MOBILE SOFTWARE ENGINEERING WS 2017/2018

Steffen Hess, Dominik Magin

© Fraunhofer IESE

Fraunhofer IESE

Timetable – Working Version

Date	Content
28.09.17	Introduction & Digitale Dörfer Project
05.10.17	**How to build the right apps - Innovation and Creativity**
12.10.17	Business Model and Product Philosophy
19.10.17	Mobile Requirements Engineering
26.10.17	Mobile Experience Design
02.11.17	Mobile Prototyping
09.11.17	Mobile Usability Testing and Product Philosophy Evaluation
16.11.17	Mobile Development Approaches
23.11.17	Mobile Architecture
30.11.17	Mobile Security
07.12.17	Mobile Quality Assurance
14.12.17	Synchronization Concepts
21.12.17	Sell your Product to the customer and 2nd Product Philosophy Evaluation
28.12.17	no lecture
04.01.17	no lecture
11.01.17	Exam Preparation & Real World Project
18.01.17	Final Presentation

© Fraunhofer IESE

Fraunhofer IESE

INNOVATION AND CREATIVITY

© Fraunhofer IESE

Fraunhofer IESE

Slides

- Lecture slides and information can be downloaded here
- https://oc.iese.de/index.php/s/SVZGhPW6bkzIUg1
- Passwort: MSO2017

© Fraunhofer IESE

Fraunhofer IESE

Lernziel

- Wie funktioniert Ideenfindung
- Kreativitätstechniken am Beispiel erlernen
- Die eigene Idee voranbringen
- Entwicklung eines Szenarios für die App im Digitalen Dorf

© Fraunhofer IESE

MANNHEIM
2017

WORKSHOP DIGITALES DORF „HS MANNHEIM"

05. OKTOBER, MANNHEIM

Team Blau

Team Orange

Team Grün

Team Lila

EINLAUF DER NATIONEN

ERÖFFNUNGSZEREMONIE

Was ist ein Lightning Talk?

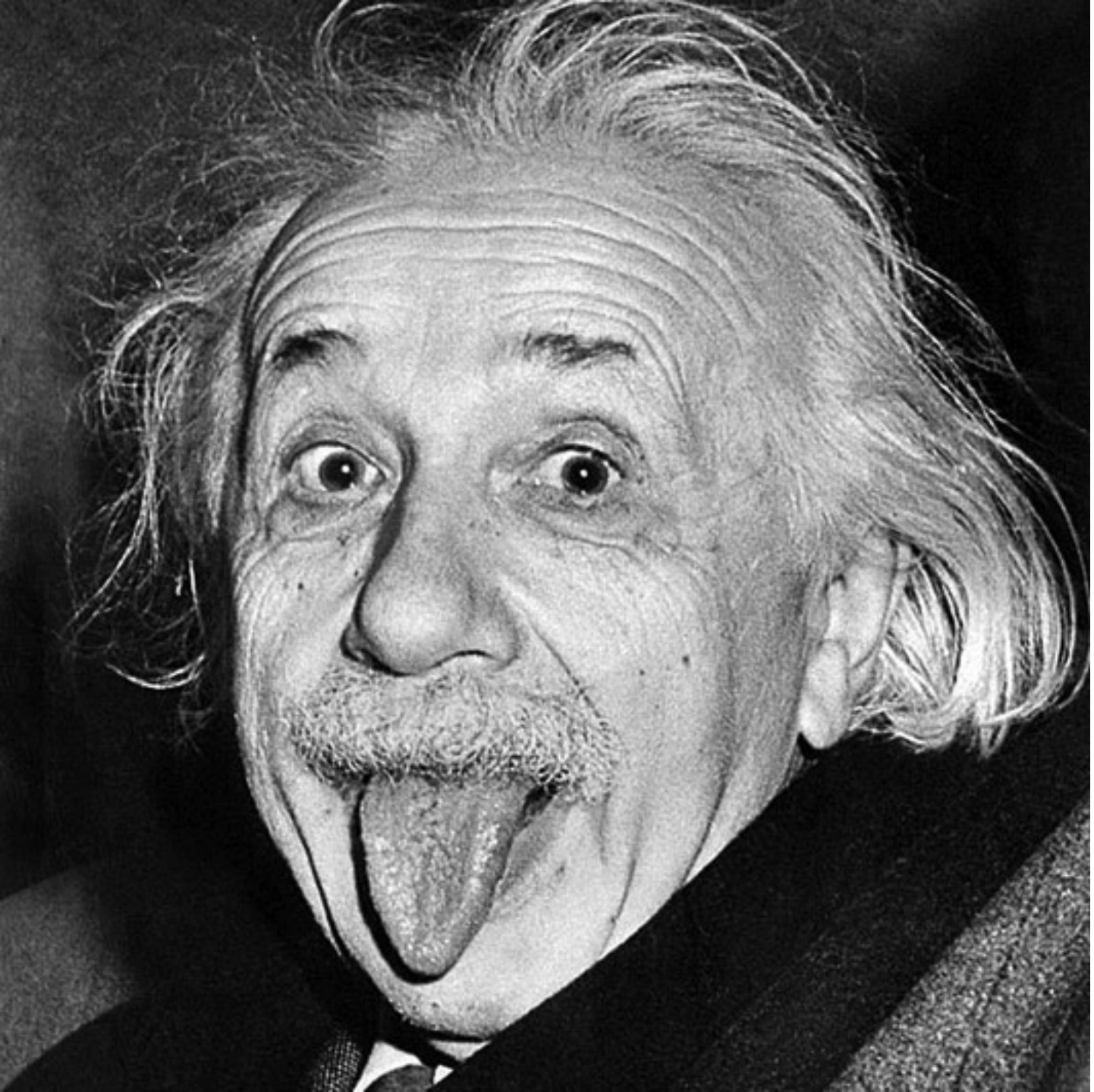
IDEAS MADE OF STEAL

©Dr. Marcus Trapp
Fraunhofer
IESE

Science

is Art

>



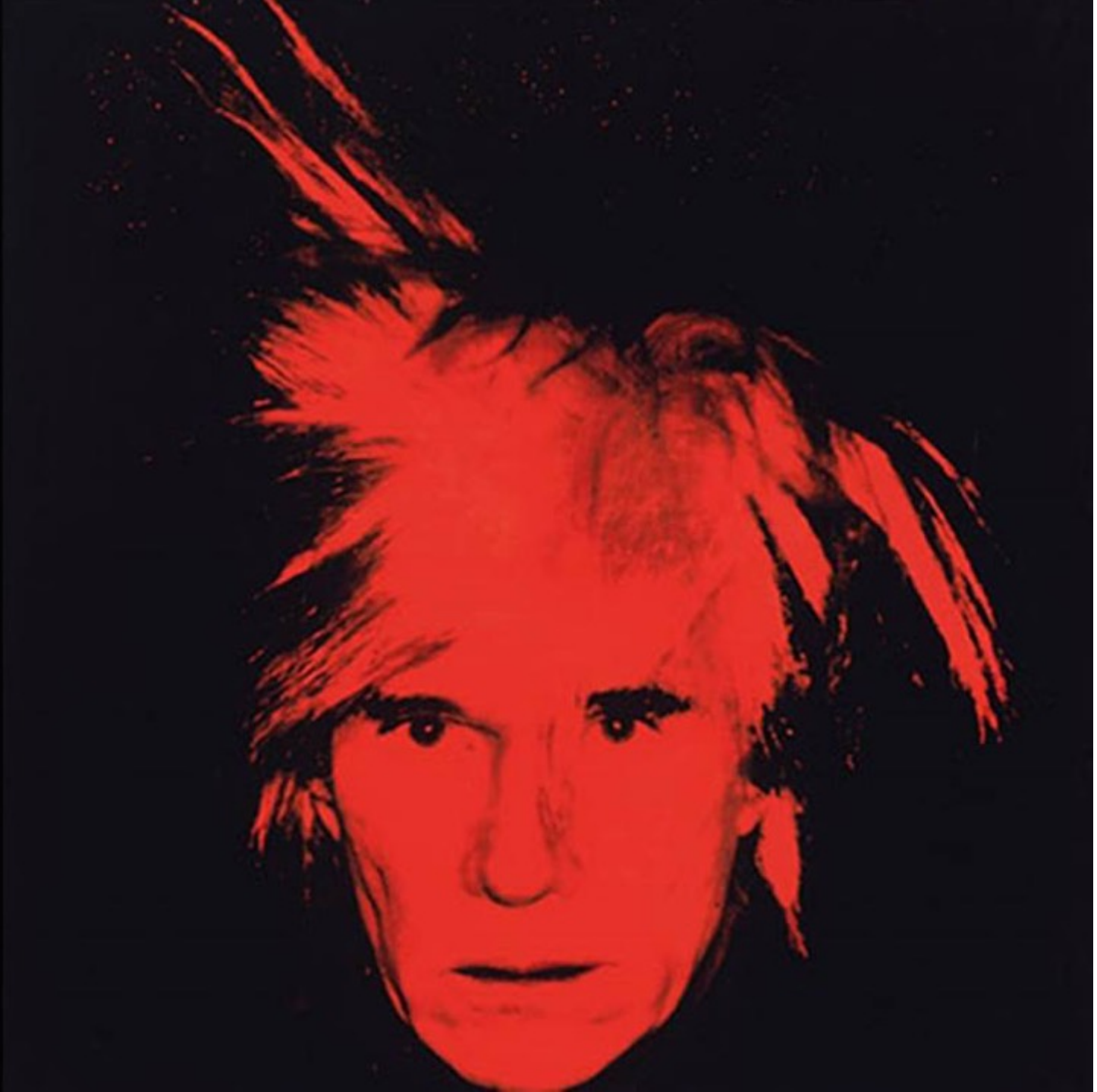
Albert Einstein

Photo by Arthur Sasse, 1951

Business

is Art

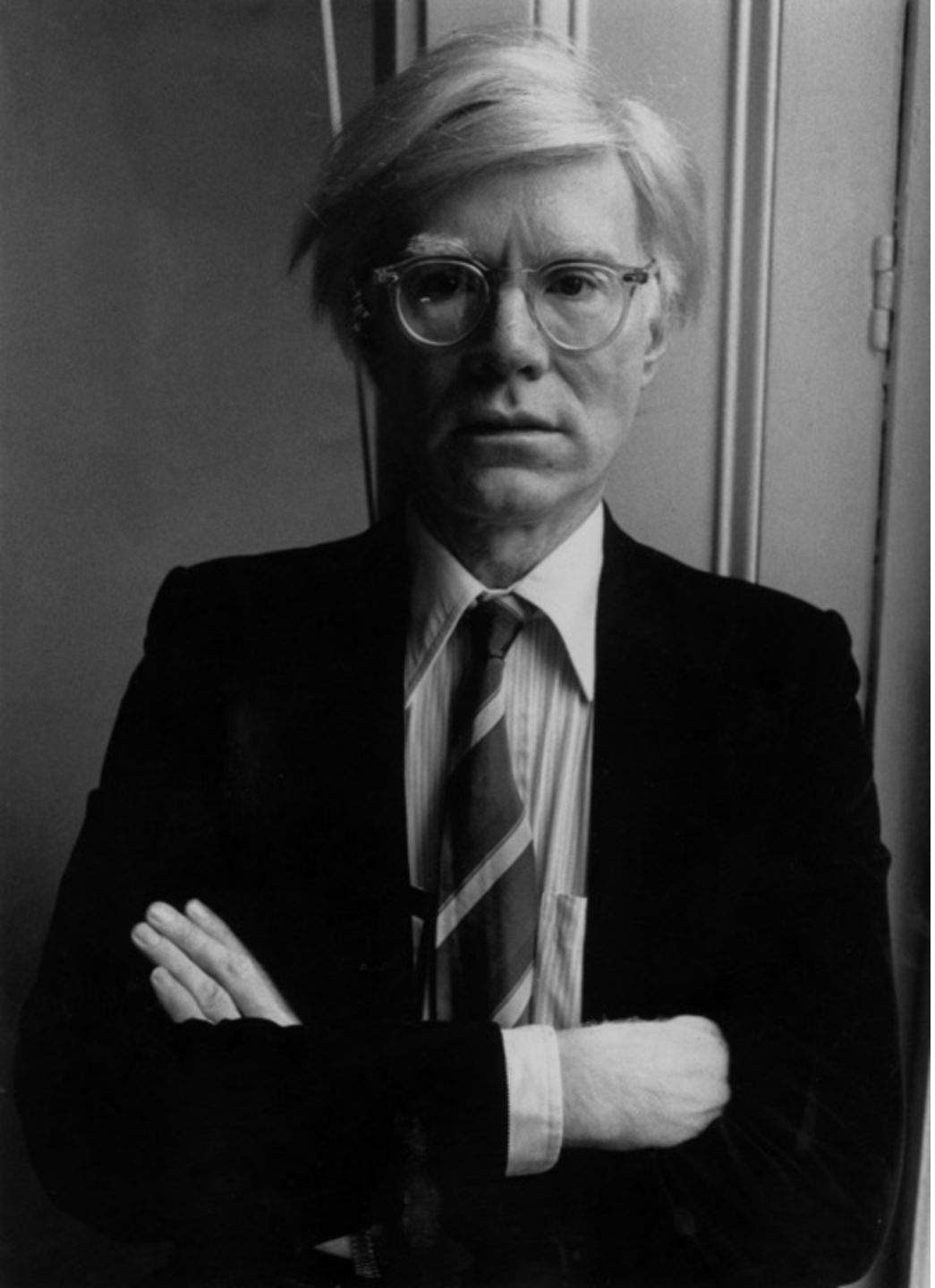
>



Andy Warhol

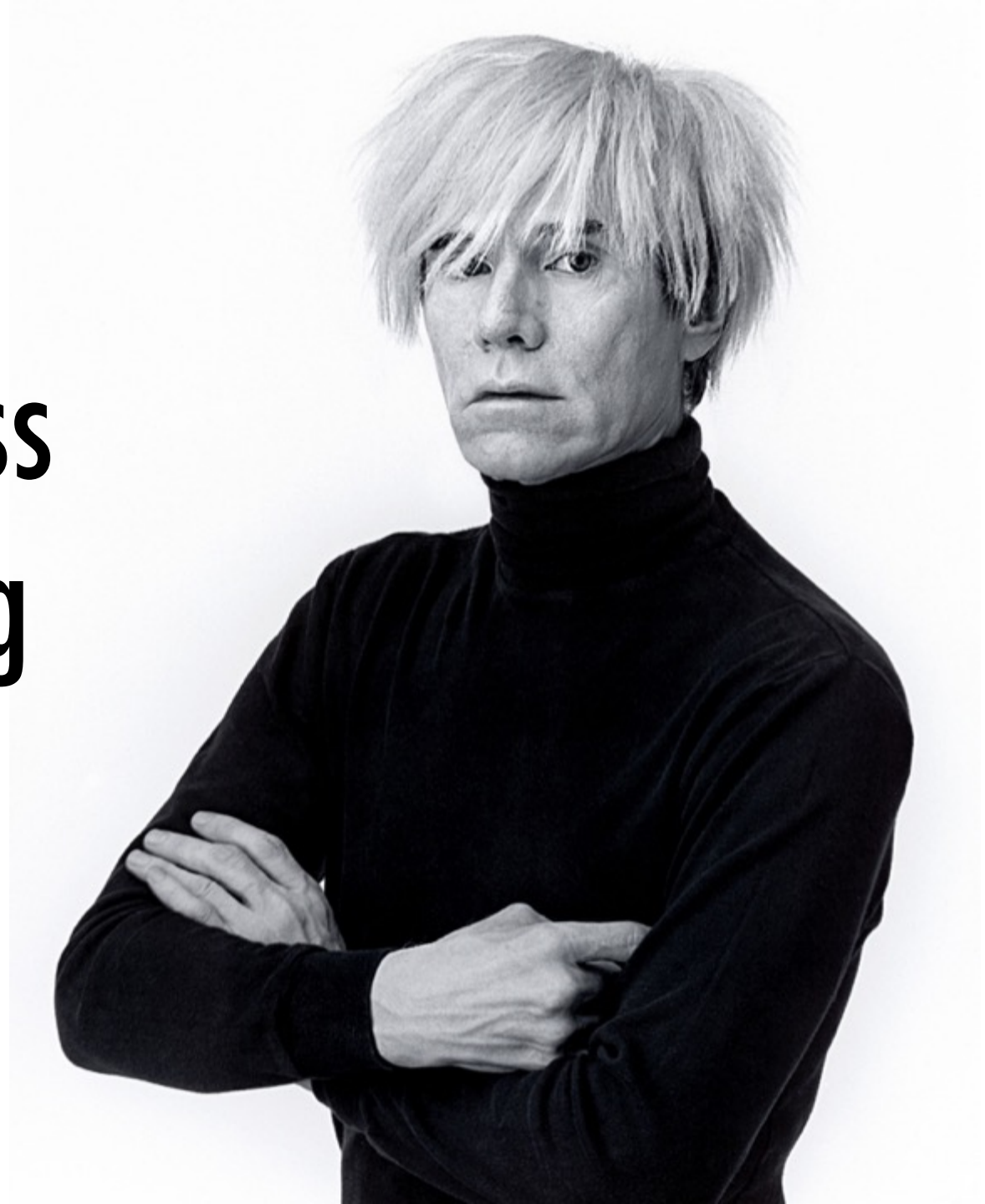
Photo by Andy Warhol, 1986

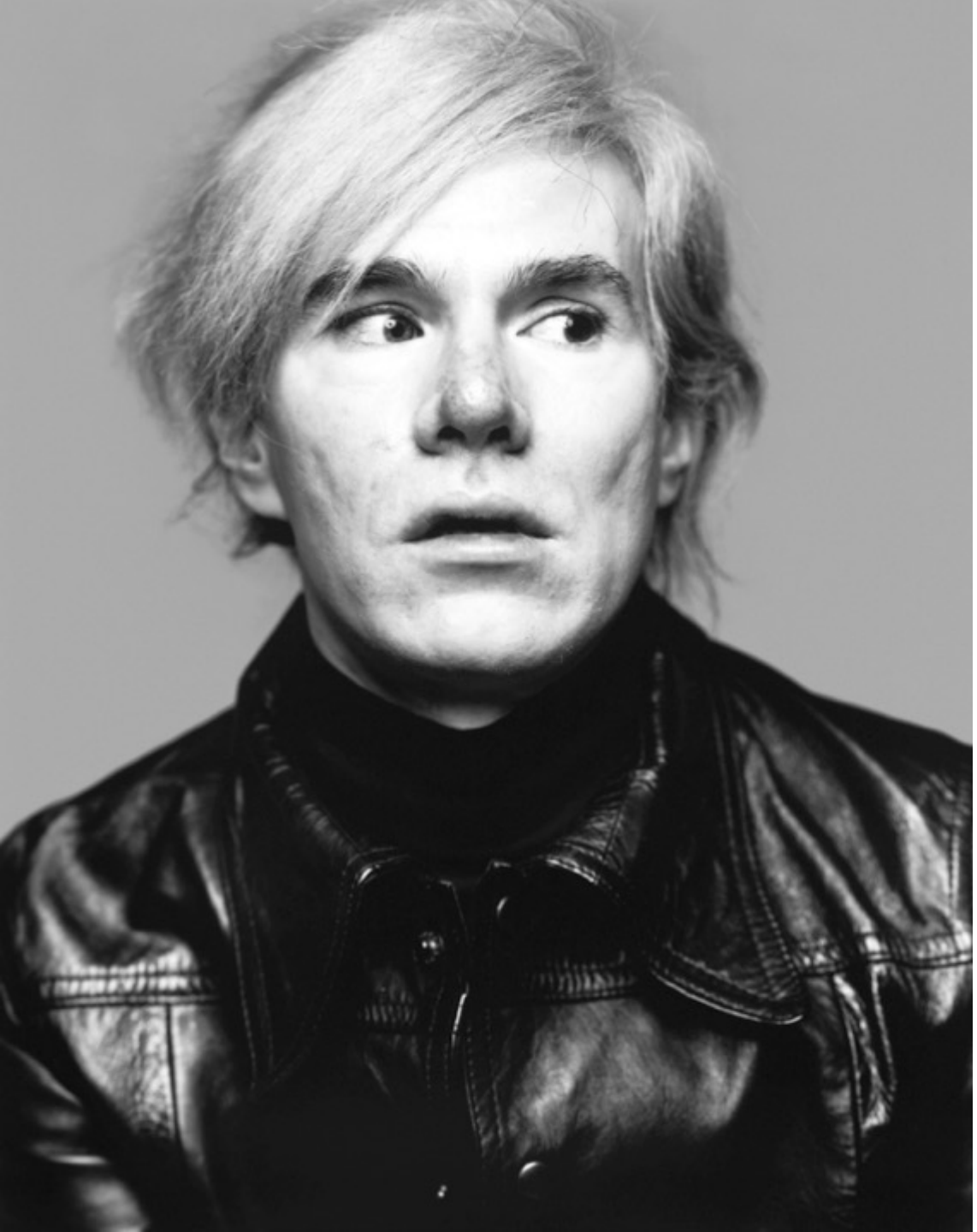
“The greatest scientists are always artists as well.”



“Being good in business is the most fascinating kind of art.”

“Being good in business is the most fascinating kind of art.”





