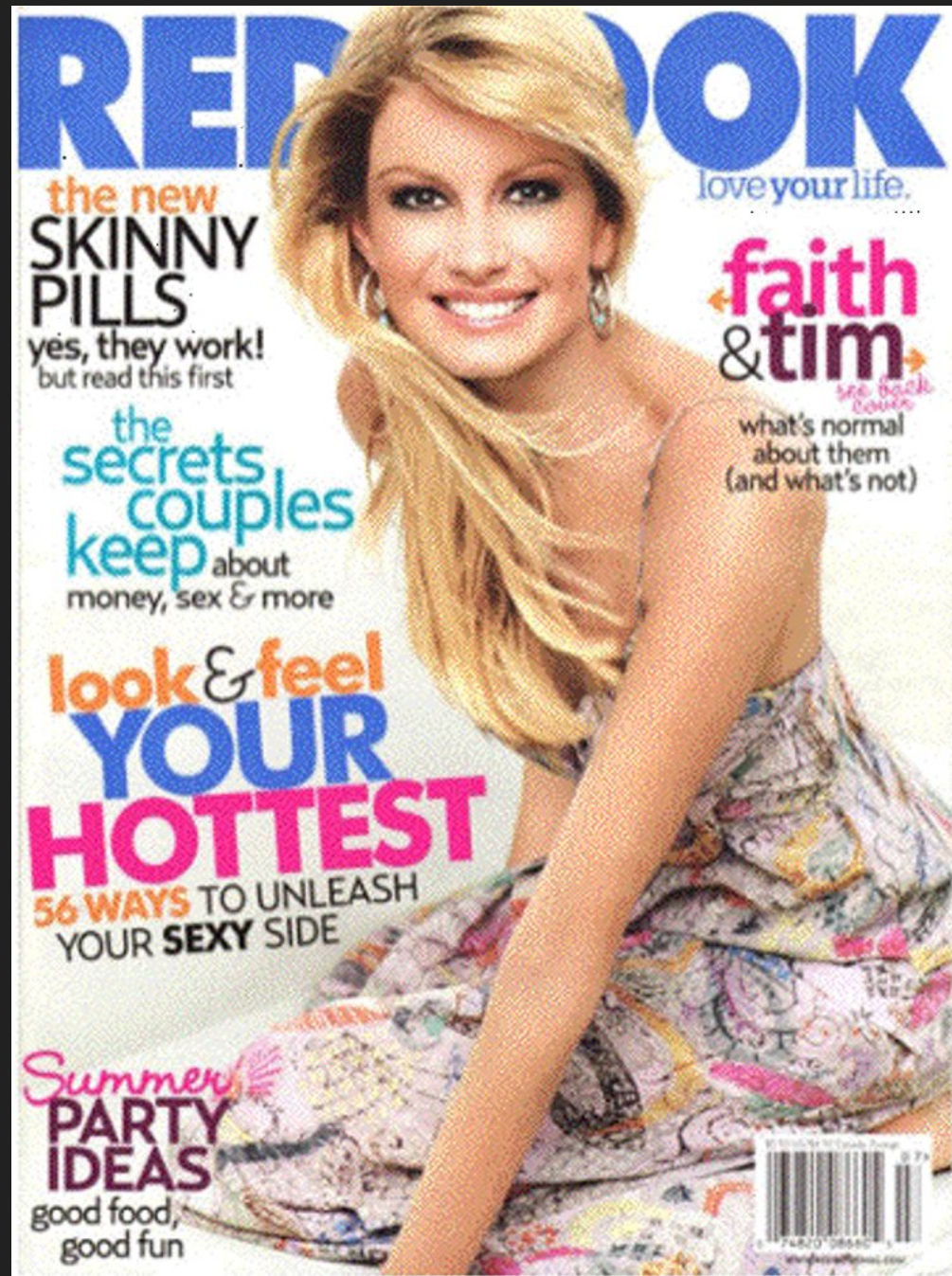


Image Manipulation, Deepfakes, and Media Literacy

PHOTOSHOP, 1988





Turn Xmas calories into muscle Get fitter not fatter!

Earn more
MONEY
BY WORKING 15
FEWER HOURS
EVERY WEEK!

