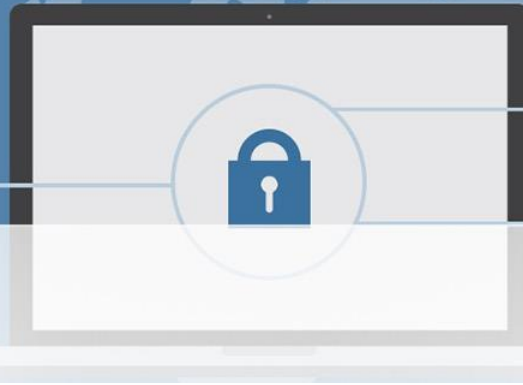


Deepfakes

Part 1. What are they?

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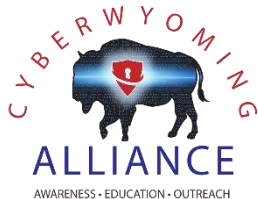
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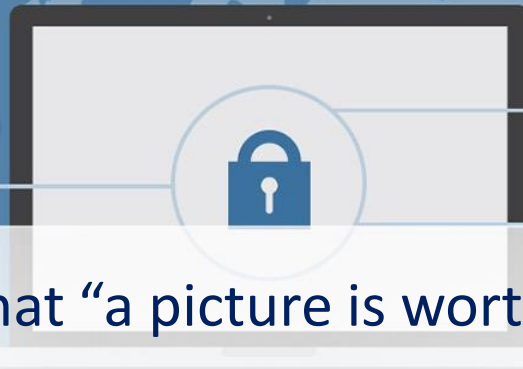
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What can we believe?

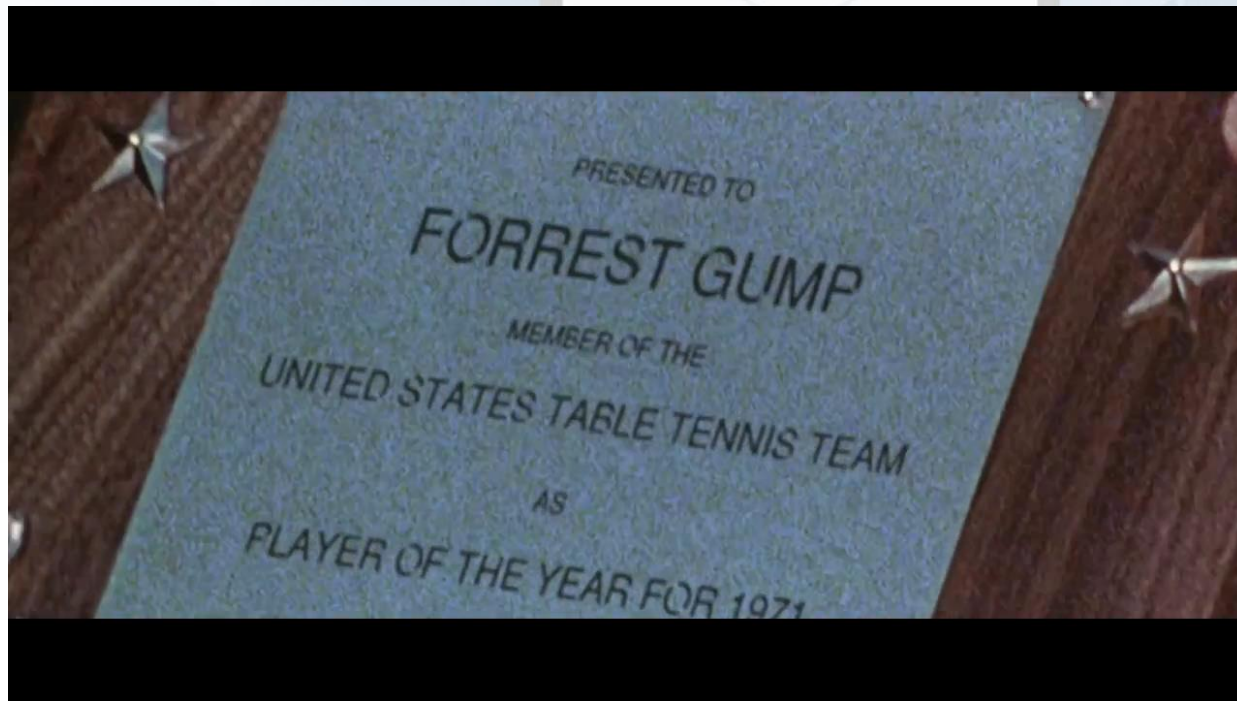


- We've all heard the phrase that "a picture is worth a thousand words".
 - What is meant by this is if I have a photograph of something, it is hard to deny that what in the picture didn't happen.
 - Extending this, if I have a video of somebody saying or doing something, it is even better!
- But is it?
- Can we fake a picture or a video so what I am seeing and hearing actually did not occur?