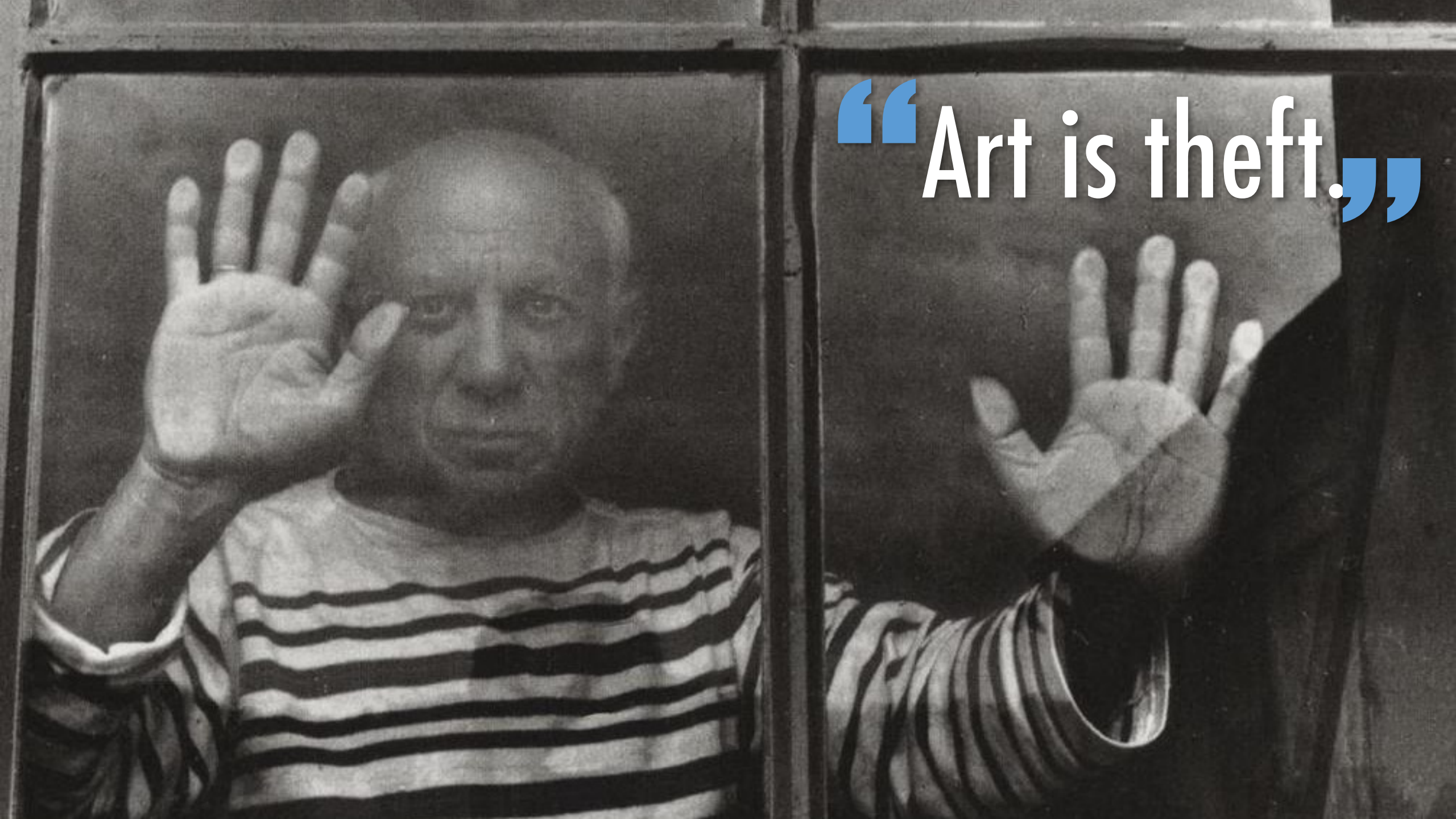
“Being good in business is the most fascinating kind of art.”

Art is Theft

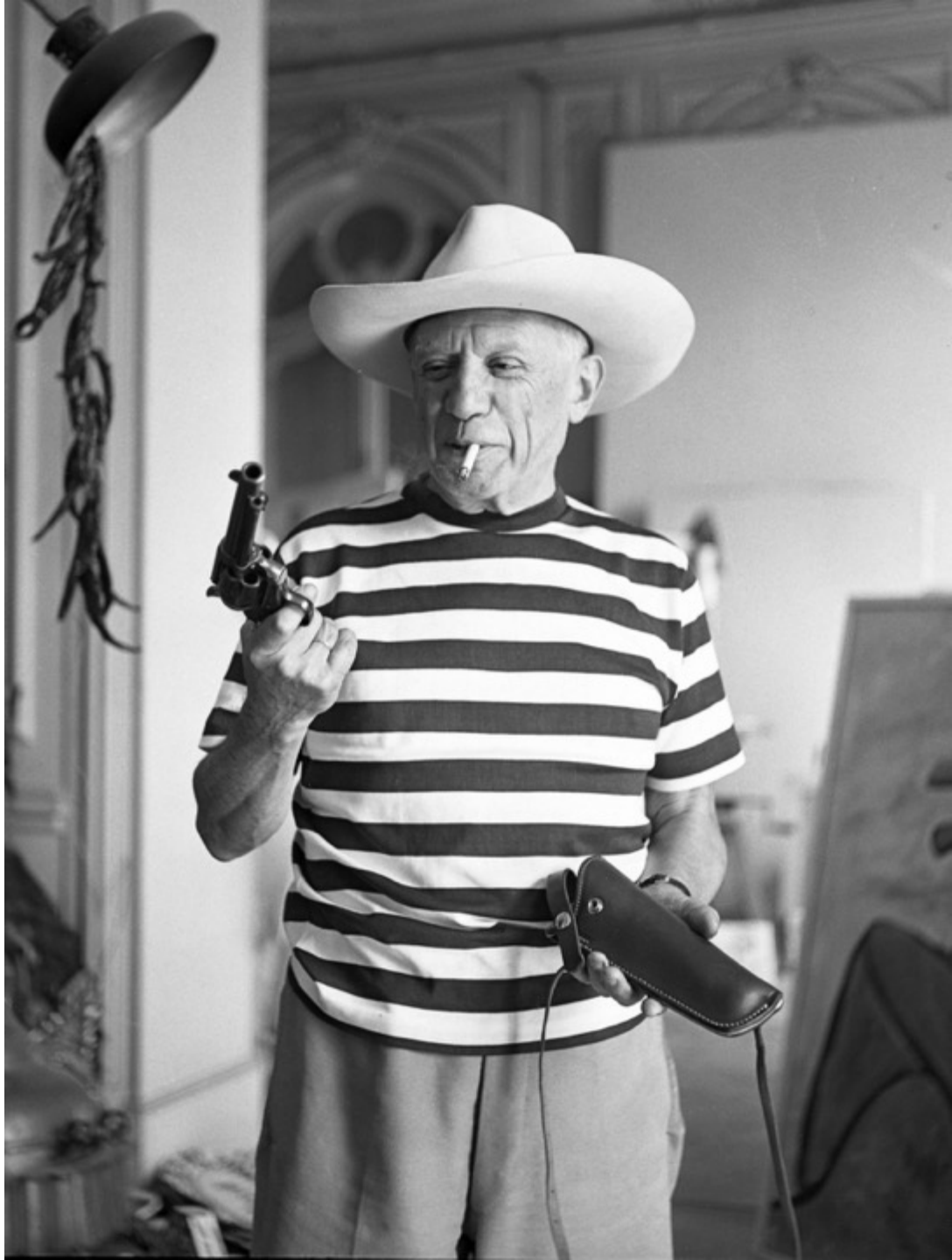
Pablo Picasso

Photo by Irving Penn, 1957

“Art is theft.”


“Art is theft.”

“Bad artists copy,
great artists steal.”



Frühstück im Grünen

>

Le Déjeuner sur l'herbe

Pablo Picasso, 05.03.1960

Le Déjeuner sur l'herbe

Édouard Manet, 1863

Le Déjeuner sur l'herbe

Édouard Manet, 1863

Le Déjeuner sur l'herbe

Pablo Picasso, 05.03.1960

Judgement of Paris

Marcantonio Raimondi, 1515/16
Copper engraving based on
a lost painting
by Raffael (1483-1520)

Judgement of Paris (Detail)

Marcantonio Raimondi, 1515/16
Copper engraving based on a lost painting by Raffael (1483-1520)