FIT FOR LIFE
January 2018
Men's Fitness

**LOSE
YOUR
GUT**

No gym? No problem!
Expert tips to get ripped without any training kit

**SLEEP TO GET
SMARTER**

*How a lie-in can boost
your brain power*

**+
SCULPT
A SOLID
SIX-PACK**
*WITH OUR BODYWEIGHT
ABS CIRCUIT!*

**Torch fat
with steak
sarnies!**
*Why it's time to
put bread back
on the menu*

HOW TO...
**MAKE HILL
RUNNING
FEEL EASY**

+45
**INSTANT STYLE
UPGRADES FOR
ACTIVE MEN**

**THE SECRET
SUPP THAT
BURNS FAT!**

+3
**WAYS TO DOUBLE
YOUR STRENGTH
IN 28 DAYS**

**BUILD
BIGGER
ARMS!**
*Try this workout hack
to add serious size*

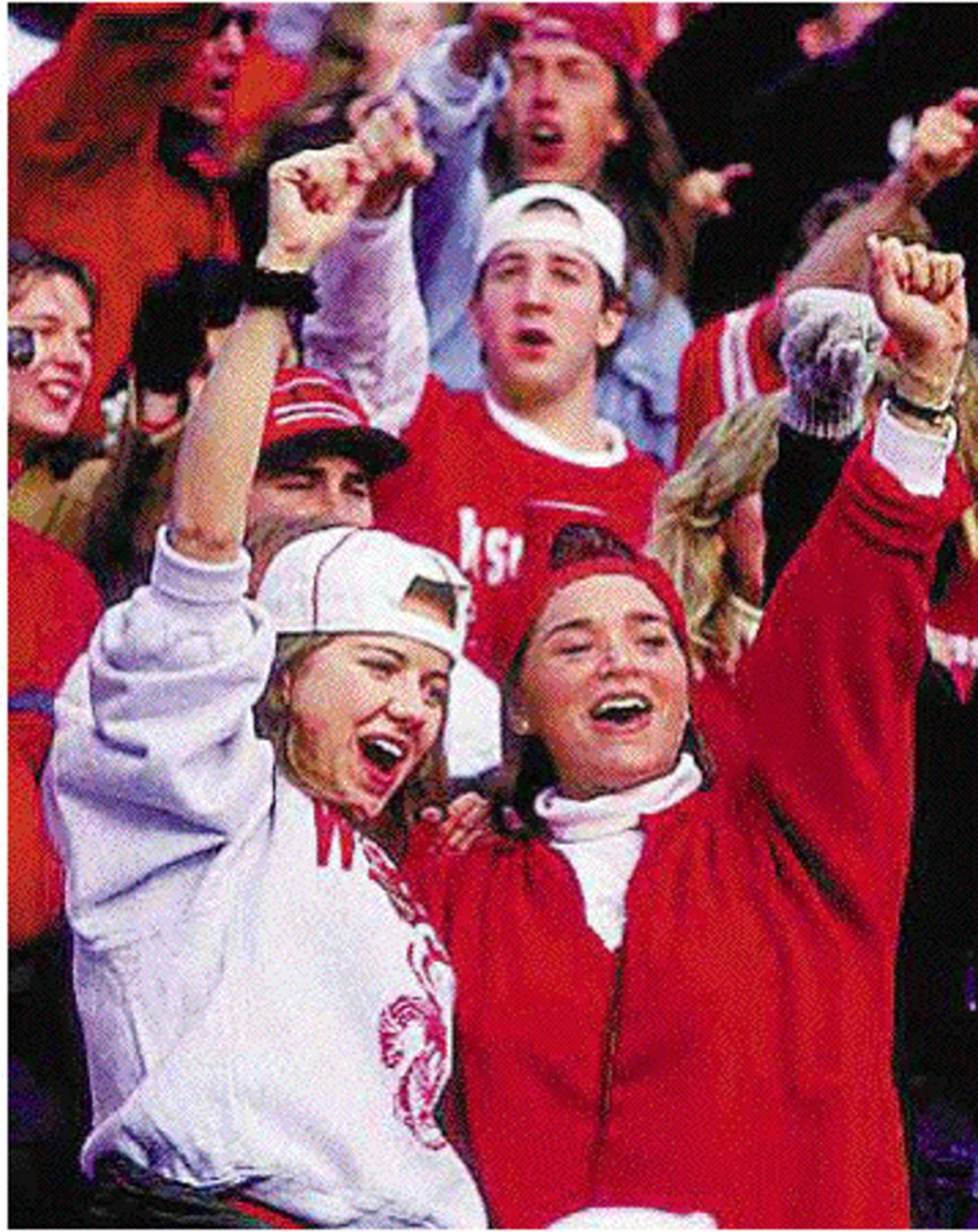
9 771465 543125 01 > 5230