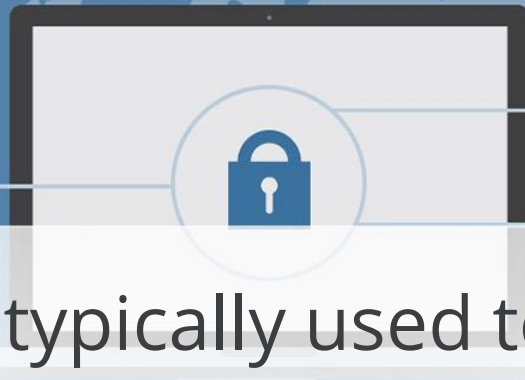
What about these?



And this?



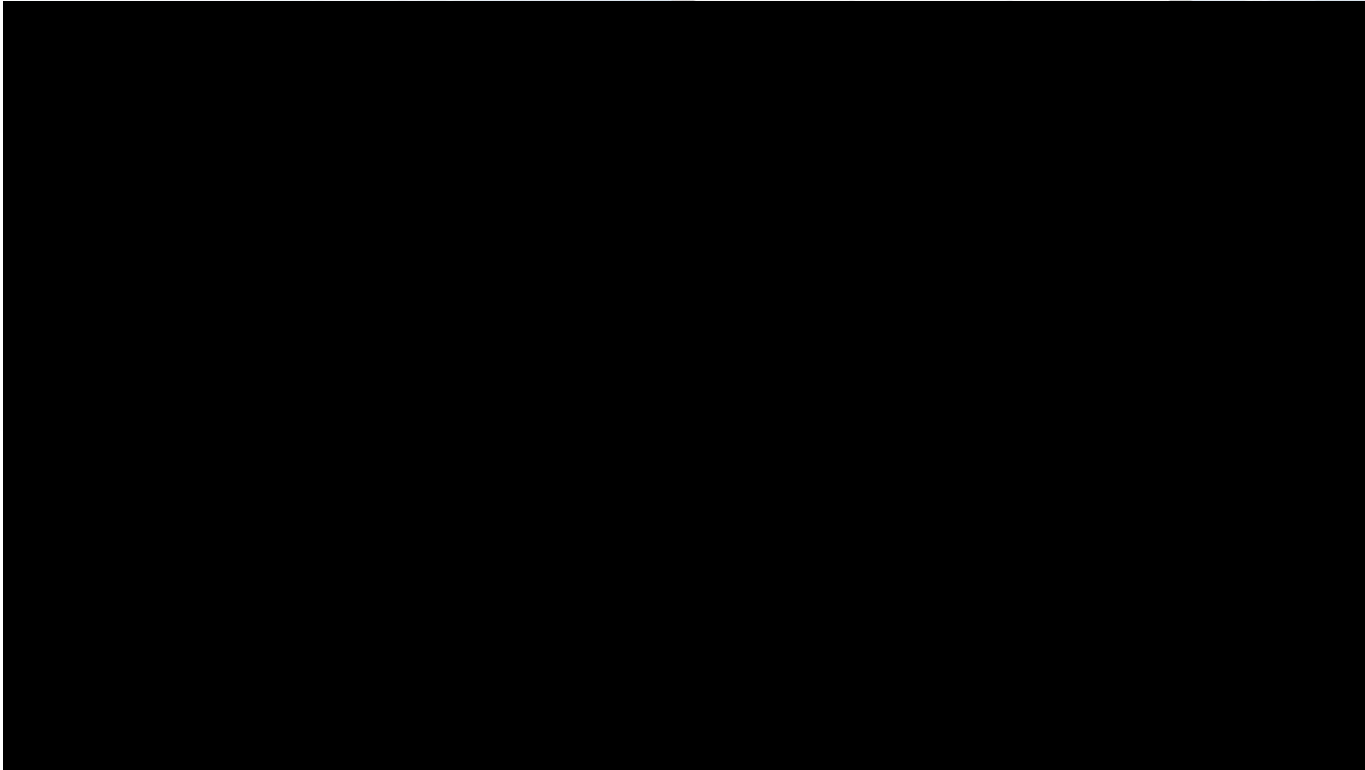
Deepfakes



- “The term *deepfake* is typically used to refer to a video that has been edited using an algorithm to replace the person in the original video with someone else (especially a public figure) in a way that makes the video look authentic.”

– From: <https://www.merriam-webster.com/>

Deep Fake Example



Summary



- Pictures may not be worth a 1000 words anymore!
- Neither are videos.
- What might be the impact of a deepfake video on an election if introduced without enough time to determine whether it was fake or not?
- As technology progresses, this may very well become a significant issue.



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