Judgement of Paris

Marcantonio Raimondi, 1515/16

Le Déjeuner sur l'herbe

Édouard Manet, 1863

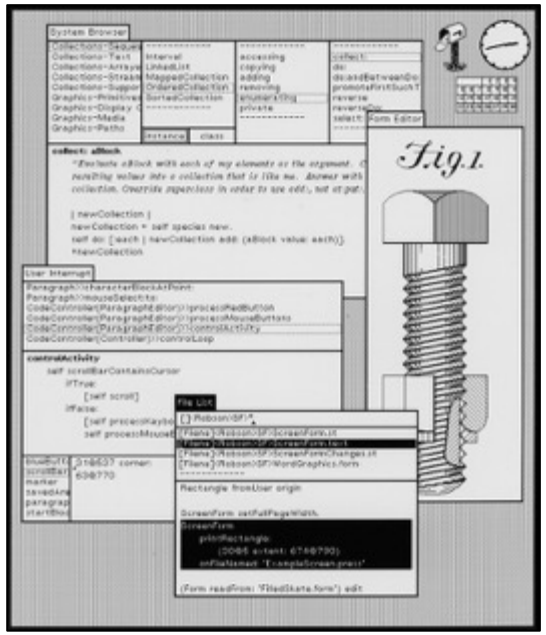
Le Déjeuner sur l'herbe

Pablo Picasso, 05.03.1960

Xerox

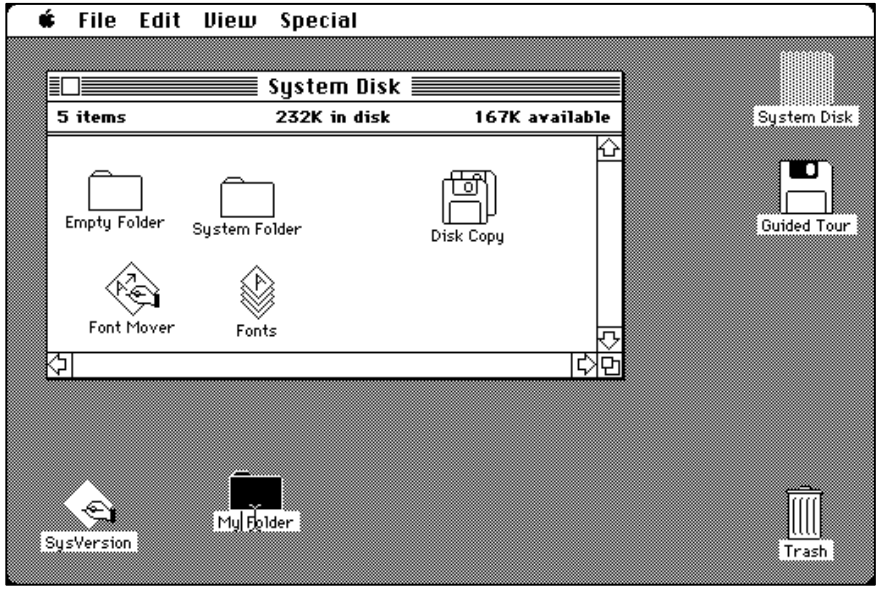
Macintosh

Windows



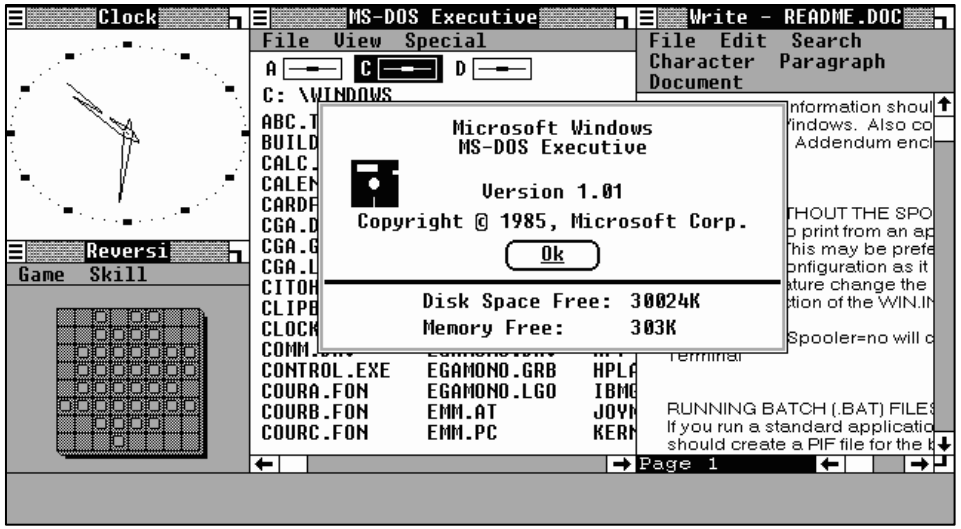
XEROX Alto GUI

XEROX PARC, 1973



Macintosh OS1

Apple Computer, 1984



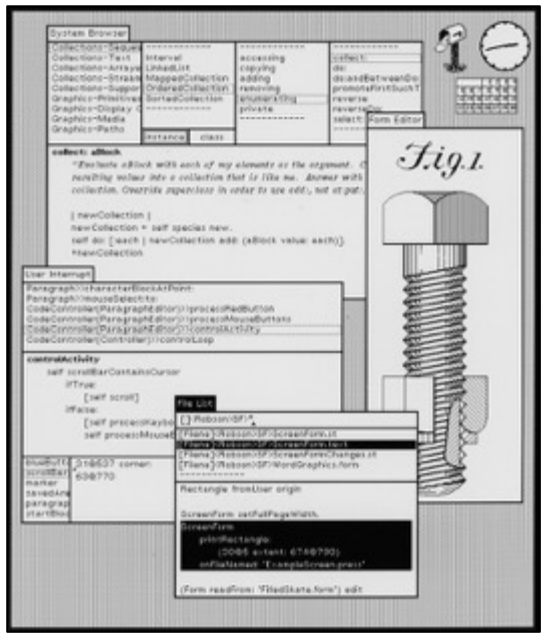
Windows 1

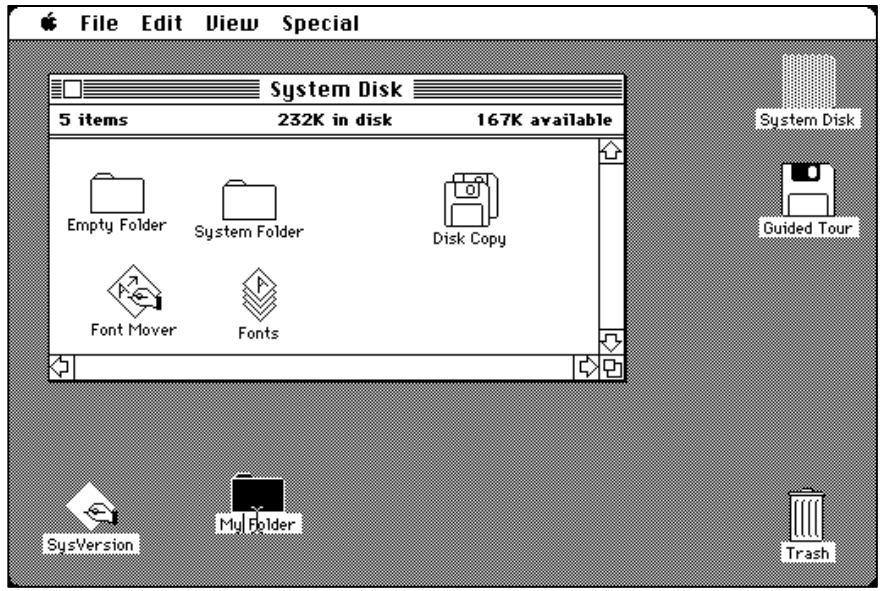
Microsoft, 1985

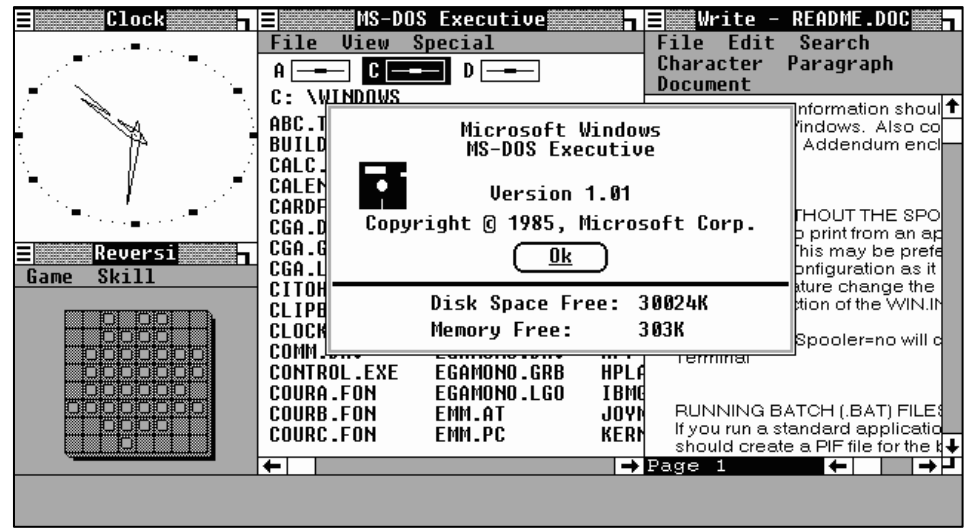
XEROX PARC

Apple

Microsoft







1973

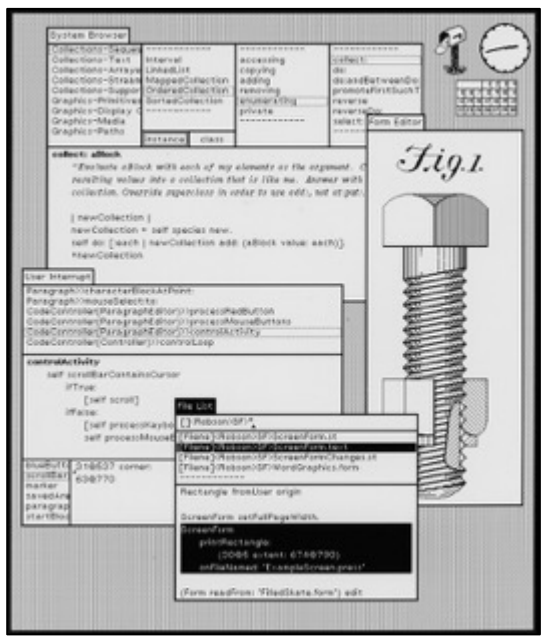
1984

1985

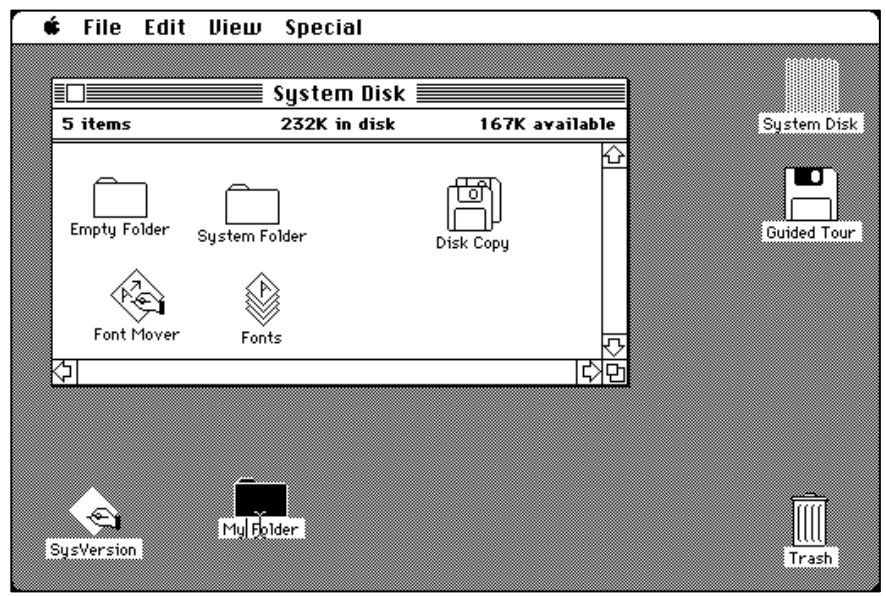
1516

1863

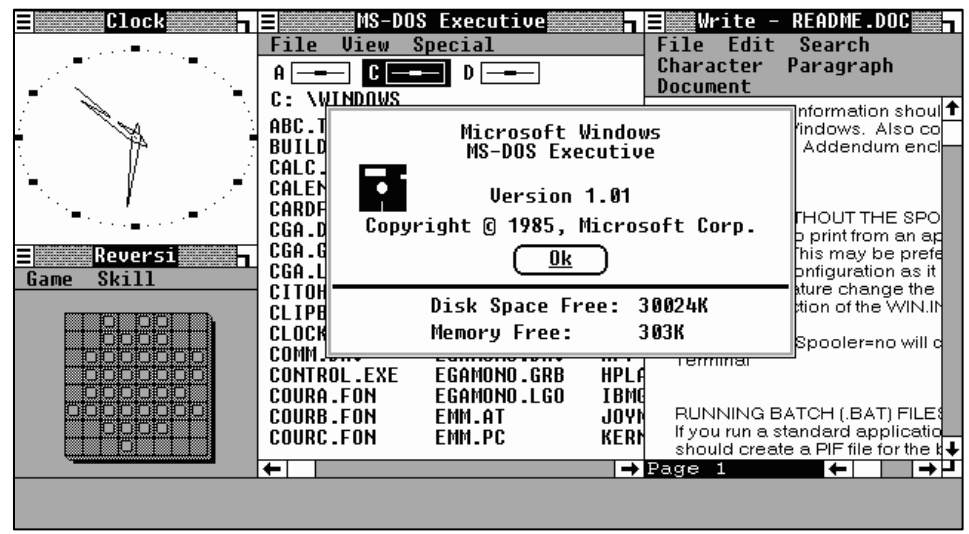
1960



1973



1984

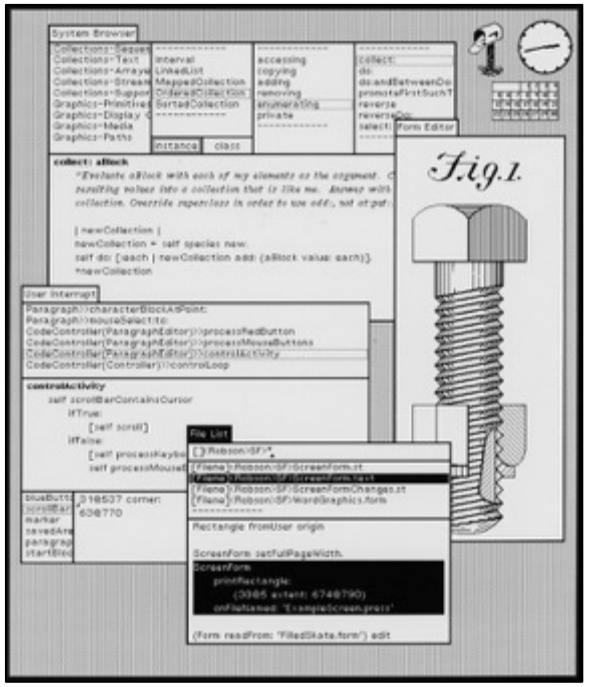


1985

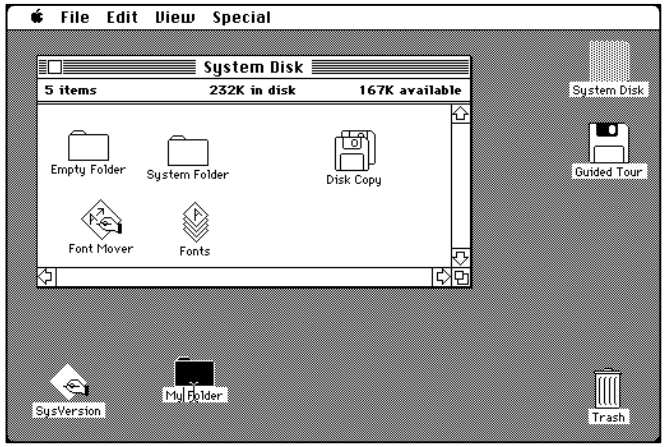
1516

1863

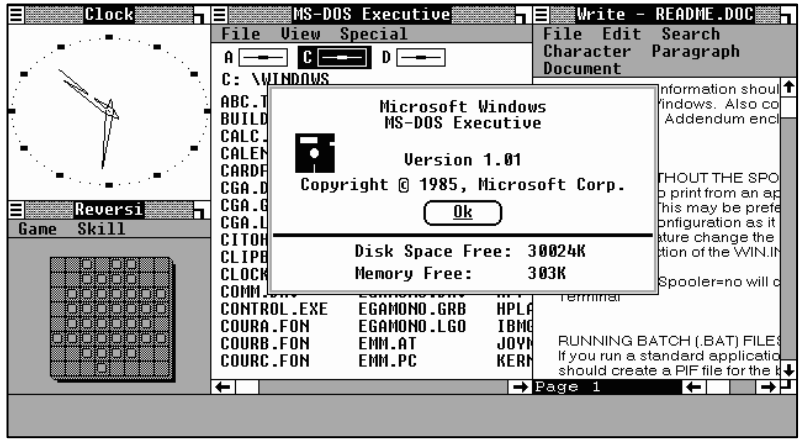
1960



1973



1984



1985

Everything is a Remix

Kirby Ferguson

www.kirbyferguson.com

Kirby Ferguson

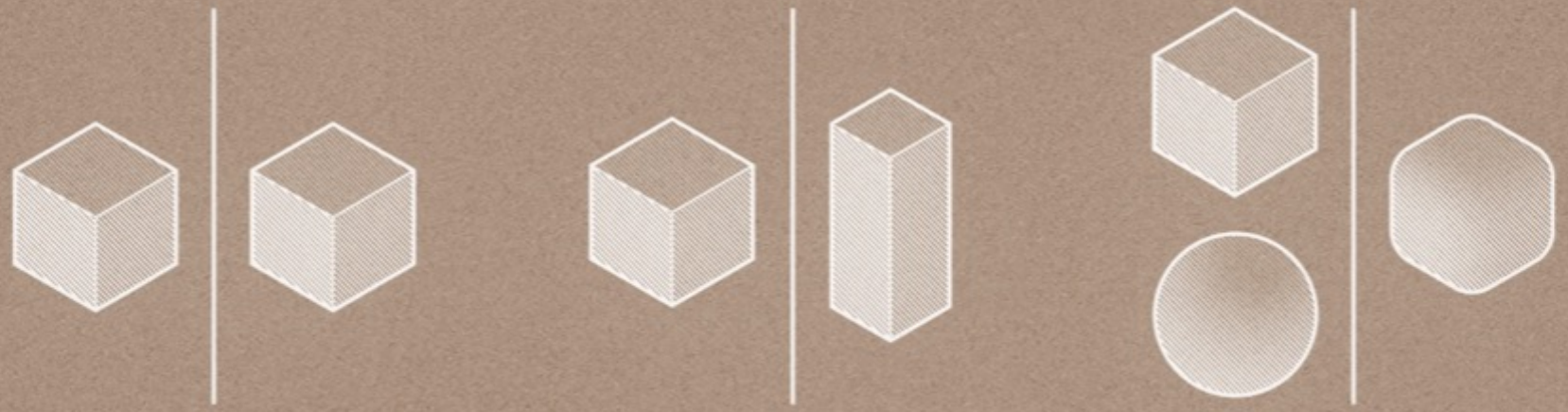
www.kirbyferguson.com

Everything is a Remix

Everything is a Remix

Remastered

THE BASIC ELEMENTS OF CREATIVITY



COPY TRANSFORM COMBINE

Transform

>

Das Urteil des Paris

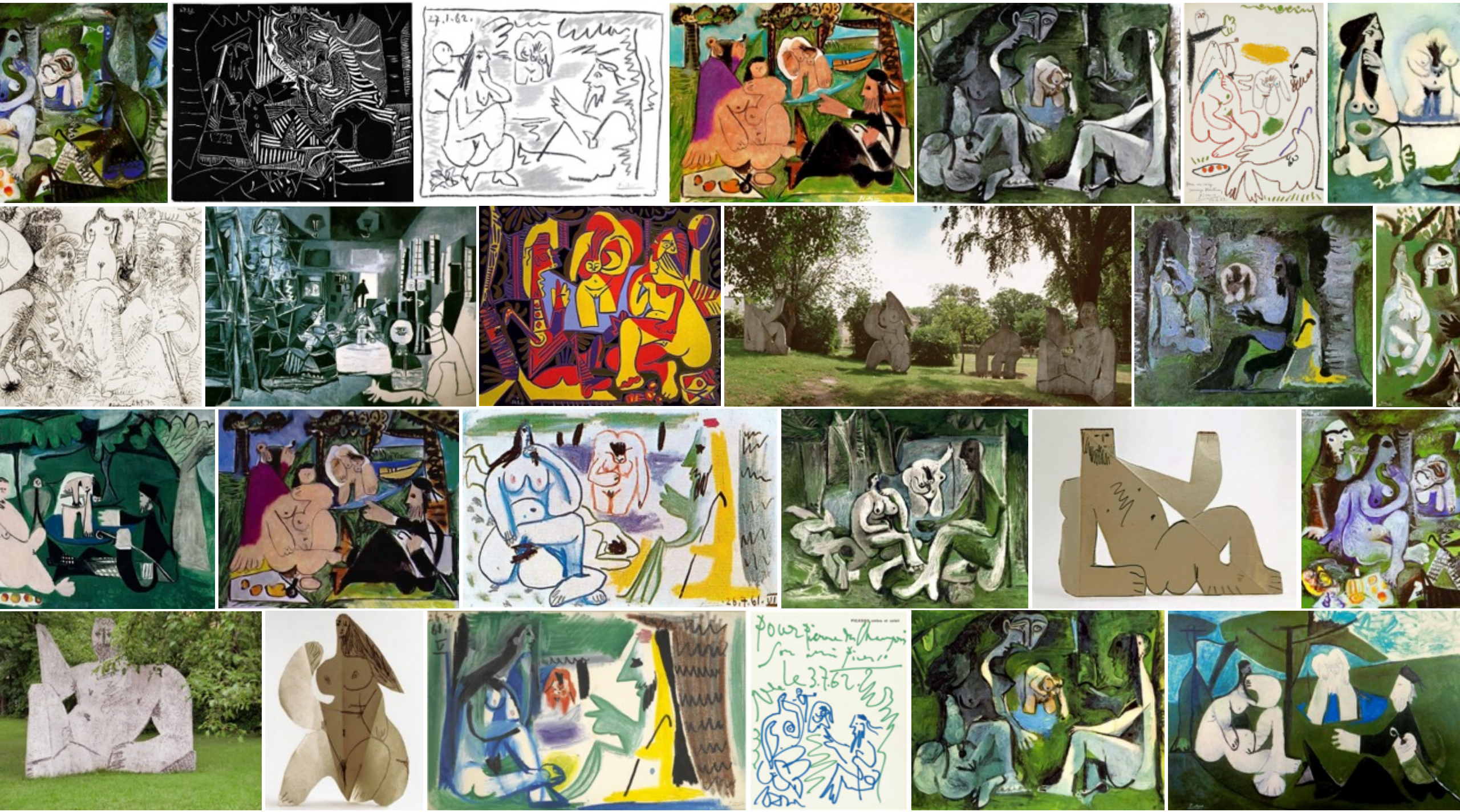
Marcantonio Raimondi, 1515/16

Le Déjeuner sur l’herbe

Édouard Manet, 1863

Le Déjeuner sur l’herbe

Pablo Picasso, 05.03.1960


27.1.62.
26.7.61.
Pour Jeanne Mathieu
son ami Picasso
le 3.7.62.

Salvador Dalí

Photo by Philippe Halsman, 1954

“Those who do not want to imitate anything, produce nothing.”

“Those who do not want to imitate anything, produce nothing.”

SALVADOR DALÍ

“Only those with no memory insist on their originality”

Braun vs. Apple

>

Jonathan Ive

Senior Vice President of Design
Apple

Dieter Rams

Chief Design Officer
Braun

Dieter Rams

Leiter der Formgebung
Braun

Dieter Rams

Chief Design Officer
Braun

Jonathan Ive

Senior Vice President of Design
Apple

Dieter Rams

Chief Design Officer
Braun

Jonathan Ive

Senior Vice President of Design
Apple

Getty Images/Michael Kovac

T3 Pocket Radio

Braun, 1958

iPod

Apple, 2001

LE1 Speaker

Braun, 1959

iMac

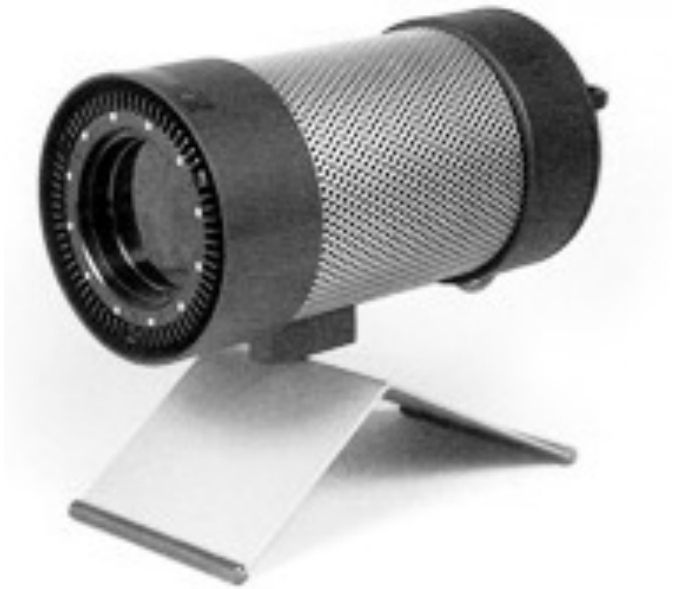
Apple, 2007

TV 3

Braun, 1981

iMac

Apple, 2004

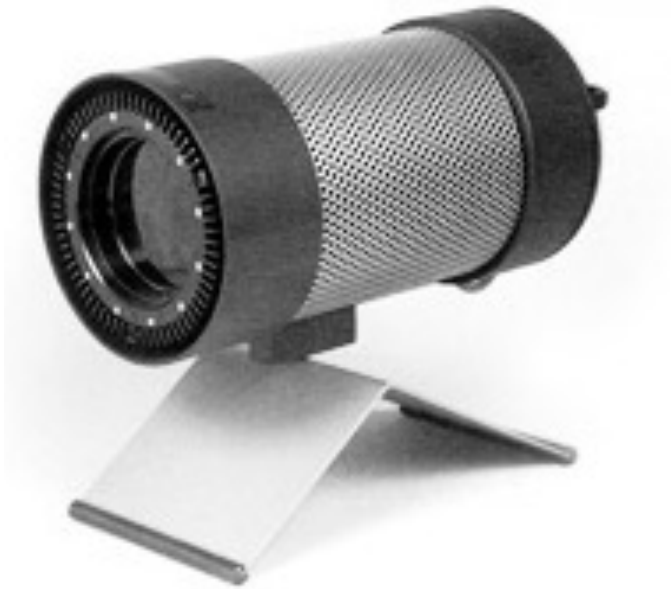


Hypertermie-Strahler

Braun, 1988

iSight Camera

Apple, 2003



Hyperthermia Radiator

Braun, 1988

iSight Camera

Apple, 2003

T1000 Radio

Braun, 1967

Power Mac G5

Apple, 2003

T1000 Radio

Braun, 1967

Power Mac G5

Apple, 2003

T1000 Radio

Braun, 1967

Power Mac G5

Apple, 2003

T1000 Radio

Braun, 1967

Power Mac G5

Apple, 2003

T1000 Radio

Braun, 1967

Power Mac G5

Apple, 2003

4776-M

Braun, 1987

iPhone

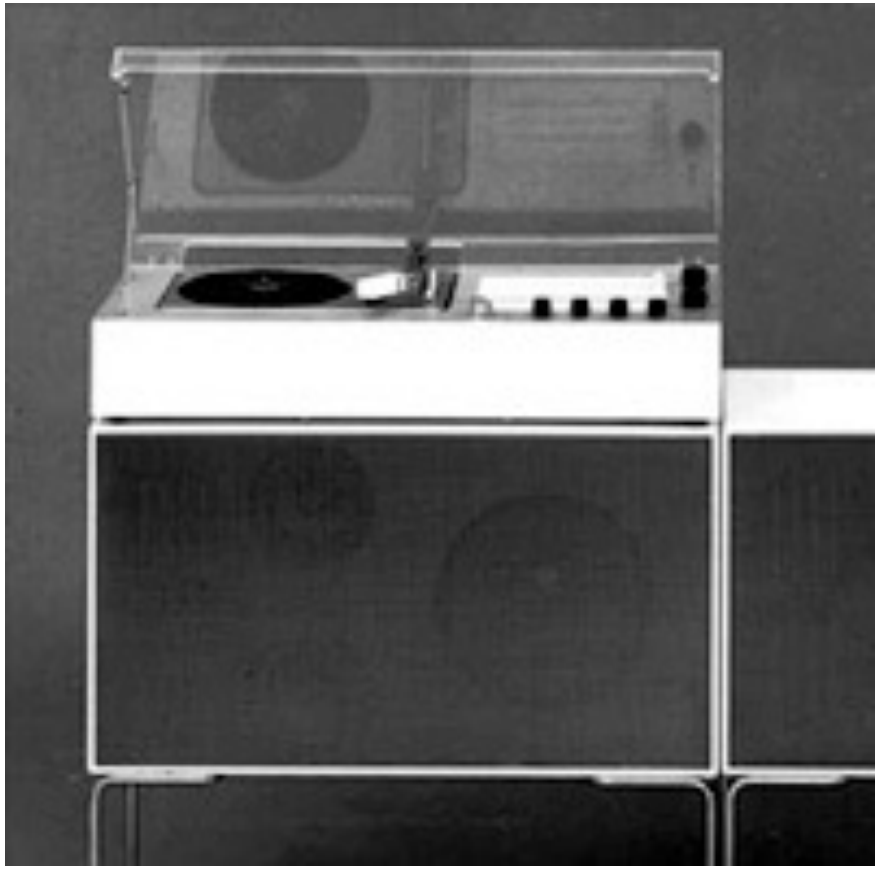
Apple, 2007

4776-M

Braun, 1987

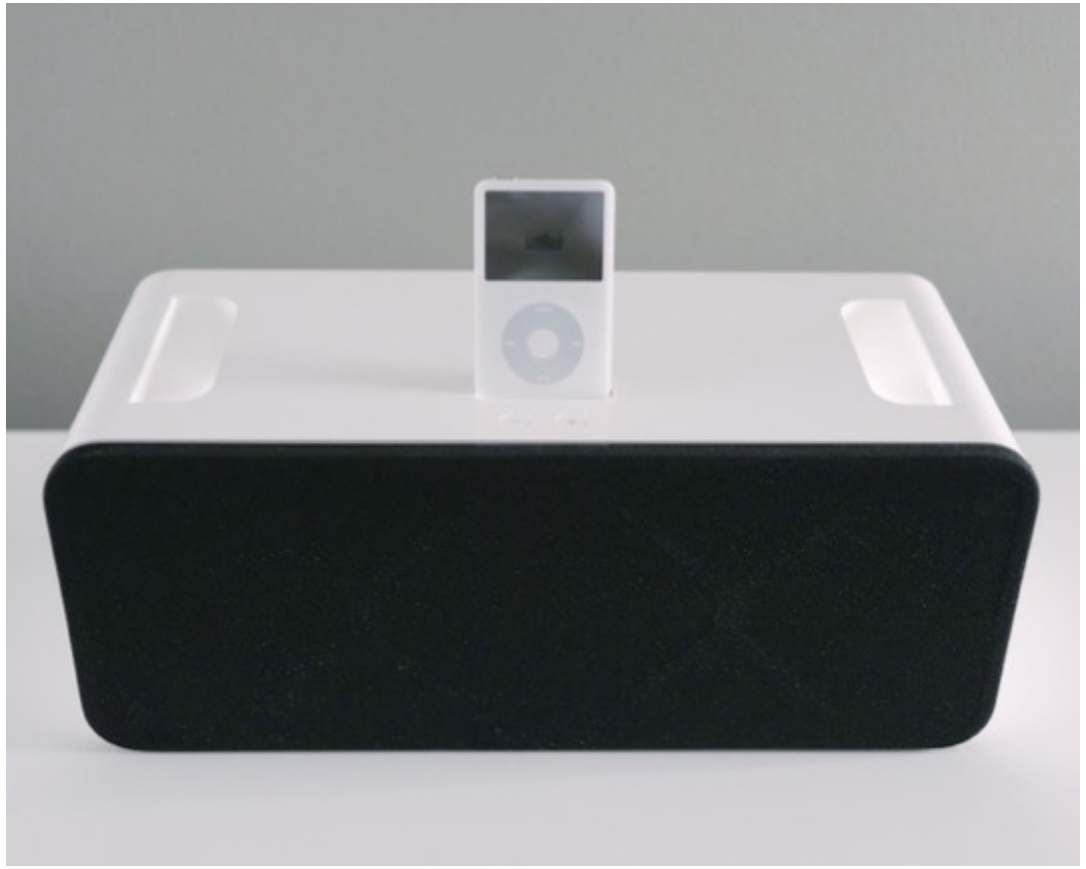
iPhone

Apple, 2007



L60 Sound System

Braun, 1962



iPod HiFi

Apple, 2006

T3 Pocket Radio

Braun, 1958

iPod

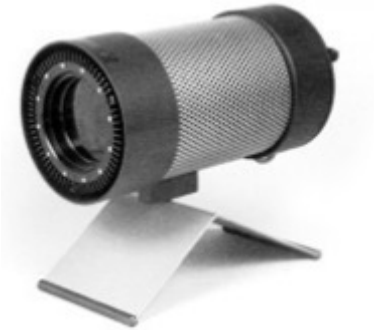
Apple, 2001

T1000 Radio

Braun, 1967

Power Mac G5

Apple, 2003



Hypertermie-Strahler

Braun, 1988

iSight Camera

Apple, 2003

LE1 Speaker

Braun, 1959

iMac

Apple, 2007

T1000 Radio

Braun, 1967

Power Mac G5

Apple, 2003

TV 3

Braun, 1981

iMac

Apple, 2004

4776-M

Braun, 1987

iPhone

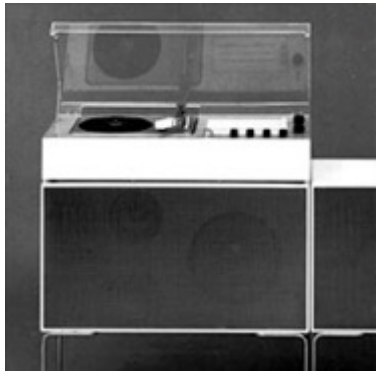
Apple, 2007

T1000 Radio

Braun, 1967

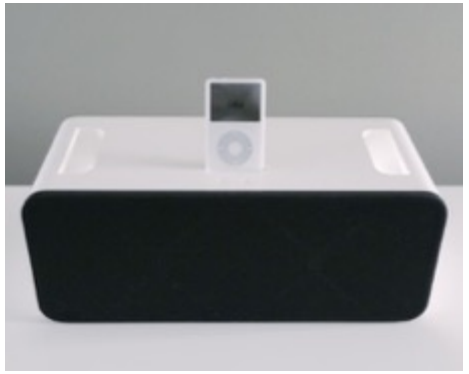
Power Mac G5

Apple, 2003



L60 Sound System

Braun, 1967



iPod HiFi

Apple, 2006

BN106 Digital Watch

Braun, 2012

Apple Watch

Apple, 2015

BN106 Digital Watch

Braun, 2012

Apple Watch

Apple, 2015

BN0021 Watch

Braun, 2009

Apple Watch

Apple, 2015

“We have always been shameless about stealing great ideas.”