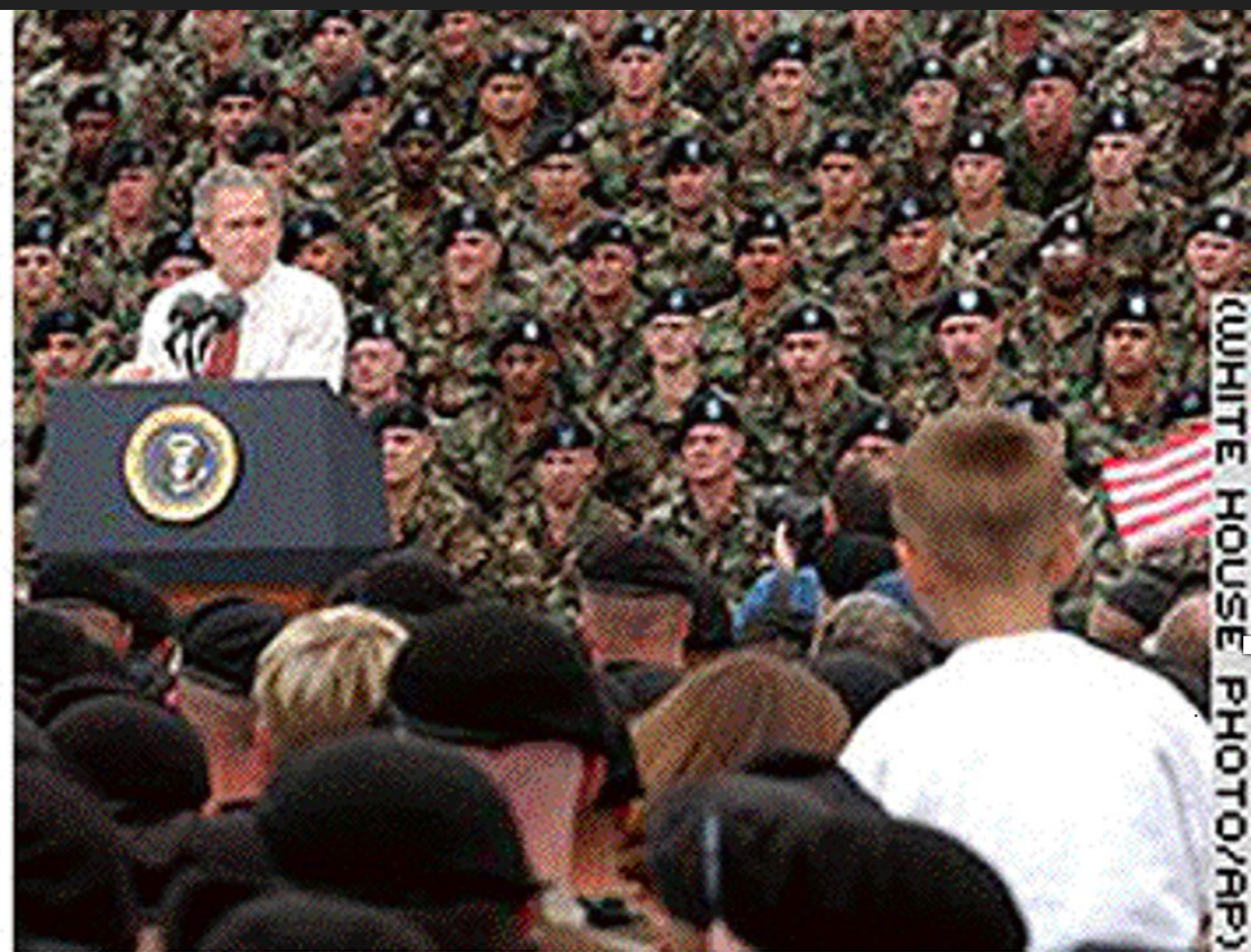
www.ebook3000.com

WISCONSIN

2001-2002
Undergraduate
Application

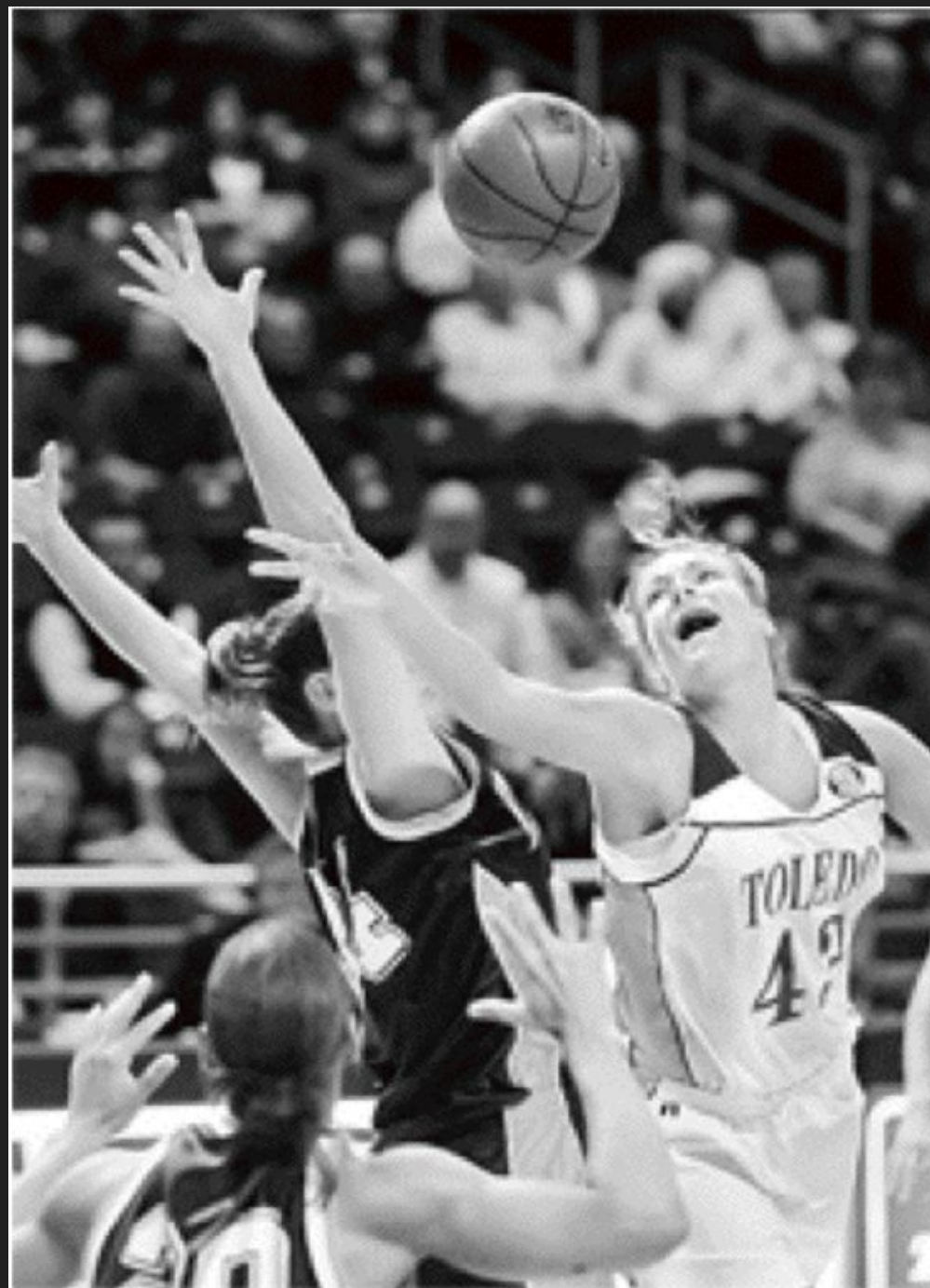
University of Wisconsin-Madison

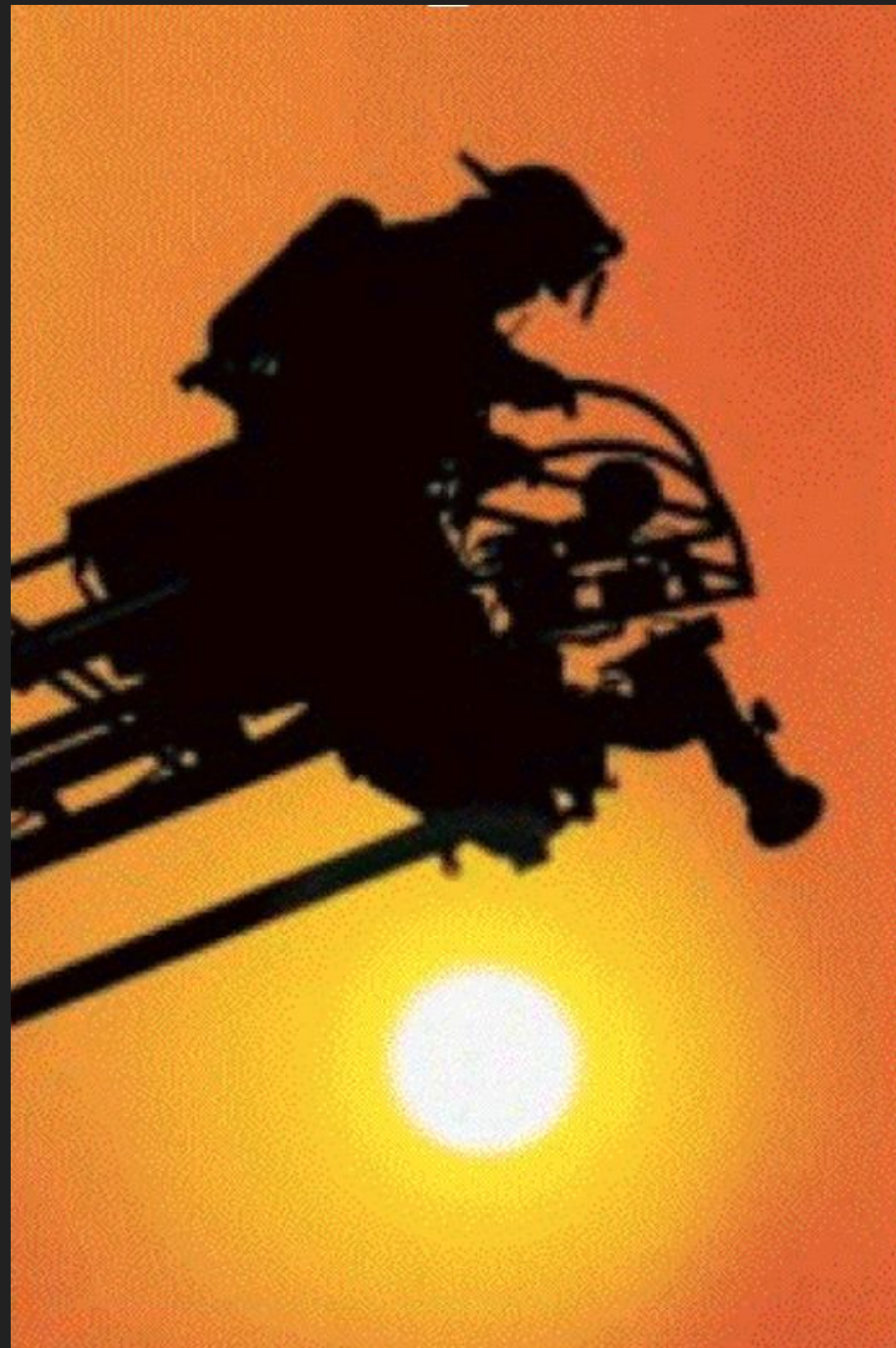






2003







Canva

Instagram
Snapseed
TouchRetouch



HILARIOUS
PHOTOSHOP FAILS





DEEPFAKES

DEEPFAKES= “deep learning” +