T3 Pocket Radio

Braun, 1958

iPod

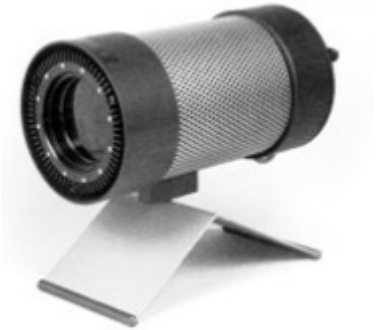
Apple, 2001

T1000 Radio

Braun, 1967

Power Mac G5

Apple, 2003



Hypertermie-Strahler

Braun, 1988

iSight Camera

Apple, 2003

LE1 Speaker

Braun, 1959

iMac

Apple, 2007

T1000 Radio

Braun, 1967

Power Mac G5

Apple, 2003

TV 3

Braun, 1981

iMac

Apple, 2004

BN106 Digital Watch Apple Watch

Braun, 2009

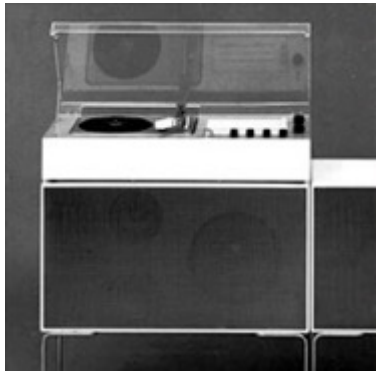
Apple, 2015

T1000 Radio

Braun, 1967

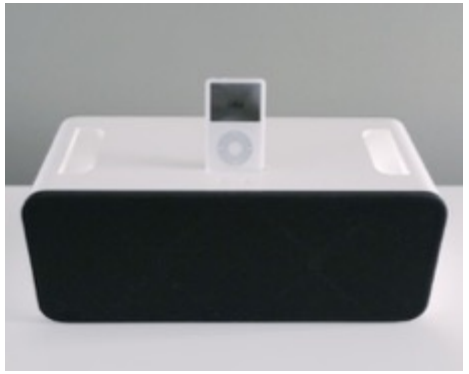
Power Mac G5

Apple, 2003



L60 Sound System

Braun, 1967



iPod HiFi

Apple, 2006

Copies

Clones

Rip-Off >

HOME
1:57 PM
Passbook is the simplest way to get all your passes in one place.
Boarding Passes
Just scan your pass at the gate and go.
Tickets
For movies, events and much more.
Store Cards
Customer and loyalty cards for stores and services.
Coupons
Discounts and offers on just about anything.
App Store
HOME
1:57 PM
Passbook 是集中管理所有凭证最简便的方式。
登机牌
票
商店卡
优惠券
App Store

Concorde

F & GBR, 1962-1979

Tupolev Tu-144

USSR, 1965-1981

Concorde

F & GBR, 1962-1979

Tupolev Tu-144

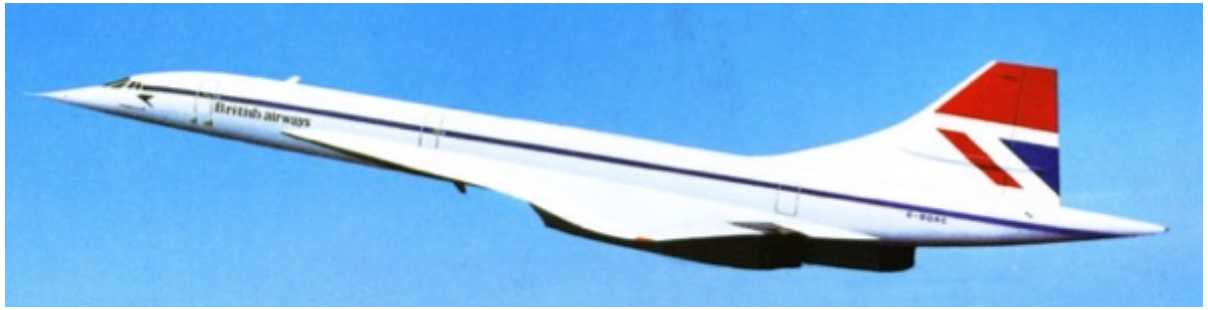
USSR, 1965-1981

Concorde

F & GBR, 1962-1979

Tupolev Tu-144

USSR, 1965-1981

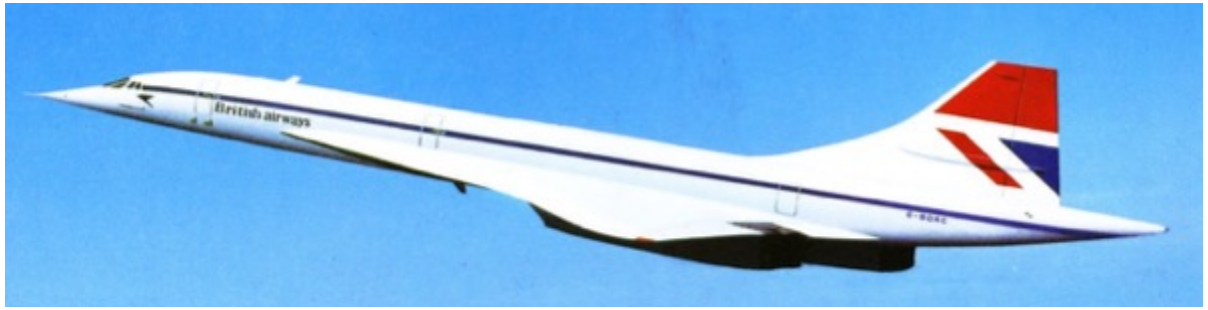


Concorde

F & GBR, 1962-1979

Tupolev Tu-144

USSR, 1965-1981



Concorde

F & GBR, 1962-1979

Konkordski

USSR, 1965-1981

AIR FRANCE
CCCP-77112
RESTAURANT CONCORDE
RESTAURANT CONCORDE

Space Shuttle

USA, 1981

Buran

USSR, 1986

Space Shuttle

USA, 1981

Buran

USSR, 1986

Space Shuttle

USA, 1981

Buran

USSR, 1986

Space Shuttle

USA, 1981

Buran

USSR, 1986

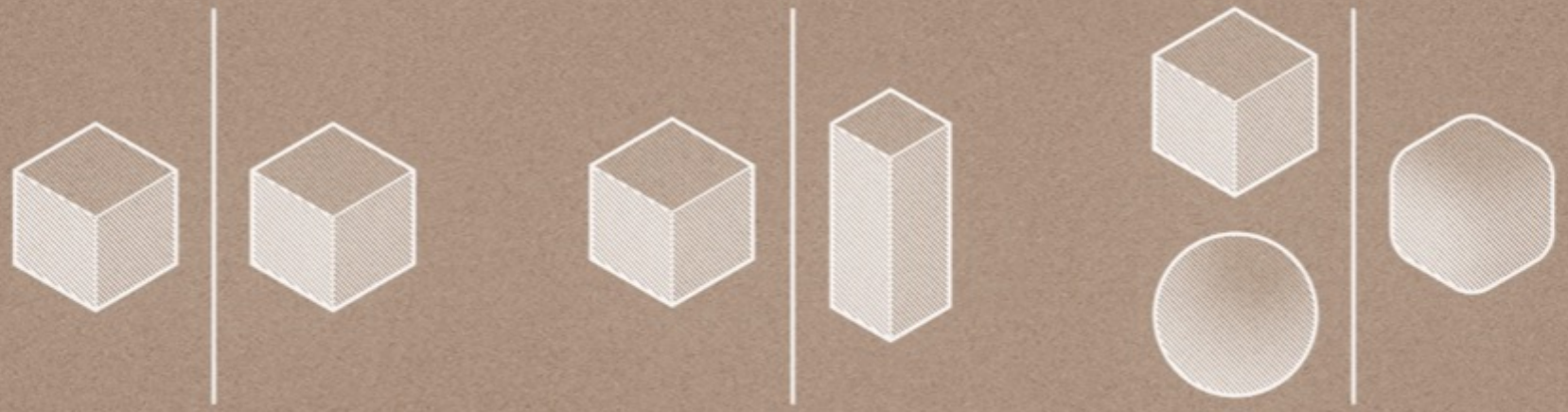
Space Shuttle

USA, 1981

Buran

USSR, 1986

THE BASIC ELEMENTS OF CREATIVITY



COPY TRANSFORM COMBINE

Combine

>

"I invented nothing new. I simply assembled the discoveries of other men behind whom were centuries of work."

More Picasso Copies

>

Le Déjeuner sur l'herbe

Édouard Manet, 1863

Le Déjeuner sur l'herbe

Pablo Picasso, 05.03.1960

Las Meninas

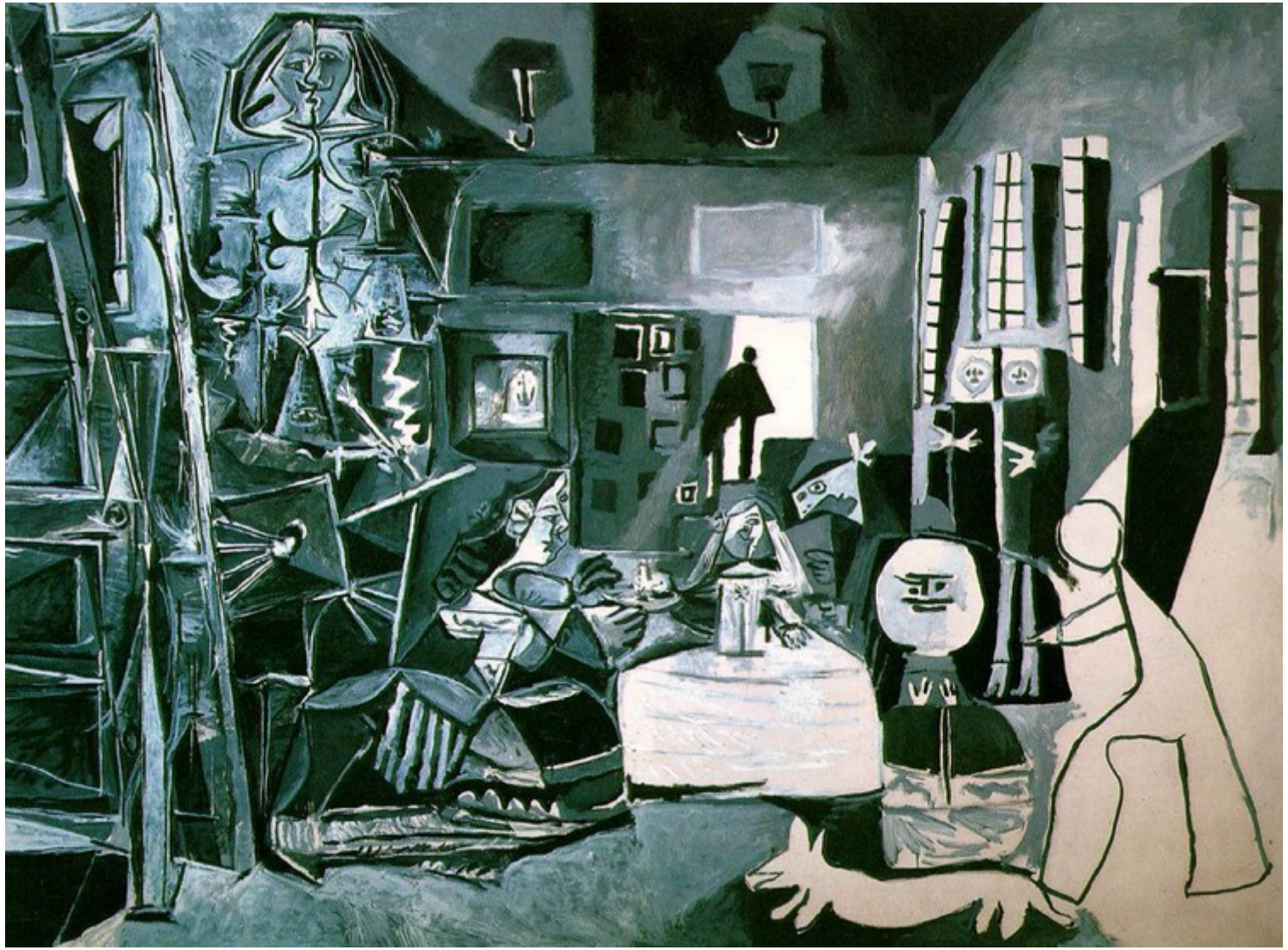
Diego Velázquez, 1656

Las Meninas

Pablo Picasso, 1957

Las Meninas

Diego Velázquez, 1656



Las Meninas

Pablo Picasso, 1957

Les Femmes d'Alger

Eugène Delacroix, 1834

Les Femmes d'Alger

Pablo Picasso, 1954

Les Femmes d'Alger

Eugène Delacroix, 1834

Les Femmes d'Alger

Pablo Picasso, 1954

Das Urteil des Paris

Marcantonio Raimondi, 1515/16

Le Déjeuner sur l’herbe

Édouard Manet, 1863

Le Déjeuner sur l’herbe

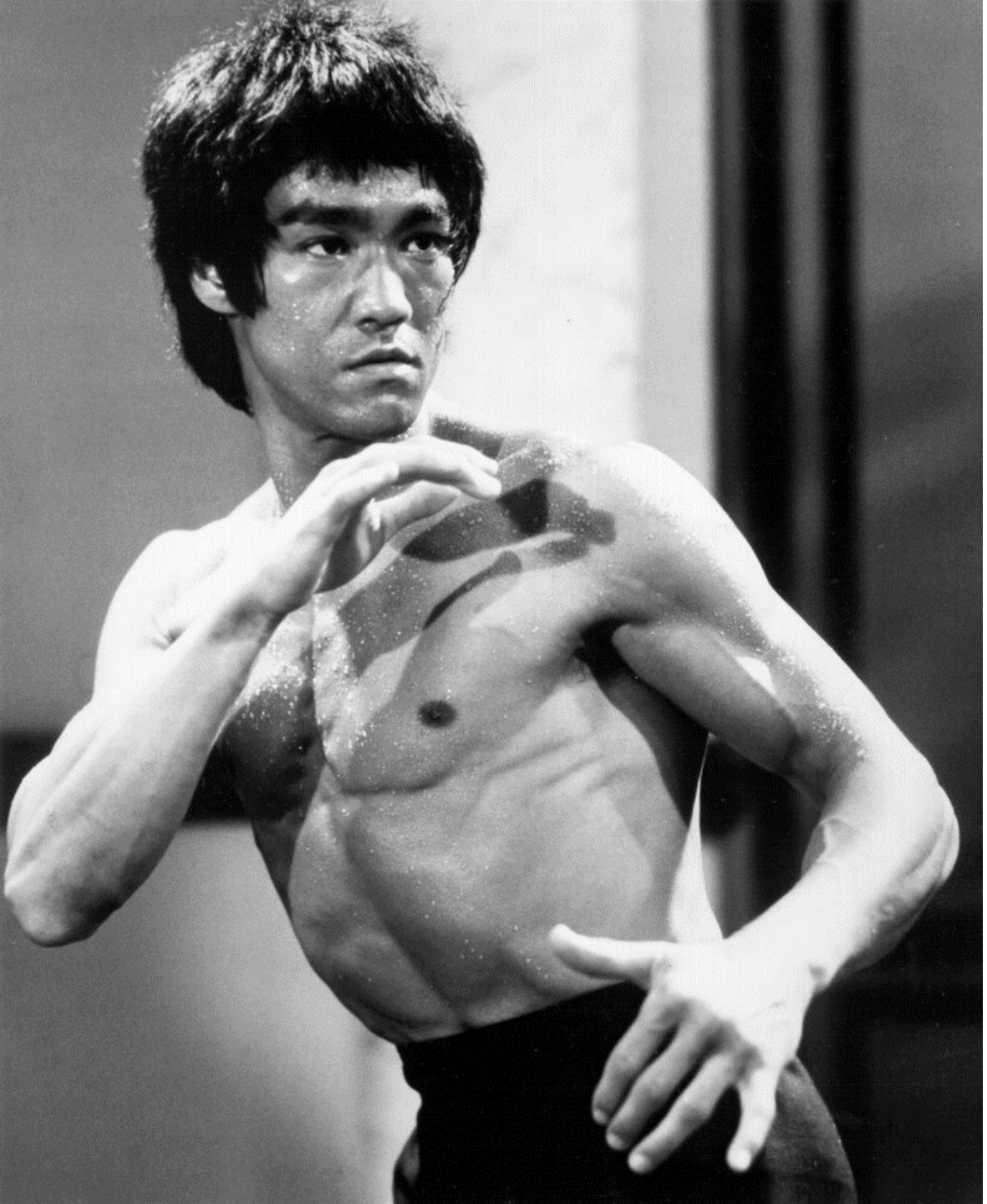
Pablo Picasso, 05.03.1960

Other Combinations

>

Le Déjeuner Sur L'herbe with
THE NEW JAZZ ORCHESTRA

午飯



“Adapt what is useful, reject what is useless and add what is specifically your own.”

KODAK vs. Apple

>

iPod Mini

Apple, 2004

Vanity

Kodak, 1927

iPod Mini

Apple, 2004

Vanity

Kodak, 1927

John Malcovich

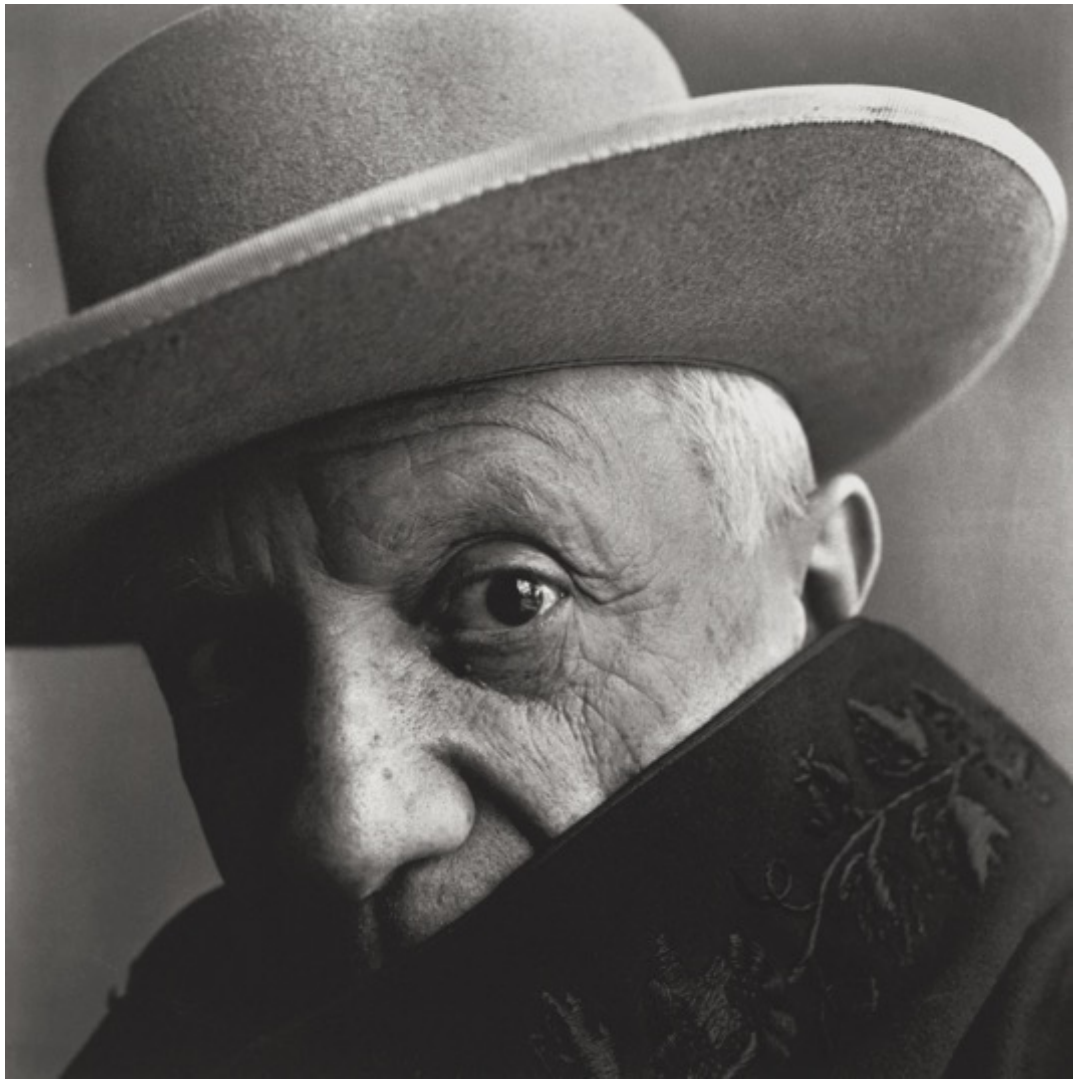
>

Pablo Picasso

Photo by Irving Penn, 1957

John Malkovich

Photo by Sandro Miller, 2014

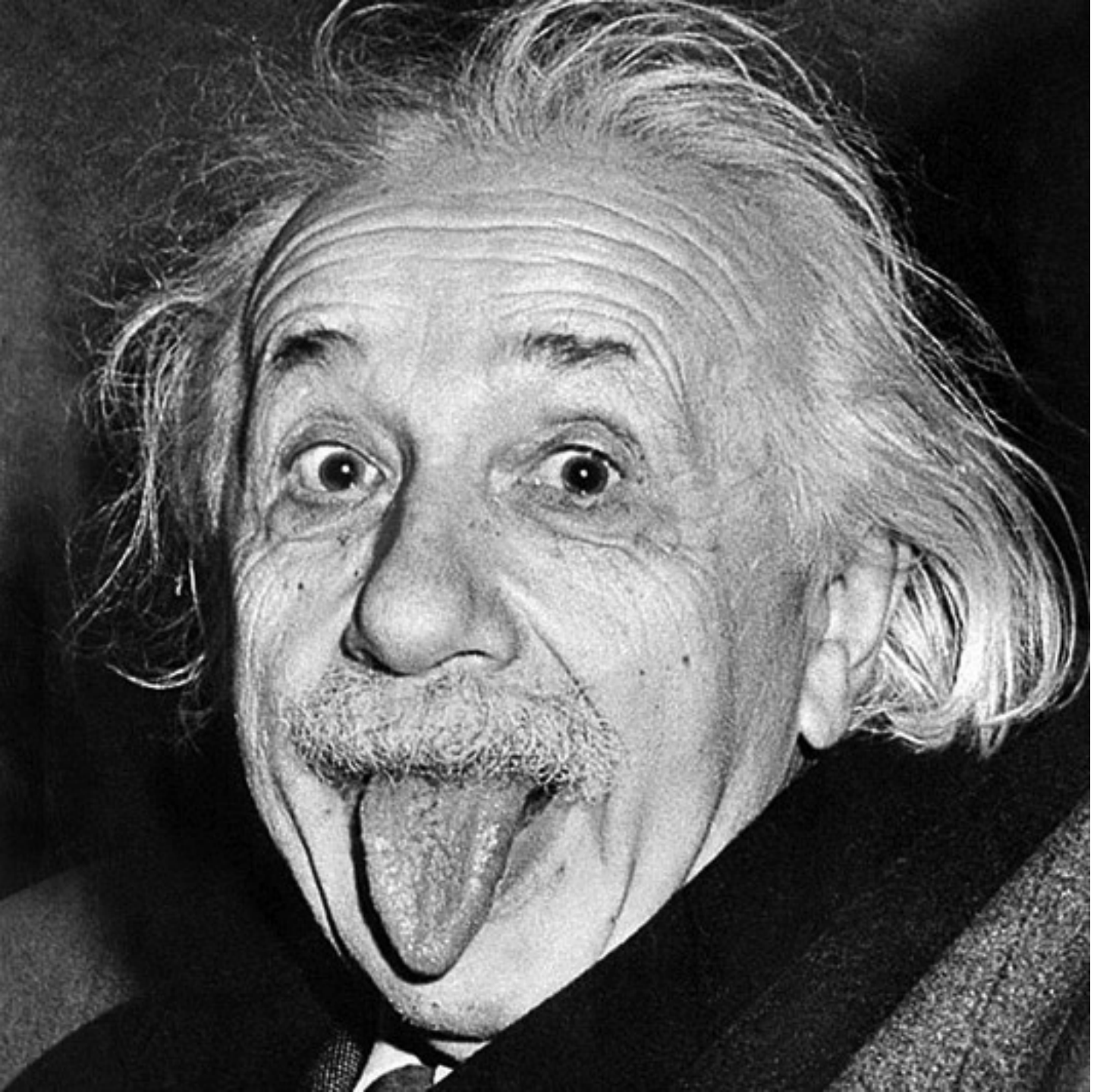


Pablo Picasso

Photo by Irving Penn, 1957

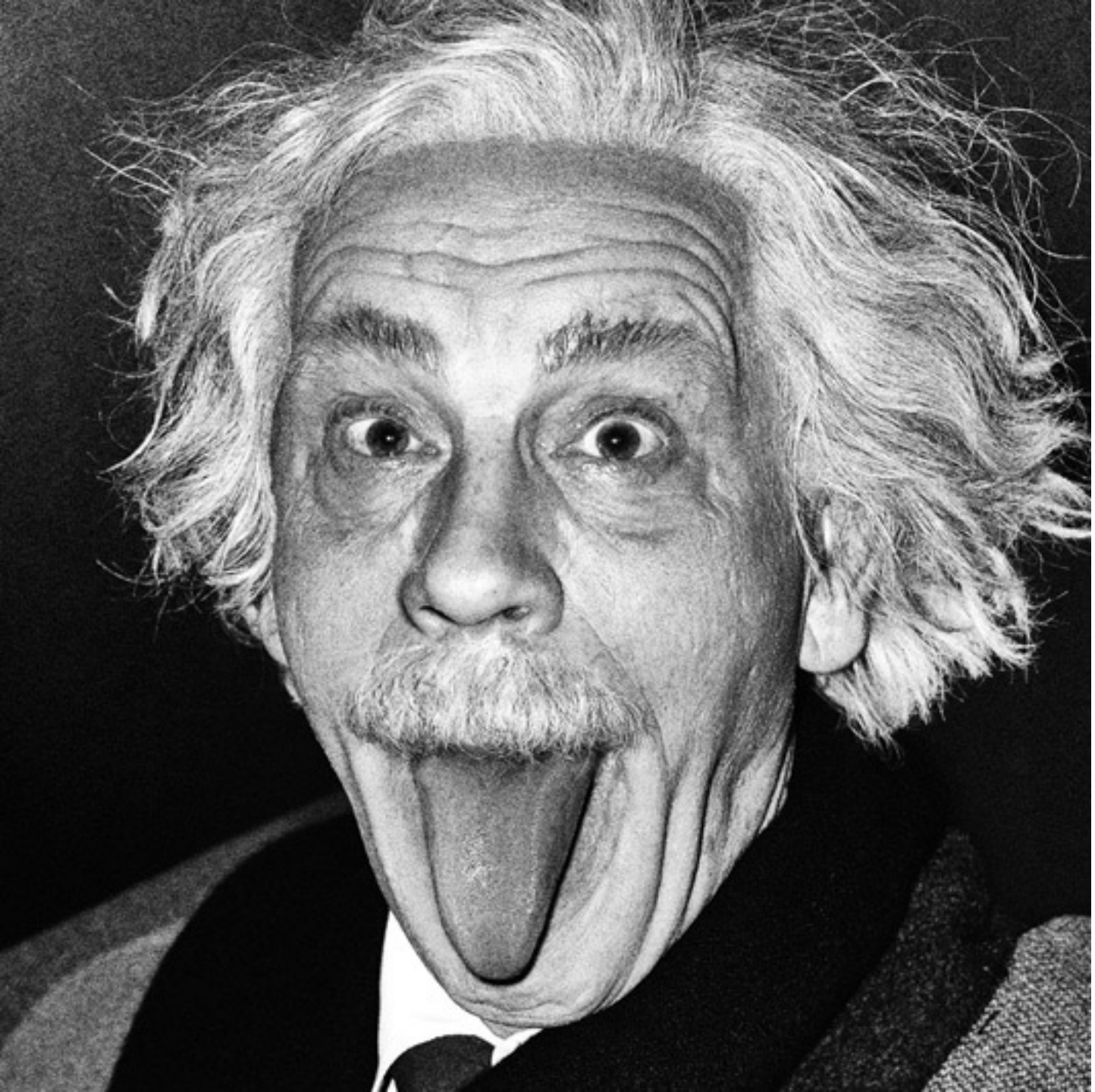
John Malkovich

Photo by Sandro Miller, 2014



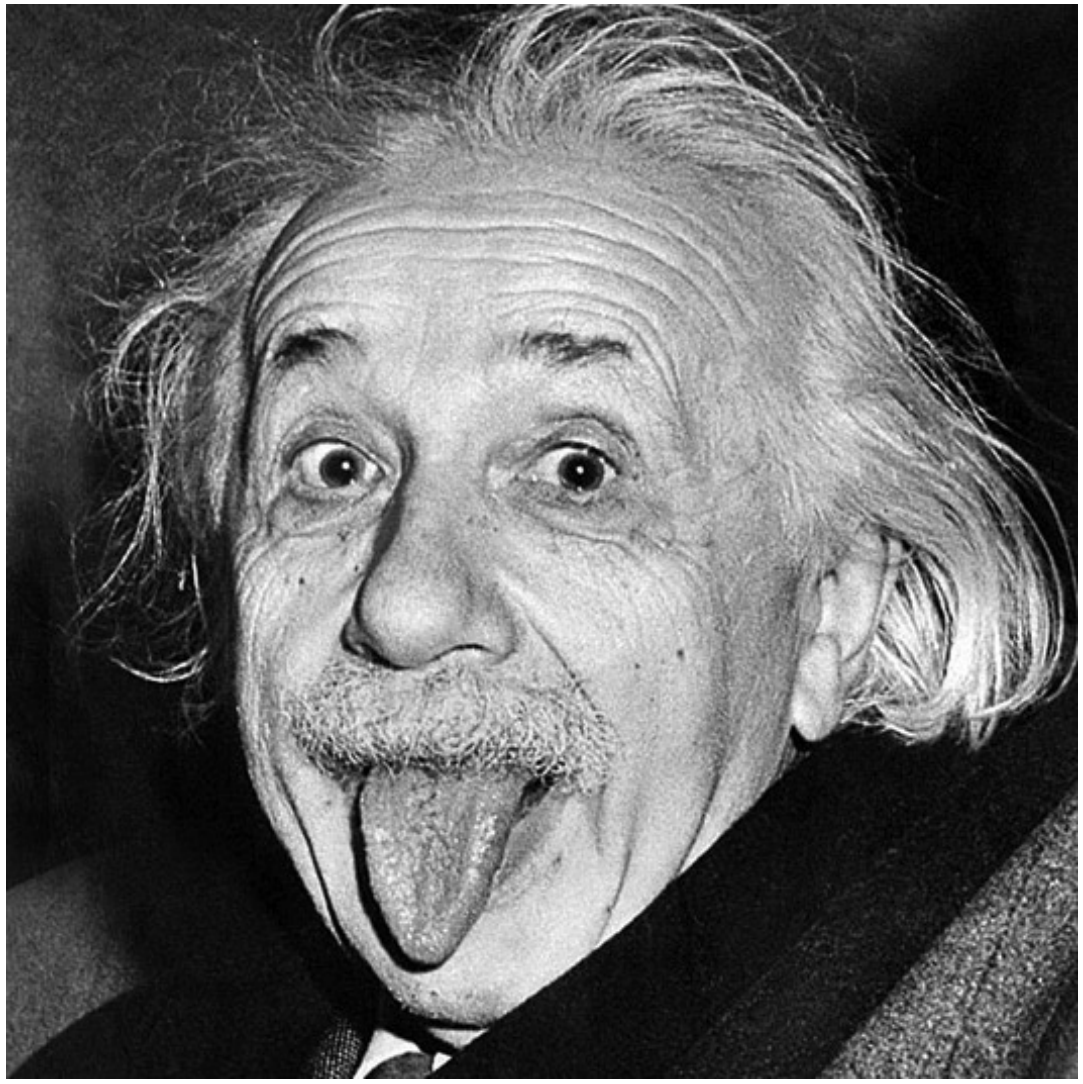
Albert Einstein

Photo by Arthur Sasse, 1951



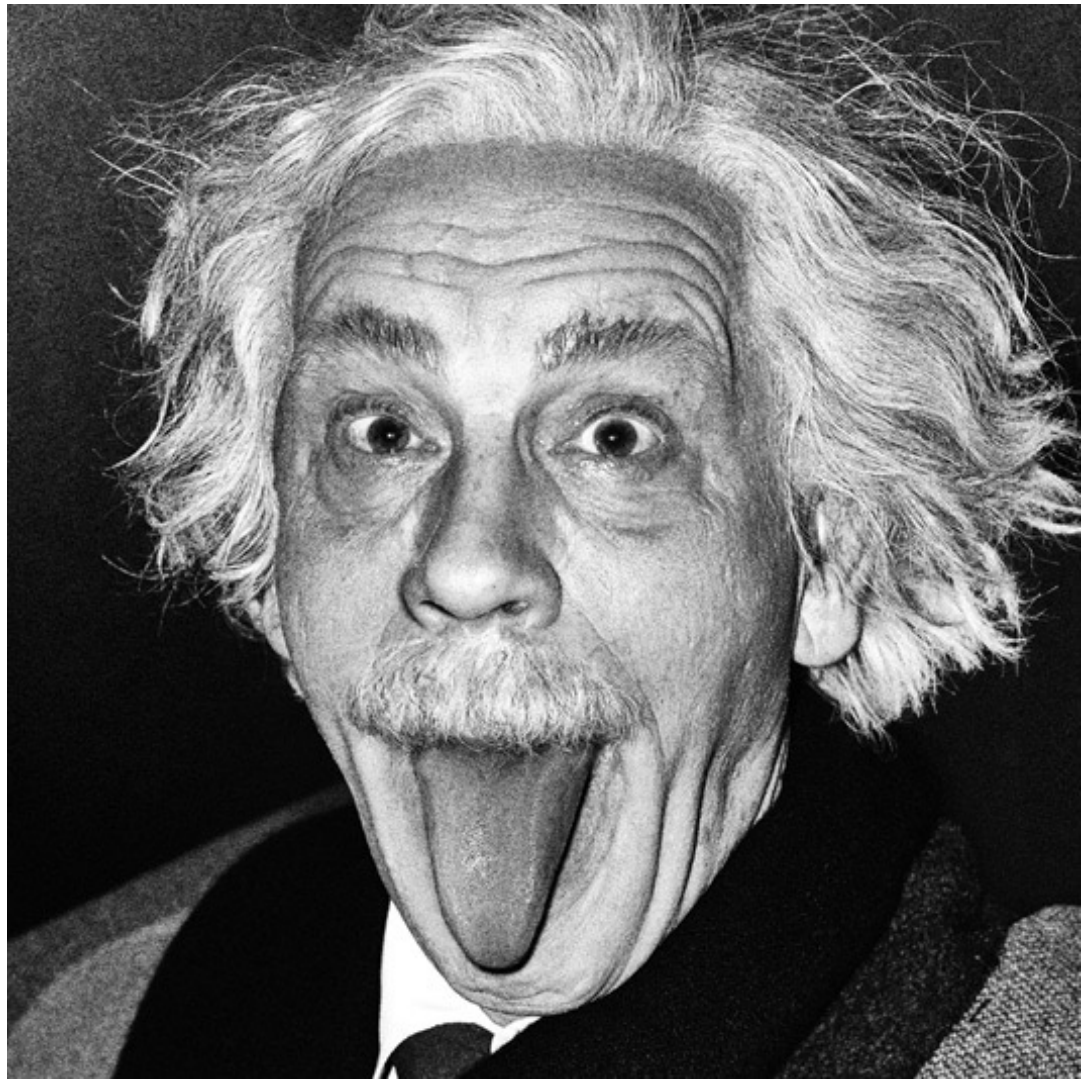
John Malkovich

Photo by Sandro Miller, 2014



Albert Einstein

Photo by Arthur Sasse, 1951

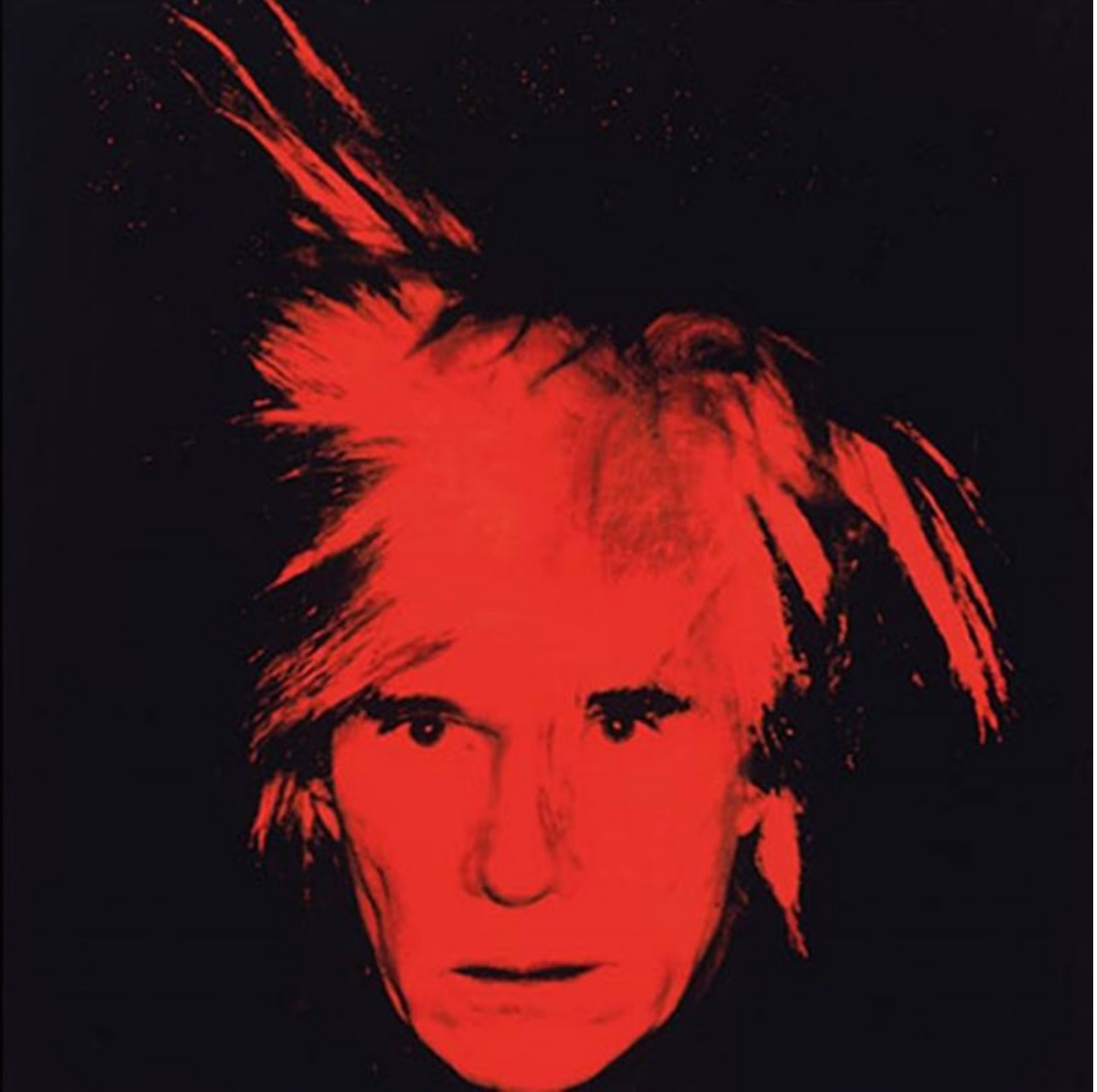


John Malkovich

Photo by Sandro Miller, 2014

Andy Warhol

Photo by Andy Warhol, 1986



Andy Warhol

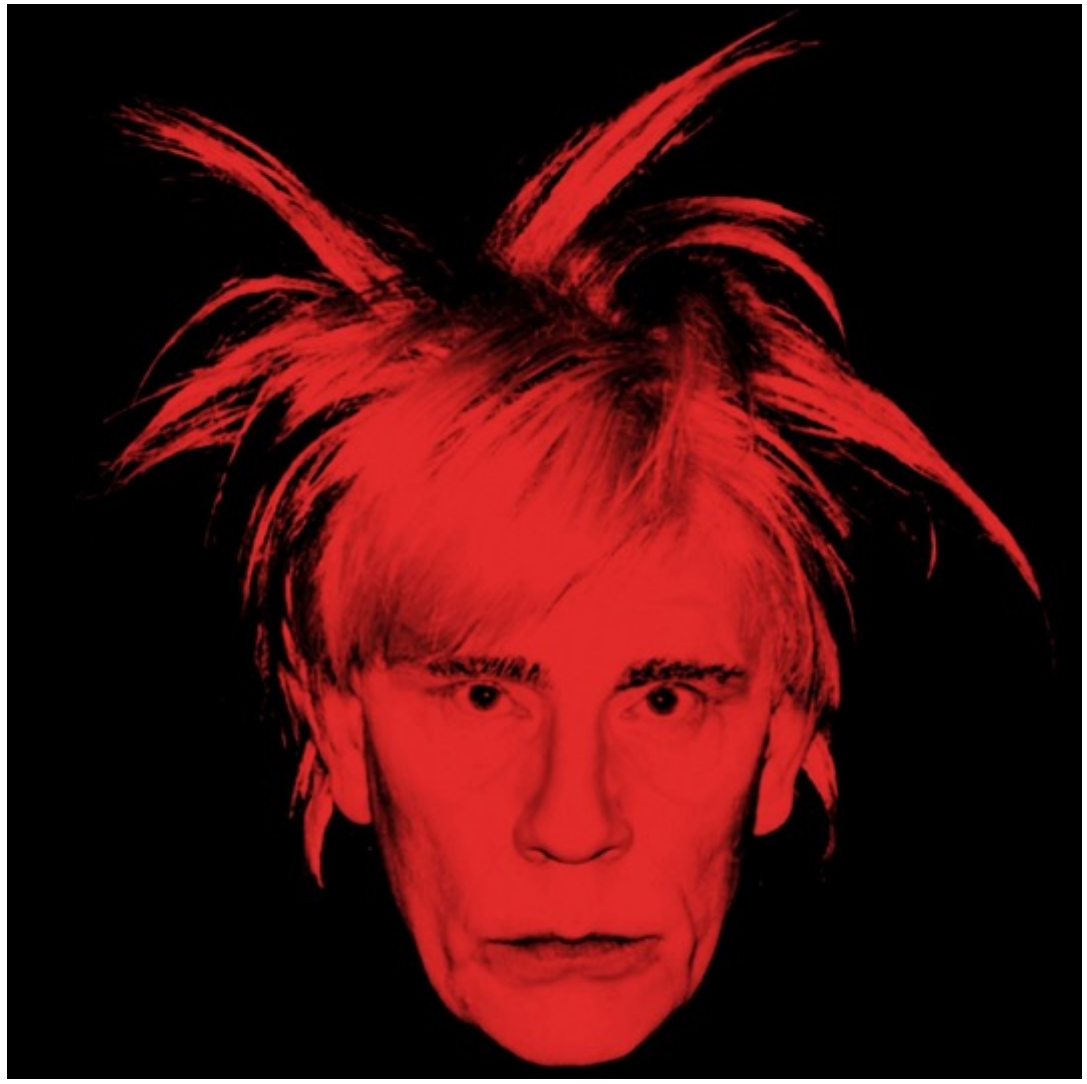
Photo by Andy Warhol, 1986

John Malkovich

Photo by Sandro Miller, 2014

Andy Warhol

Photo by Andy Warhol, 1986



John Malkovich

Photo by Sandro Miller, 2014

Pablo Picasso

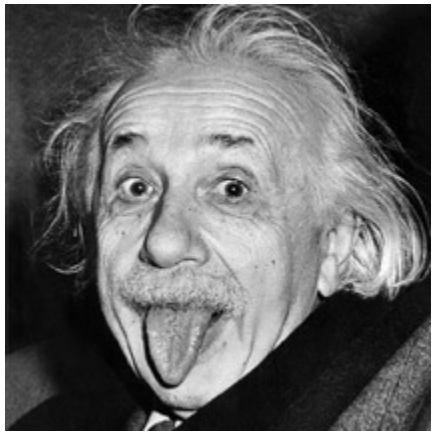
Photo by Irving Penn, 1957

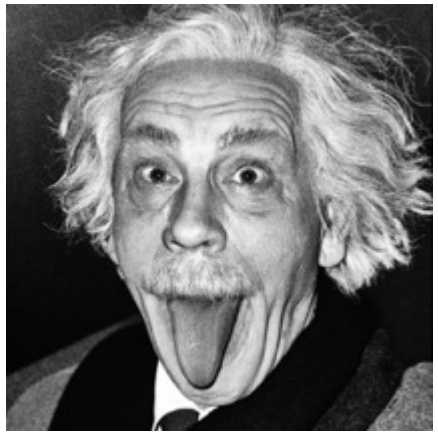
John Malkovich

Photo by Sandro Miller, 2014

Albert Einstein

Photo by Arthur Sasse, 1951





John Malkovich

Photo by Sandro Miller, 2014

Andy Warhol

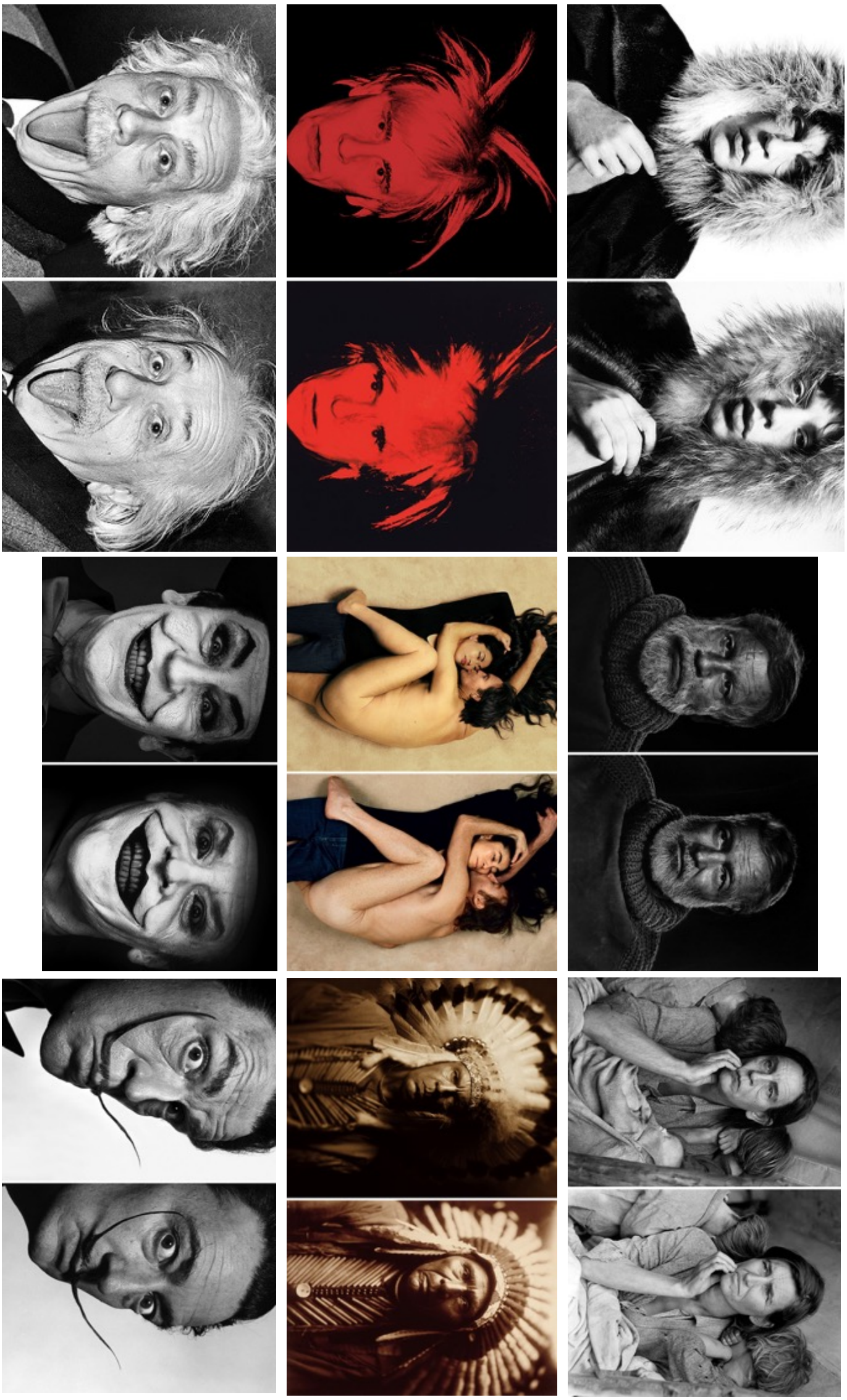
Photo by Andy Warhol, 1986

John Malkovich

Photo by Sandro Miller, 2014

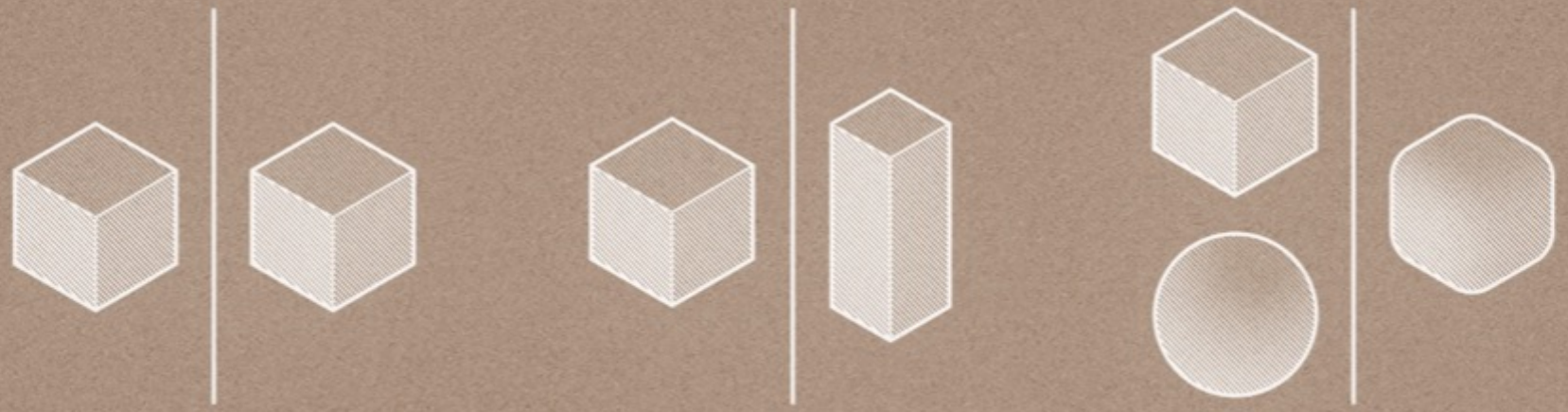
Malkovich, Malkovich, Malkovic

Homage to Photographic Masters – Photos by Sandro Miller



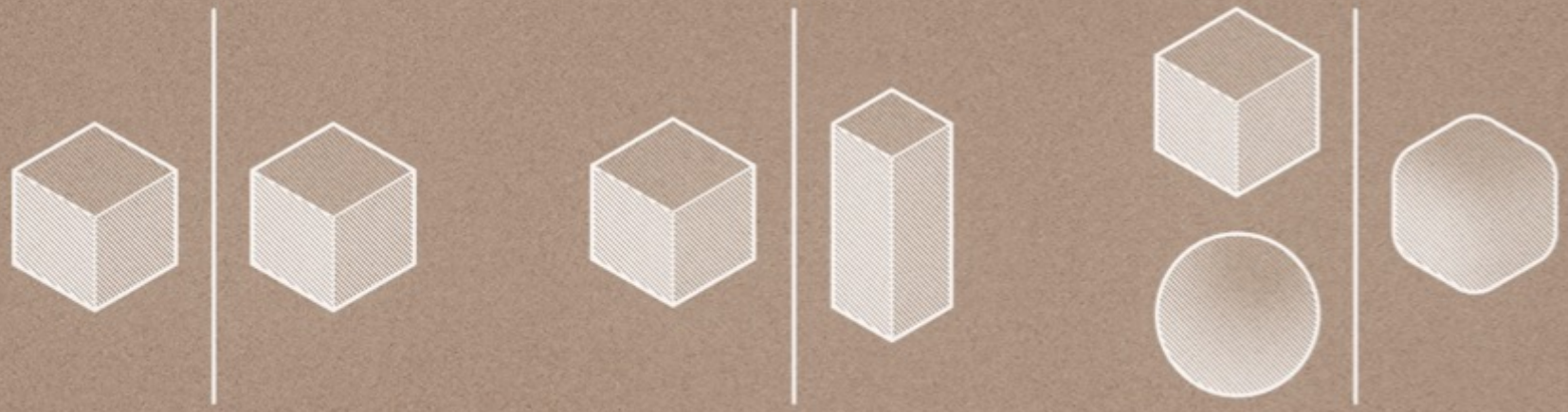