“fake”

DEEPFAKES= “deep learning” +
“fake”

SYNTHETIC VIDEO



✕ termed with Portraits - Individual



1860 1870 1880 1890 1900 1910 1920 1930 1940 1950 1960 1970 1980 1990 2000

1968

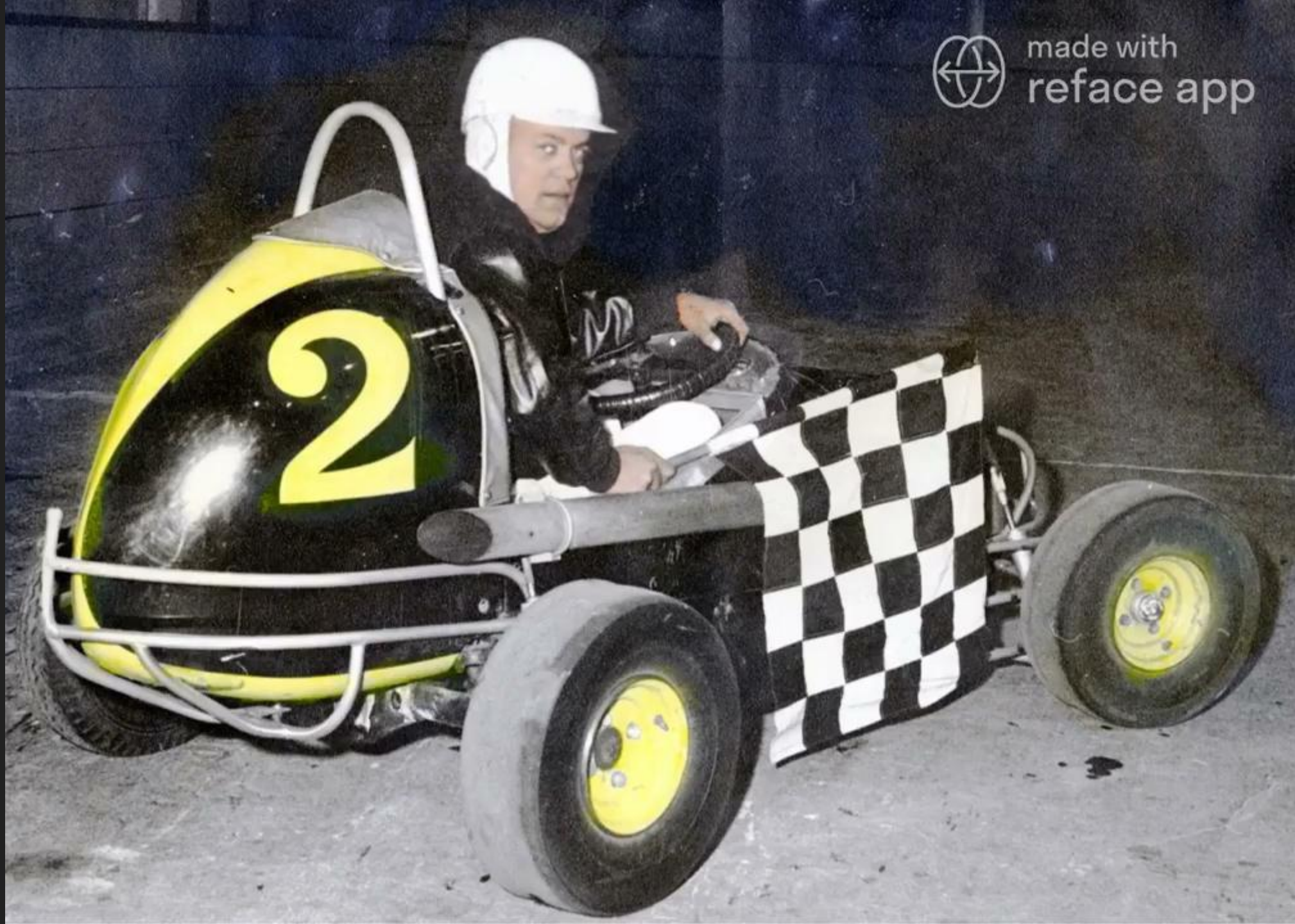


Deep Nostalgia app





made with
reface app



10

FUTURE READINESS

A 'deepfake' to be precise.