http://edelmangallery.com/exhibitions-and-projects/exhibition-pages/2014/sandro-miller-malkovich,-malkovich,-malkovich-homage-to-photographic-masters.html

THE BASIC ELEMENTS OF CREATIVITY



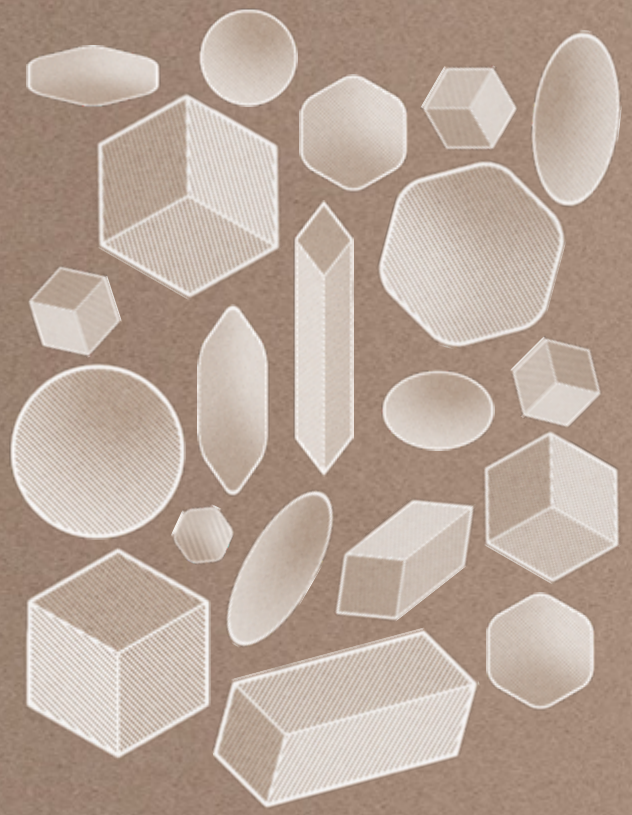
COPY TRANSFORM COMBINE

THE BASIC ELEMENTS OF CREATIVITY

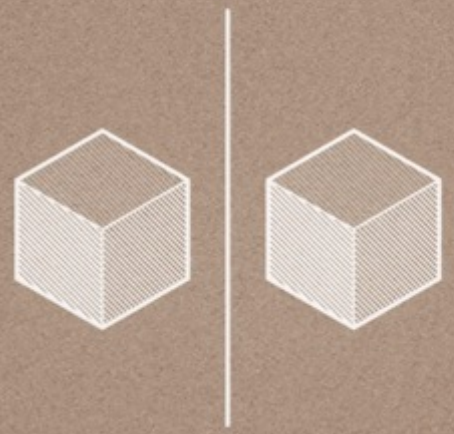


COPY TRANSFORM COMBINE

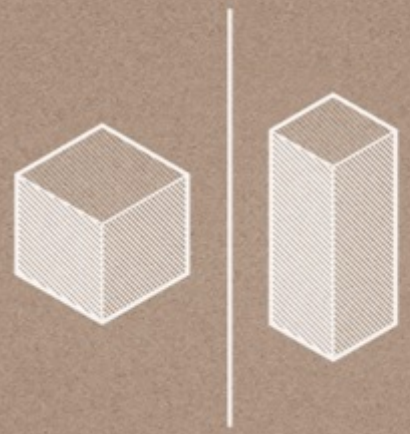
THE BASIC ELEMENTS OF CREATIVITY



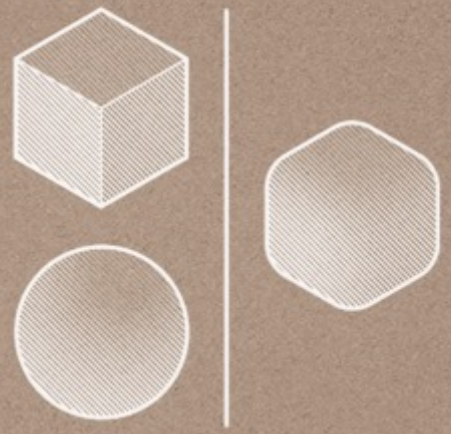
COLLECT



COPY



TRANSFORM



COMBINE

Collect

“The only art I'll ever study is stuff I can steal from.”

“I steal from every single movie ever made.”

“Steal from the best.”

Kurt Vonnegut – Author „Slautherhouse Five“

Inspirations-Quellen

>

Austin Kleon

www.austinkleon.com

GOOD THEFT	VS. BAD THEFT
HONOR	DEGRADE
STUDY	SKIM
STEAL FROM MANY	STEAL FROM ONE
CREDIT	PLAGIARIZE
TRANSFORM	IMITATE
REMIX	RIP OFF

STEALLIKEANARTIST.COM

Messy Desks

>

Karl Lagerfeld

Karl Lagerfeld

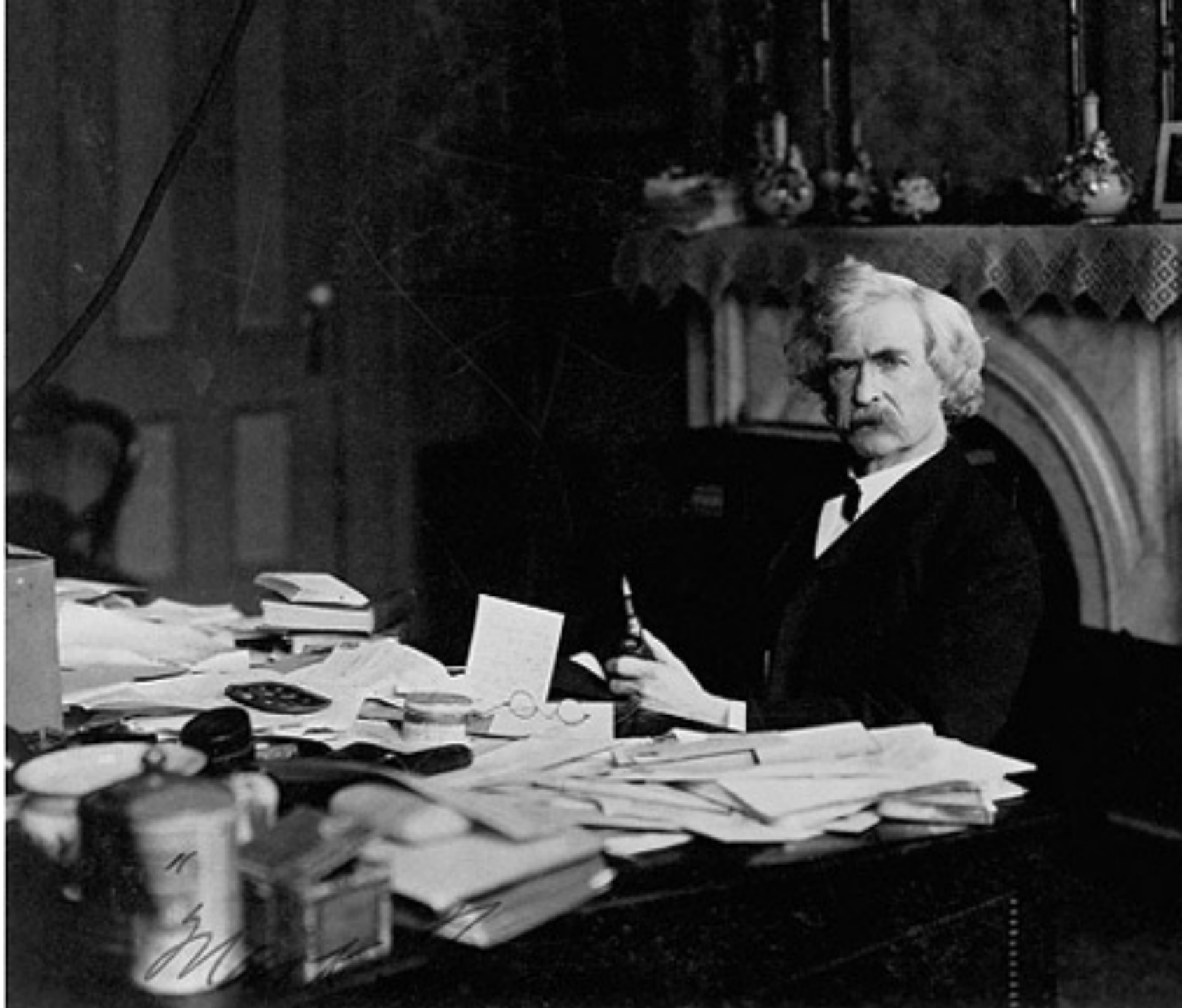
Karl Lagerfeld

Yves Saint Laurent

Steven King

Steven King

Mark Twain



Salvador Dalí

Martin Luther King

John F. Kennedy

Al Gore

Al Gore

Steve Jobs

Bill Gates

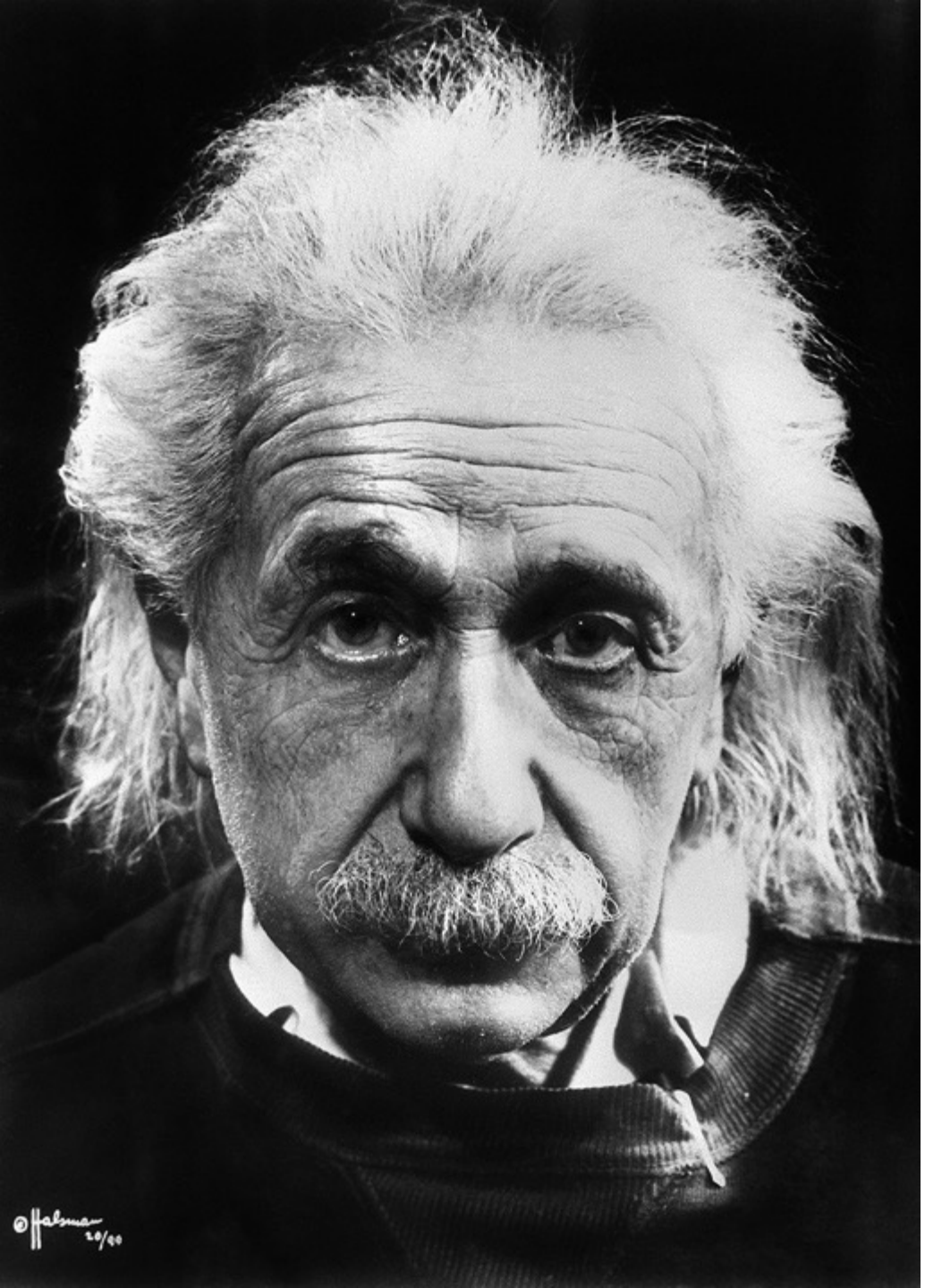
Bill Gates

"Bill Gates 1984"
Clyde Keller photo
www.clydekeller.com
Review Copy
NEW
CROSOFT
MULTI-TOOL
BUDGET

Bill Gates

Albert Einstein

18.04.1955



“If a cluttered desk is a
sign of a cluttered mind,
of what, then,
is an empty desk a sign?”

UX Inspiration Sources

>

Little Big Details

About Archive RSS Submit Detail

Your daily dose of design inspiration.

Search...