IS THIS TOM CRUISE?

Page
Six®



Page
Six

'Deepfake' Tom Cruise goes viral on TikTok with ...



Watch later



Share

**NEW
YORK
POST**



MORE VIDEOS



0:02 / 0:54



YouTube



TIKTOK: @deeptomcruise

DEEPFAKE audio:
voice cloning, or text-to-speech.

Ultra-realistic voice cloning

Overdub lets you create a text to speech model of your voice.

[Get started for free →](#)



WITH ONLY 5 SECONDS OF AUDIO

Clone & Synthesize Any Voice

BUY NOW

Generate speech from text

Generate voice clips up to 300 characters.

[Login](#) to generate voice clips up to 1000 characters.

Add text to generate.

Enter here the text you want to generate speech of

Choose the voice:

United States male voice

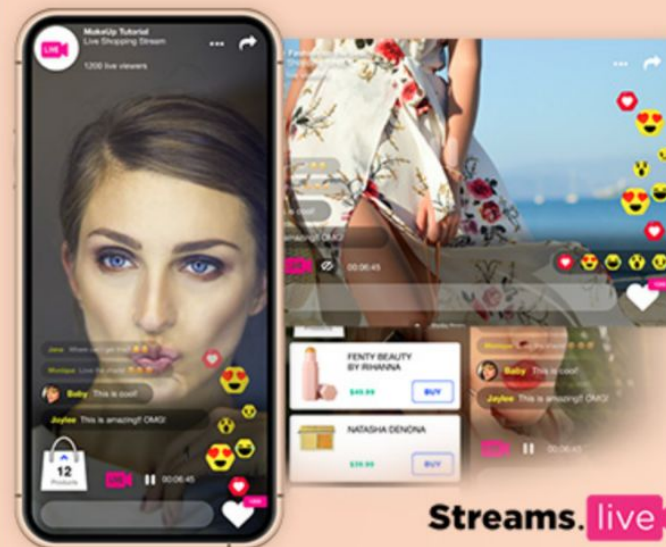
Choose Text or SSML ([Read more on SSML](#)):

TEXT

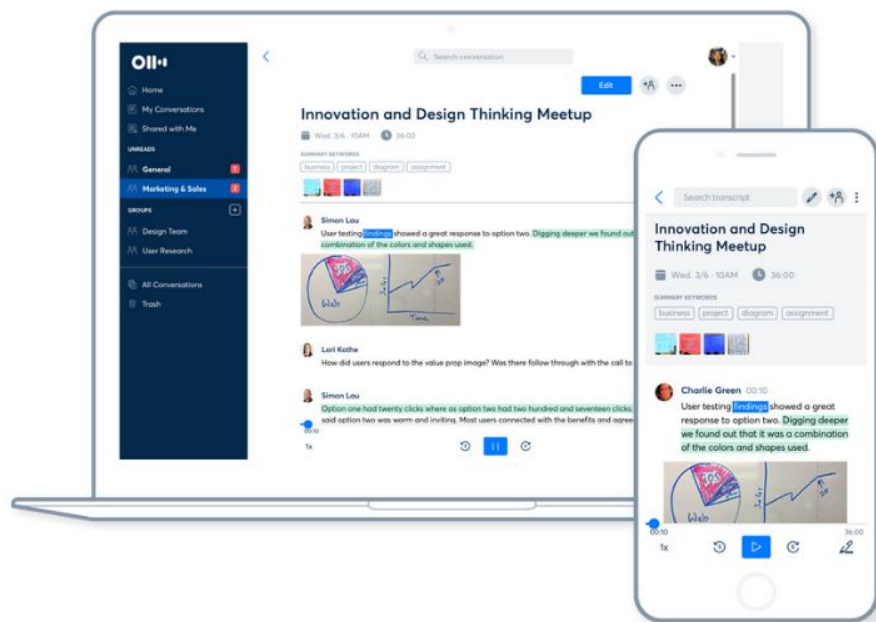
Generate 

Ad

Live Video Shopping App



Brought to you by [Streams.live](#)



Otter is where conversations live

Generate rich notes for meetings, interviews, lectures, and other important voice conversations with Otter, your AI-powered assistant.

[Get started](#)



Zoom for you

Zoom is for you. We're here to help you connect, communicate, and express your ideas so you can get more done together. We're proud to be trusted by millions of enterprises, small businesses, and individuals, just like you.