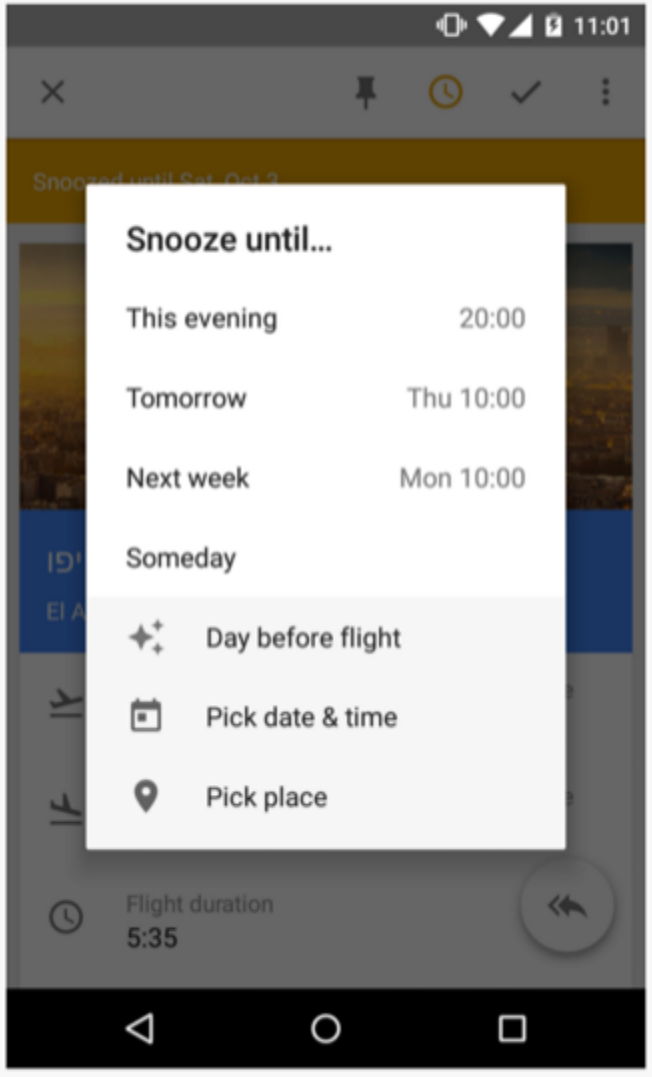
Follow on Tumblr

Follow 20.1K followers

Gefällt mir 7508

Browse

#Popular
#Mobile
#Apple
#Google
#Facebook
#Tumblr
#Amazon
#YouTube
#Twitter
#Dropbox
#Foursquare
#Kickstarter
#Gmail
#OSX
#OS
#Android



9 Oct

0

45

Like Reblog

Wednesday 28, October

Holiday Memories

By epiphanysearch from United Kingdom

38

DESIGN	USABILITY	CREATIVITY	CONTENT	SITE OF THE DAY	AVERAGE
6.99	6.45	7.13	7.13	SOTD 28 OCT	6.87

See how the British holiday has changed through a hundred years of holiday memories

LAST NOMINEES We need your vote

SITE OF THE MONTH A collaboration with Webydo

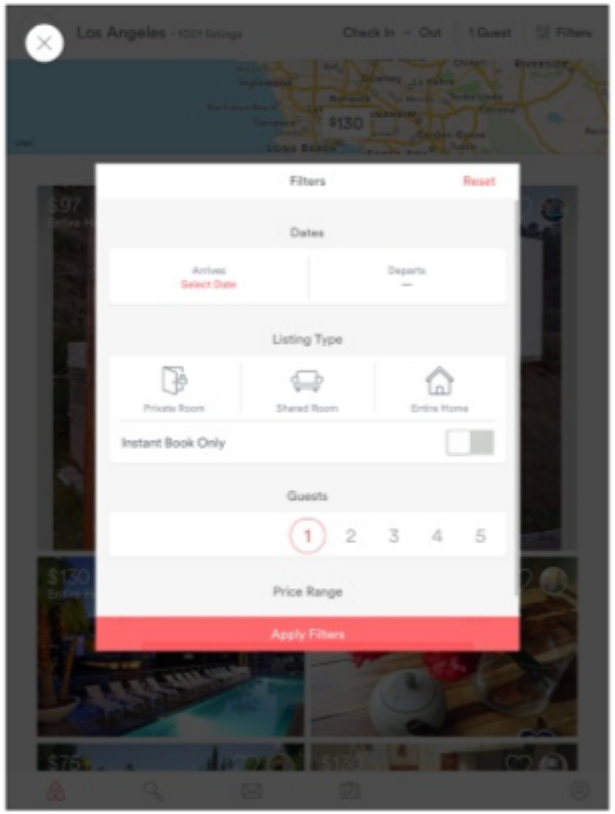
pttrns

Search Resources Suggest Follow @pttrns

All Years

Latest
iPhone
iPad
Android
Apple Watch

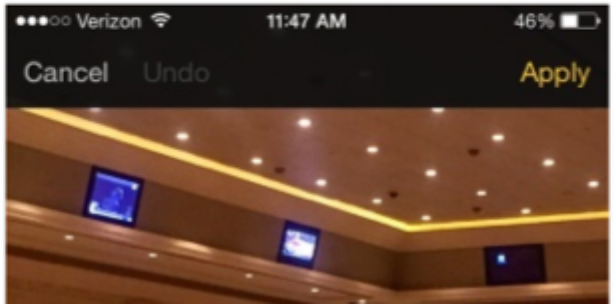
About
Activity Feeds
Ask Permission
Book
Browser
Calculators
Calendars & Time
Capture
Cards
Charts
Check In
Checkout
Coach Marks
Comments
Content Screen
Coverpage
Create Post
Customization
Discovery
Drawing
See all 56...



Airbnb

Moleskine Timepage – Calendar for iCloud, Google & Exch...

Pixelmator



MOBILE PATTERNS

ALL

Search

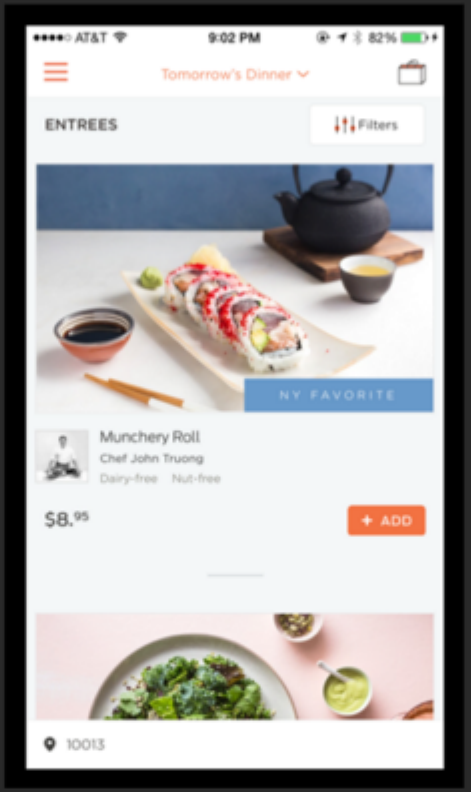
- RECENTLY ADDED
- CALENDAR
- CAMERA CONTROLLER
- COACH MARKS
- COMMENT COMPOSE
- COMPOSE SCREENS
- CUSTOM NAVIGATION
- DETAIL VIEWS
- EMPTY DATA SETS
- FEEDS
- LISTS
- LOG IN
- MAPS
- GALLERIES
- POPOVERS
- SEARCH
- SETTINGS
- SIGN UP FLOWS
- SPLASH SCREENS
- STATS
- TIMELINES
- USER PROFILES
- WALKTHROUGHS

Tweet 5,149

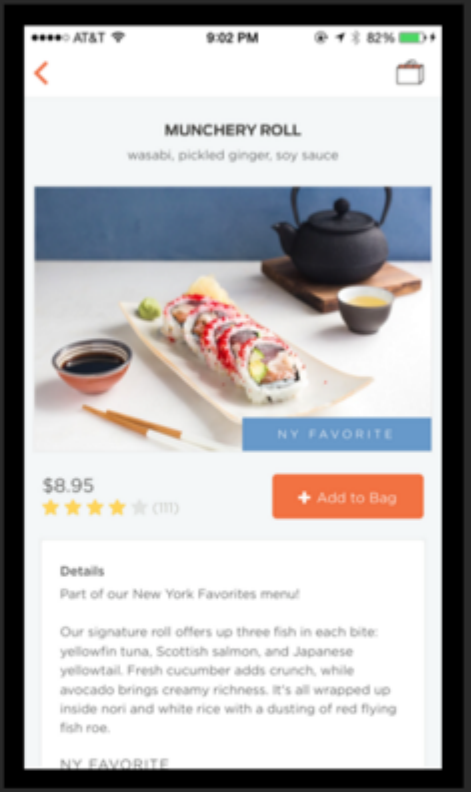
RECENTLY ADDED

Munchery (iPhone) loading views

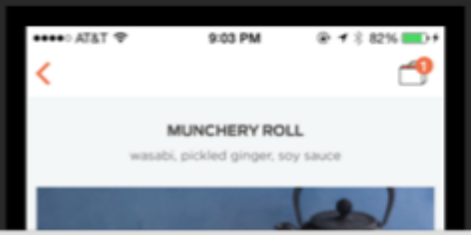
Munchery (iPhone) popovers

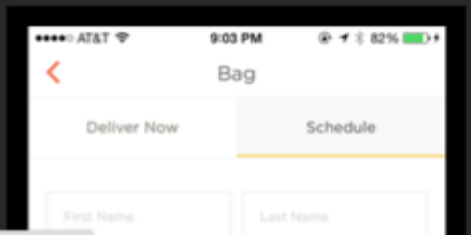


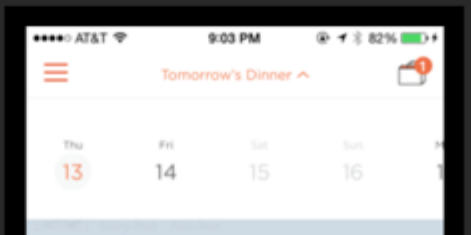
Munchery (iPhone) feeds

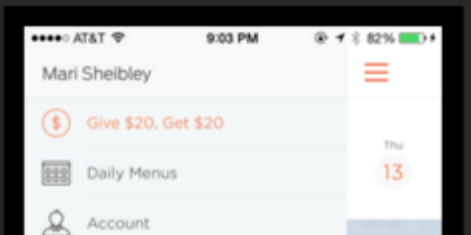


Munchery (iPhone) detail views









dribbble Shots Designers Teams Meetups Stories Jobs ••• Sign up Sign in Search

Popular
Recent
Teams
Debuts
Playoffs
Animated GIFs

What are you working on? Dribbble is show and tell for designers. Learn more Sign up

Popular Shots Now

3,406 9 261
RADIO

3,611 10 247
Creativedash

1,948 11 195
Fraser Davidson

1 1,419 10 165
Allan Peters

2,238 12 171
Nick Slater

1,770 5 123
RADIO

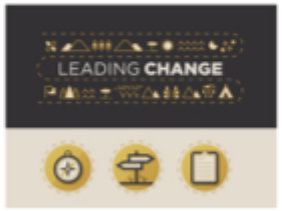
1,373 3 118
UENO.

1,606 10 121
Gene Ross

1,712 27 106
Rocky Roark

1,006 3 97
Element Three

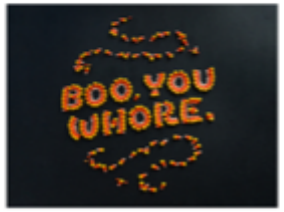
1,028 4 93
Meg Robichaud



891 2 90
Josh Warren

1,767 2 89
Focus Lab

1,461 4 92
UENO.



739 10 79
Danielle Evans

627 4 76
Mattox Shuler

1,032 5 79
Allan Peters

713 4 81
Spencer Charles

1,101 3 81
UENO.

947 1 79
Evernote Design

4 955 1 68
DKNG

ABER

AUFPASSEN

>

iPhone

Apple, 2007

Besserwisser- Boy

>

B

Simon

IBM, 1994

Simon

IBM, 1994

iPhone

Apple, 2007

Judgement of Paris

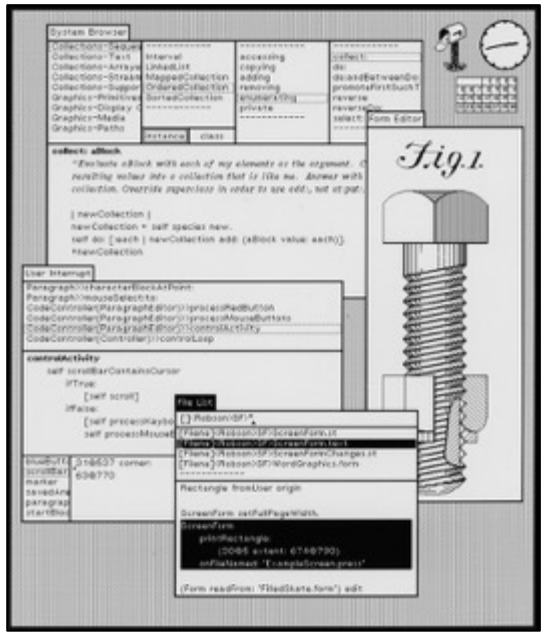
Marcantonio Raimondi, 1515/16

Le Déjeuner sur l'herbe

Édouard Manet, 1863

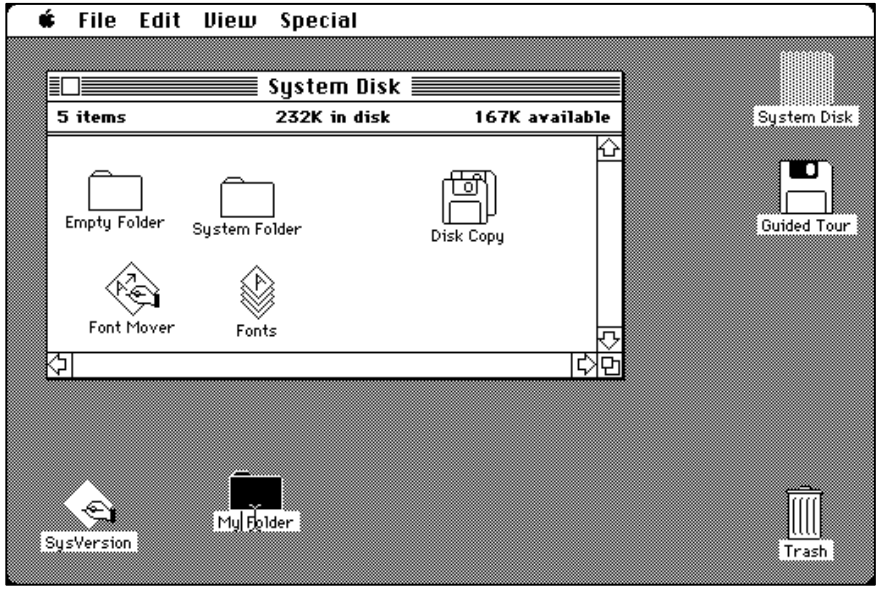
Le Déjeuner sur l'herbe

Pablo Picasso, 05.03.1960



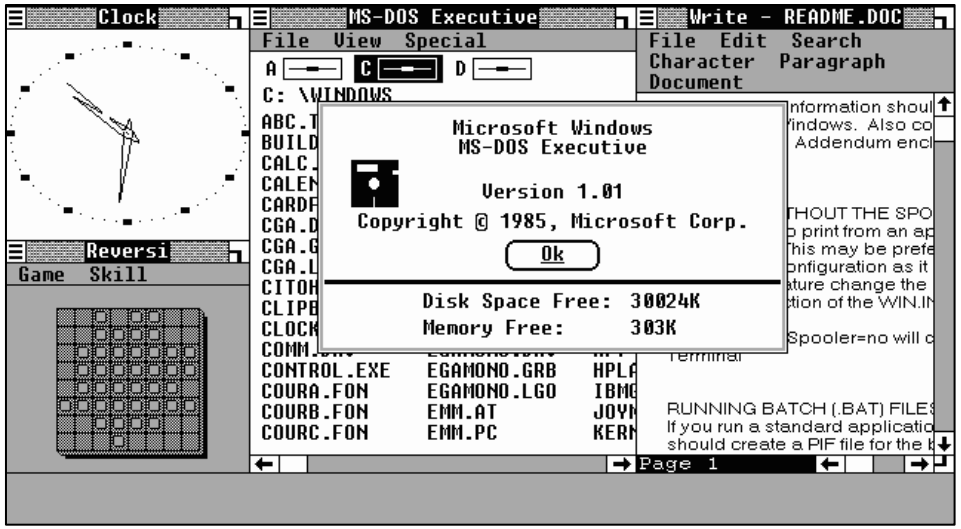
XEROX Alto GUI

XEROX PARC, 1973



Macintosh OS1

Apple Computer, 1984



Windows 1

Microsoft, 1985

Simon

IBM, 1994

iPhone

Apple, 2007

Gphone

HTC, 2009

Simon

IBM, 1994

iPhone

Apple, 2007

Dream

HTC, 2009

Gphone

HTC, 2009

iPhone 3G

Apple, 2008

Galaxy Ace Plus

Samsung, 2012

Dear iPhone 6 users: Welcome to 2012!

iPhone 6
(released 9/2014)
4.7-inch screen
750p resolution
NFC payments
Notification actions
Widgets
3rd-party keyboards
Typing suggestions
Cross-app communication
Cloud photo backup
Battery stats

Nexus 4
(released 11/2012)
4.7-inch screen
760p resolution
NFC payments
Notification actions
Widgets
3rd-party keyboards
Typing suggestions
Cross-app communication
Cloud photo backup
Battery stats

Enjoy your "new" device!

In 2016, you guys will love: Wireless charging, water resistance, IR blasters, multi-user support, selectable default apps, split-screen apps, app installs from a browser, and virtual buttons!

If you need help with your iPhone's new features, just ask an Android user. We've had this stuff for years.

<3, Ron

Dear Android *Lusers*: Welcome to 2008!

iOS vs Android

(iPhone OS 2.0 - 2008) Adaptive Brightness **(Android L - 2014)**

(iOS 4 - 2010) Phone Rotation Lock Quick Access **(Android L - 2014)**

(iOS 5 - 2011) Lockscreen Notifications **(Android L - 2014)**

(iOS 6 - 2012) Do Not Disturb **(Android L - 2014)**

(iOS 7 - 2013) 64-bit Support **(Android L - 2014)**

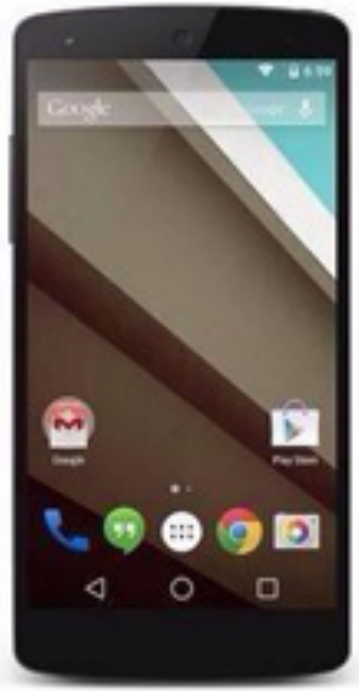
This is not just about Android L

(iOS 5 - 2011) Wireless screen mirroring - AirPlay / Miracast **(Android 4.2 - 2012)**

(iOS 5 - 2011) Bluetooth Low Energy **(Android 4.3 - Jul 2011)**

(iOS 5 - Jun 2011) Camera Lockscreen Shortcut **(Android 4.0 - Oct 2011)**

(iPhone OS - 2007) Pinch to zoom **(Android 1.6 - 2008)**



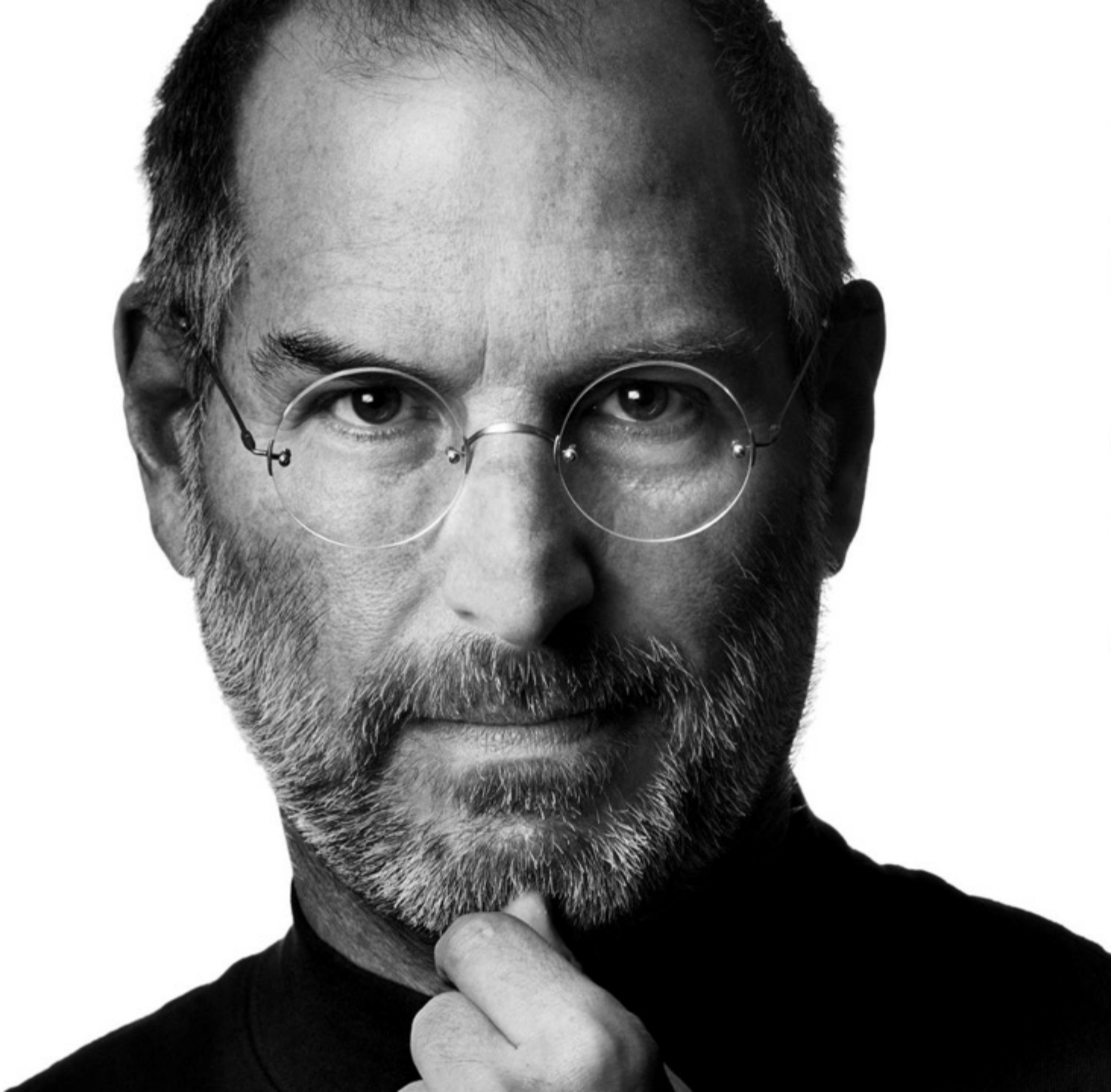
Enjoy Android L (if it ever comes to your phone)!