DEEPFAKE EXPLOSION

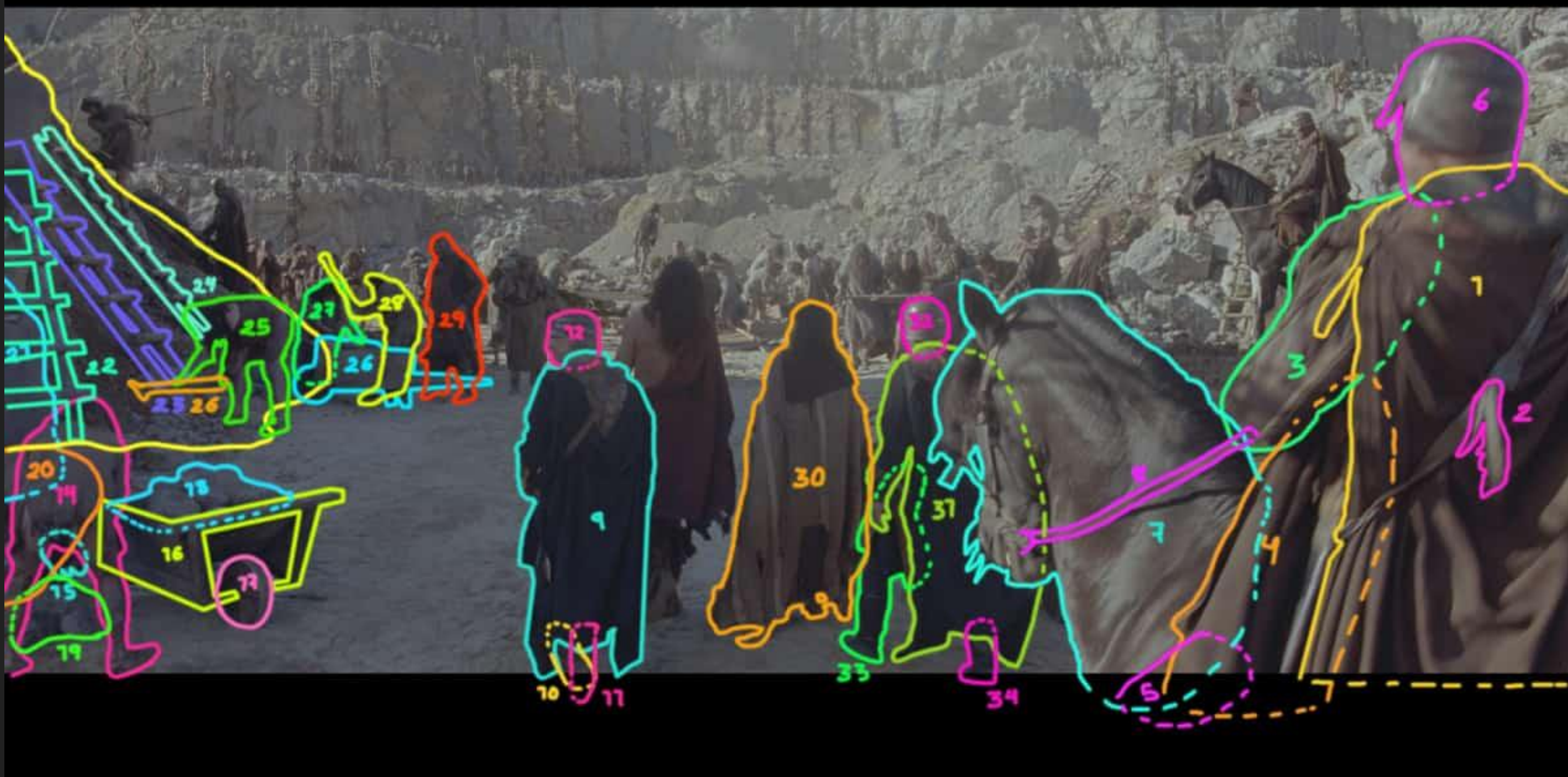
1. cheap to make
2. easy to find
3. scalable

HOLLYWOOD DEEPFAKES

2016

HOLLYWOOD DEEPFAKES

Adobe After Effects: Rotoscoping





2016

How Rogue One: A Star Wars Story Brought Back Princess Leia

Rogue One: A Star Wars Story famously brought back Princess Leia (Carrie Fisher) for a key scene. Here's how the CGI double was created.

BY PADRAIG COTTER

PUBLISHED FEB 25, 2019



Rogue One: A Star Wars Story brought back Princess Leia for a key ending scene - here's how this surprise cameo memorable scene was created. While ***Star Wars: The Force Awakens***

Hollywood CGI visual effects, 2017



2019

To create a Deepfake:

Amateur creators

Video: Open source code, basic coding skills

Gaming GPU (graphical gaming processor)

(~\$1500) or cloud compute (\$200)

Fake profile pictures: unlimited creation.

Professional creators

\$10,000 for a very well-crafted deepfake video

Few weeks work

To create a Deepfake:

AI Investment worldwide

Google: Google AI

Facebook: Facebook AI

Microsoft: Microsoft AI; Face++

Amazon: AWS Machine Learning

Apple: Machine Learning Research

Alibaba: Alibaba Cloud Intelligence Brain

Tencent: Tencent AI lab

Baidu: (four different initiatives)

Yitu, Sensetime, MegVii, Synthesia

Coarse styles
($4^2 - 8^2$)

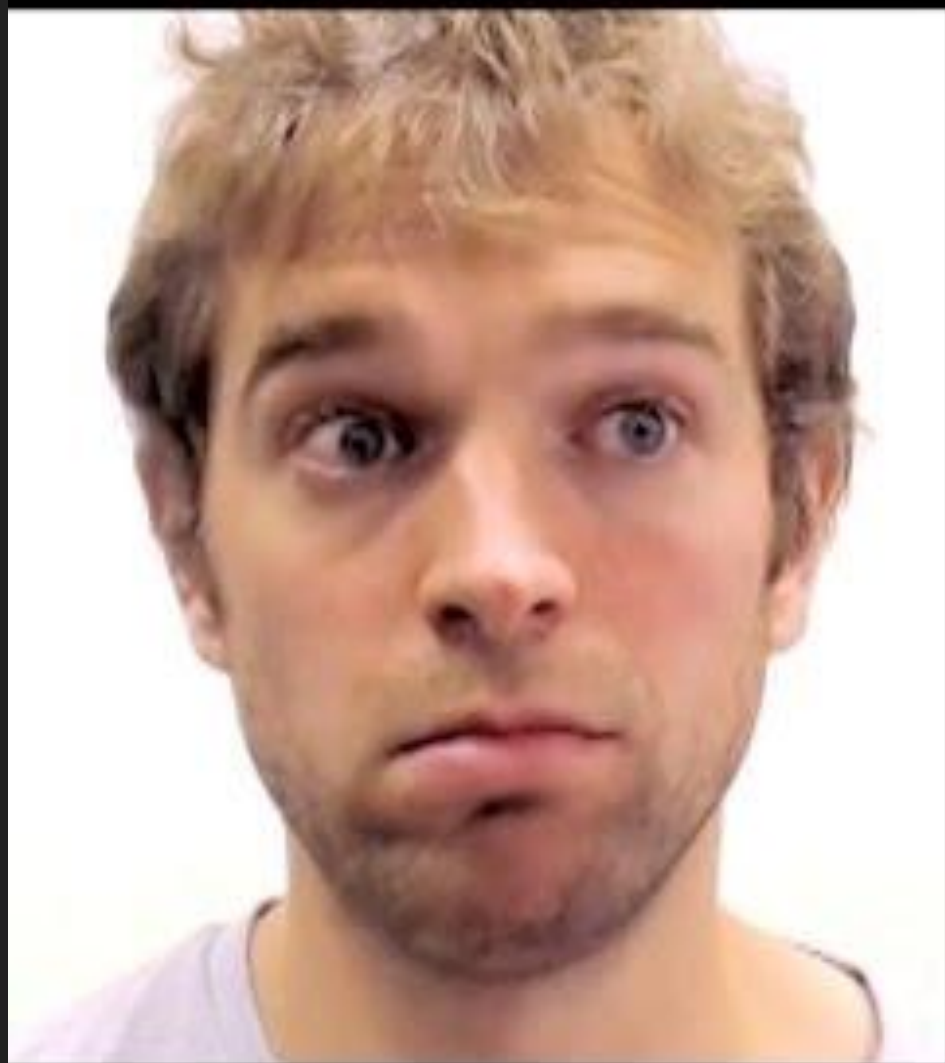


Middle styles
($16^2 - 32^2$)



Fine styles
($64^2 - 1024^2$)





How will deepfakes be used?

How will deepfakes be used?

PORN

How will deepfakes be used?

PORN

TALENT AGENCIES/GAMING/FILM

How will deepfakes be used?

PORN

TALENT AGENCIES/GAMING/FILM

EDUCATION

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NEWS DELIVERY

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NEWS DELIVERY

CONVERSATIONS WITH DECEASED

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NEWS DELIVERY

CONVERSATIONS WITH DECEASED

POLITICS

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NEWS DELIVERY

CONVERSATIONS WITH DECEASED

POLITICS

What sort of threats to we envision?

How will deepfakes be used?

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EDUCATION

NEWS DELIVERY

CONVERSATIONS WITH DECEASED

POLITICS

What sort of threats to we envision?

Extortion or coercion against women

How will deepfakes be used?

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What sort of threats to we envision?

**Extortion or coercion
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Espionage**

How will deepfakes be used?

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**Political manipulation and
deception**

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What sort of threats to we envision?

**Extortion or coercion
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Espionage

**Political manipulation and
deception**

International manipulation

How will deepfakes be used?

PORN

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What sort of threats to we envision?

Extortion or coercion

Espionage

Political manipulation and deception

International deception

Personal deception

How will deepfakes be used?

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POLITICS

What sort of threats to we envision?

Extortion or coercion

Espionage

Political manipulation and deception

International deception

Personal deception

The threat of a real video being fake