In fact, touchscreen phones wouldn't have been the way they are today, had it not been for the iPhone. So STFU.

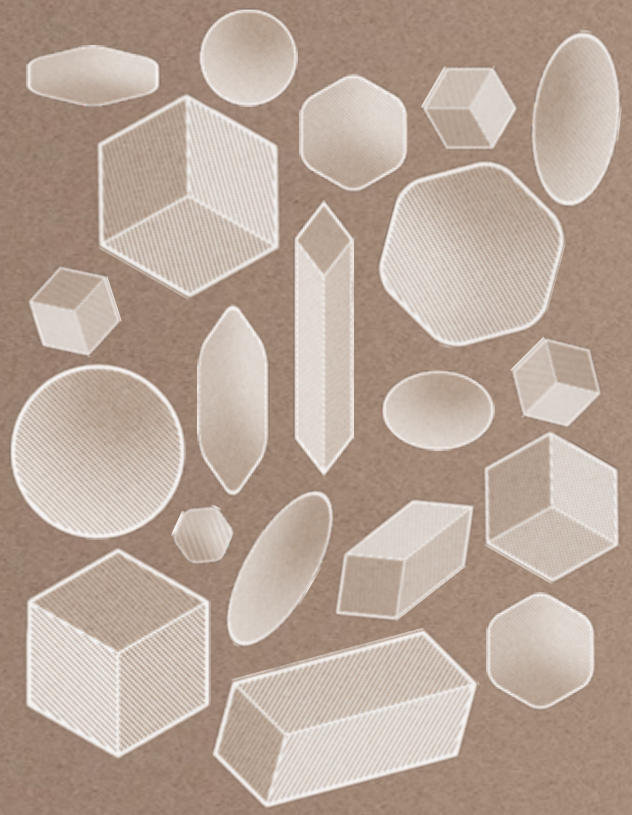
#Burn, PriceBaba.com

“We have always been shameless about stealing great ideas.”

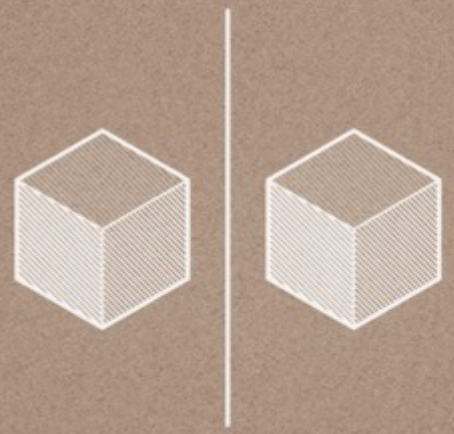
“I'm going to destroy Android, because it's a stolen product. I'm willing to go thermonuclear war on this.”



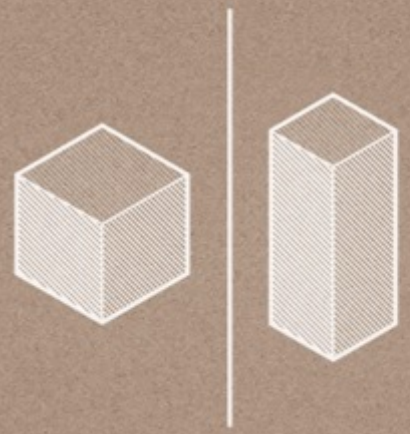
THE BASIC ELEMENTS OF CREATIVITY



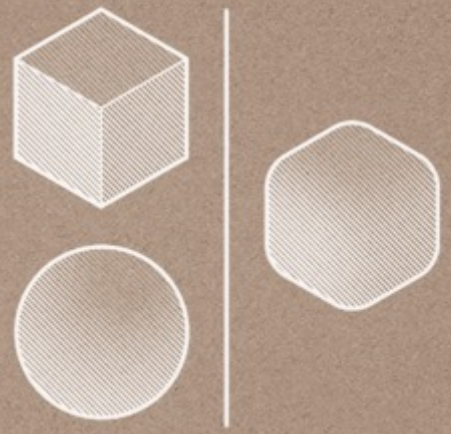
COLLECT



COPY



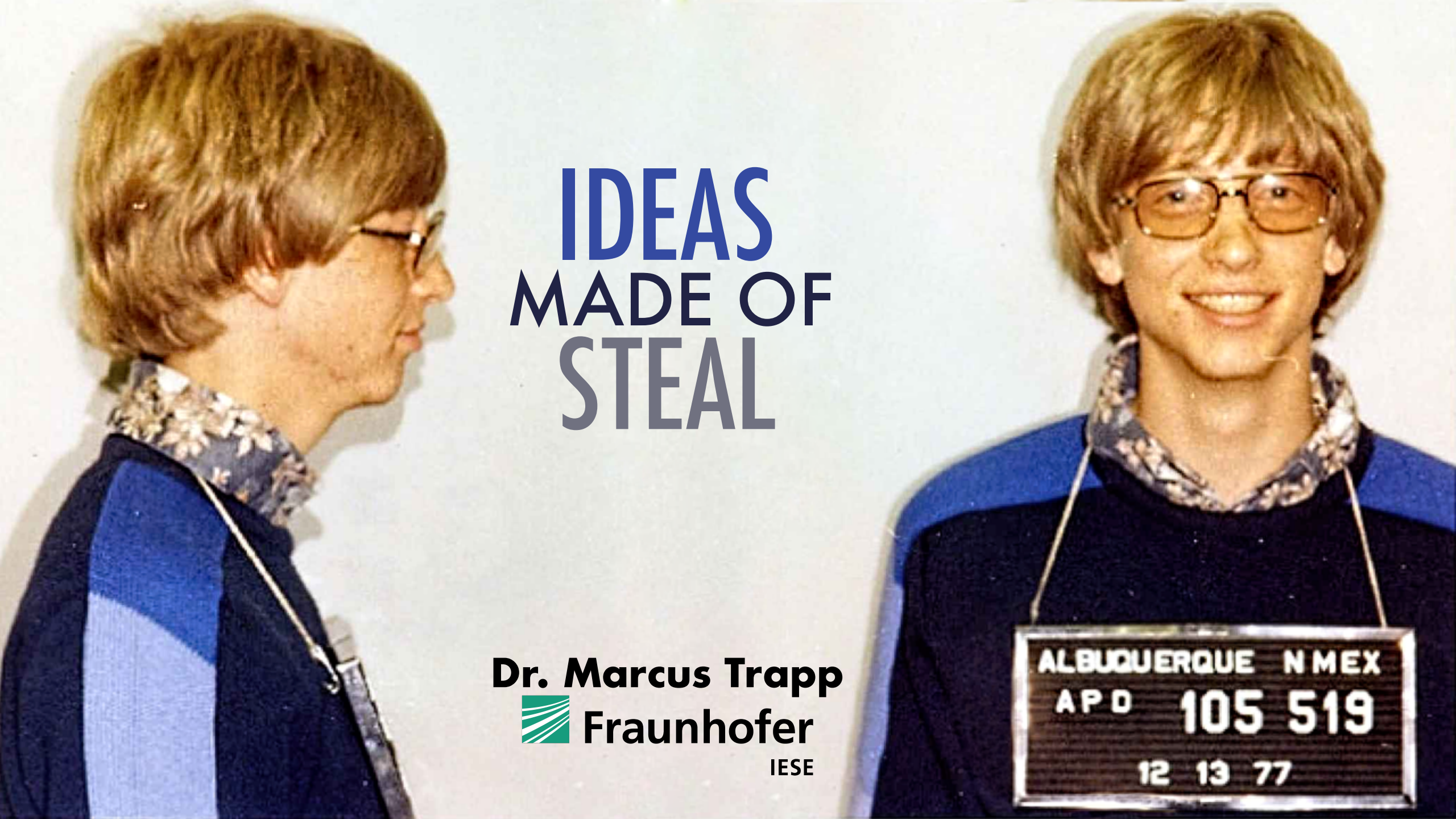
TRANSFORM



COMBINE

IDEAS MADE OF STEAL

Dr. Marcus Trapp
Fraunhofer
IESE



ramstein news

Steffen Startseite

Alle Beiträge Personen Fotos Videos Seiten Orte Gruppen Apps Veranstaltungen

Ergebnisse filtern

GEPOSTET VON

- Beliebige Person
- Du
- Deine Freunde
- Deine Freunde und Gruppen
- Wähle eine Quelle aus ...

IN GRUPPE GEPOSTET

- Beliebige Gruppe
- Deine Gruppen
- Wähle eine Gruppe aus ...

DATUM DES BEITRAGS

- Beliebige Zeit
- 2017
- 2016
- 2015
- Wähle ein Datum aus ...

Beiträge von Freunden

Ralf Hechler hat Ramstein News Video geteilt.
25. August um 13:38 ·

1.802 Aufrufe

Ramstein News
25. August um 12:00 ·

Eine kubanische Sommernacht,
eine Miesenbacher Kerwe,
ein Dampfnudelfest,
ein Family Action Day,
neue Freiwilligendienste in d
Mehr anzeigen

Ralf Hechler, Hans Schenkel und 27 weitere Personen 3 Kommentare

Deutsch · English (US) · Türkçe · Español · Português (Brasil) +

Datenschutz · Impressum/Nutzungsbedingungen · Werbung · Datenschutzinfo · Cookies · Mehr · Facebook © 2017

RAMSTEIN

WETZLAR 2017

SOCIAL MEDIA

WEIMAR

AUGMENTED REALITY

Wir freuen uns über Deine Kommentare & Anregungen, die wir zu unseren Geschäftszeiten auch gerne beantworten."

Stadtwerke Rüsselsheim
Immer eine gute Lösung

Strom / Gas / Wasser / Glasfaser

Gefällt mir | Abonnieren | Teilen | ···

Kontaktiere uns | Nachricht senden

dtwerke
selsheim
dtwerkeRuesselshei

seite
äge
ertungen
os
s
ommen
wir tun
ere
munity
nstaltungen
Seite erstellen

Deine Empfehlungen

★★★★★

Als Rüsselsheimer beziehe ich selbstverständlich Strom und Wasser bei meinen Stadtwerken. Das ist Patriotismus im kleinen und als Gegenleistung bekomme ich ei...

Thorsten Weber
vor etwa 11 Monaten
Alle anzeigen

Energieversorger in Rüsselsheim am Main
3,4 ★★★★★ · Derzeit geschlossen

Community | Alle anzeigen
Lade deine Freunde ein, diese Seite mit „Gefällt mir" zu markieren
844 Personen gefällt das

RÜSSELSHEIM

Status | Foto/Video
Schreib etwas auf seine Seite ...

Beiträge

Info | Alle anzeigen

Walter-Flex-Straße 74
65428 Rüsselsheim am Main
06142 5000
Antwortet i.d.R. innerhalb eines Tages

Facebook ●●●●○ 14:34
Startseite | Stadtwerke Rüsselshei... | Verwalten
Antwortet i.d.R. sofort

Stadtwerke Rüsselsheim H...
Lokales Unternehmen

Antwortet i.d.R. sofort

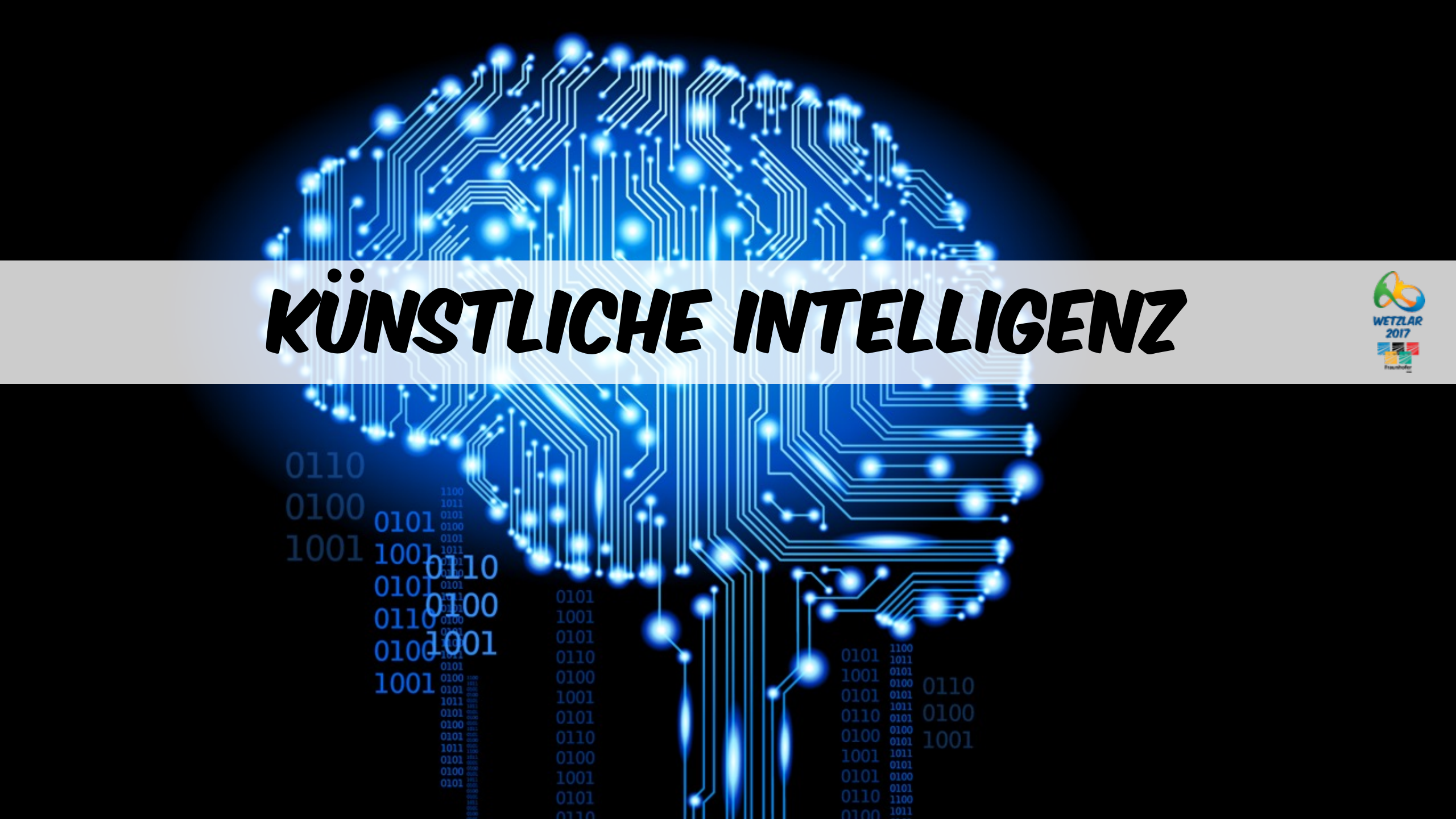
Die Stadtwerke Rüsselsheim GmbH ist die leitende Holding eines kommunalen Konzernverbundes.

WETZLAR 2017

Wenn du auf Los geht's tippst, kann Stadtwerke Rüsselsheim Hessentags-Bot deine öffentlichen Infos sehen und dass du den Link m.me/hessentagsbot geöff...

Los geht's

KÜNSTLICHE INTELLIGENZ



WUPPERTAL

HÄNDLER IN WUPPERTAL

Henrick Abeler e.K. Uhren und Schmuck
Poststraße 11

Naschkatzenparadies
Bahnstr. 7

MST Frieling
Neumarktstraße 36

Feuerstein
Kaiserstra

Wupper-Küchen
Mauerstr. 14

Buchhandlung Baedeker Land + Karte

Festartikel Hirschfeld
Winklerstraße 42

Buchhand
Arkaden

atalanda

Suchen | Suchen | GESCHENKIDEEN | WARENKORB | ANMELDEN

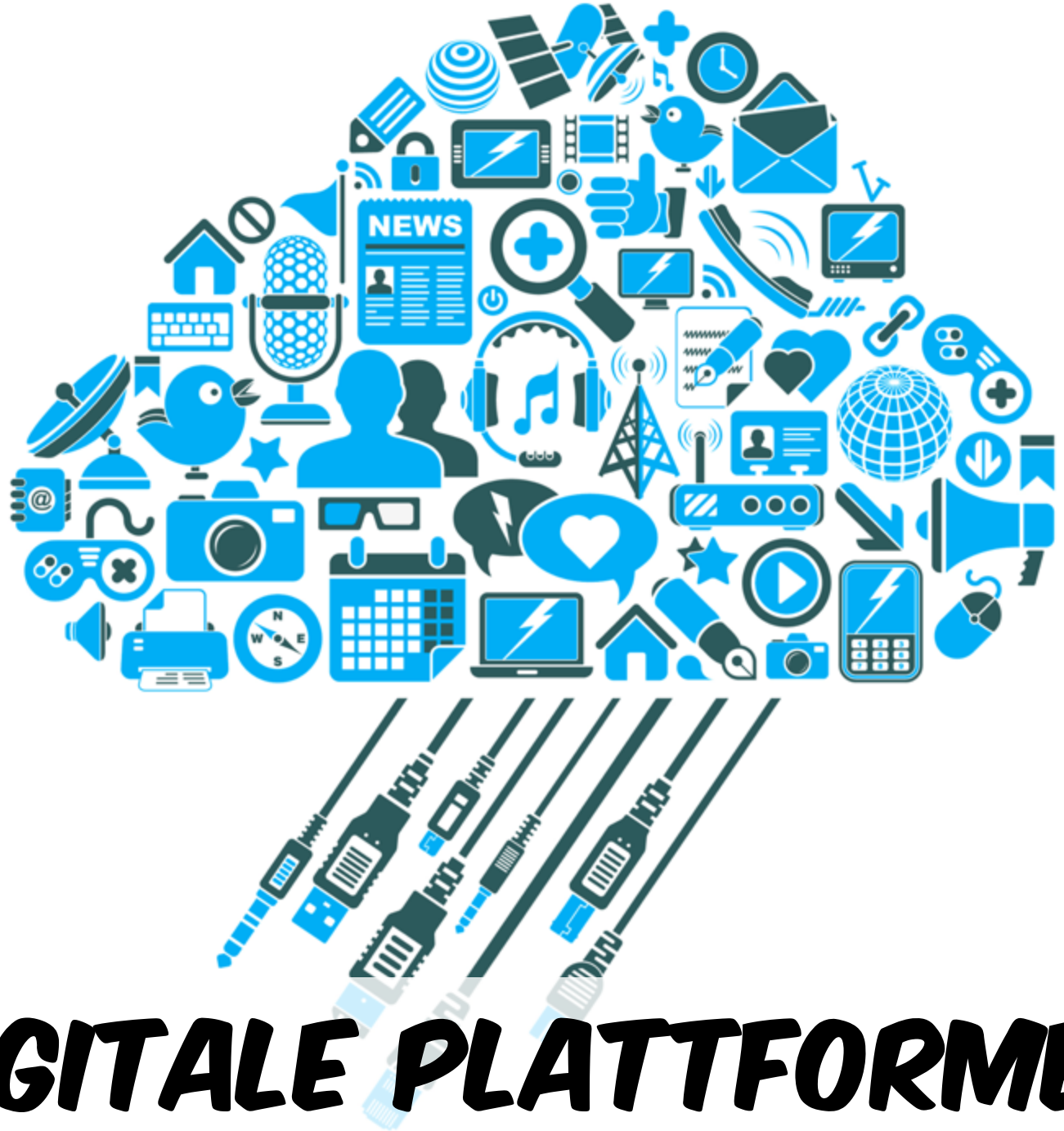
HÄNDLER | ESSEN, TRINKEN & GENUSS | FASHION & ACCESSOIRES | KUNST & UNTERHALTUNG | MEHR

WILLKOMMEN BEI **JUWELIER R. LANDI** 88 PRODUKTE ONLINE VERFÜGBAR

HIER WIRD SCHMUCK ZUM ERLEBNIS

Kaiserstr. 13
42329 Wuppertal
Inhaberin: Rosaria Landi
0202 - 783949
0202 - 2838504
www.juwelier-landi.de
info@juwelier-landi.de
Mo–Fr 9.30–18.30 • Sa 9.30–14 Uhr

Ab einem Warenkorbwert von 40,00 € betragen Ihre Lieferkosten bei Juwelier R. Landi nur 0,00 €!



DIGITALE PLATTFORMEN

WETZLAR 2017

GIG ECONOMY

WETZLAR 2017

MOBILE

BERLIN

AUTONOMES FAHREN

HAMBURG

AUTONOME SYSTEME

Niederzimmern

NIEDERZIMMERN

IM GRAMMETAL - ZWISCHEN ERFURT UND WEIMAR

Letzte Aktualisierung: 03.03.2010

- Startseite
- NZ Aktuell
- Geschichte
- Firmen
- Leben
- Gemeinderat
- Vereine

Startseite

TEER MUSS HER

Kaufen Sie Ihr Schlagloch!

Die Gemeinde Niederzimmern verkauft Ihnen zum Preis von 50 € ein Schlagloch!

Das geteerte Schlagloch erhält eine Plakette mit Ihrem Namen. Geben Sie die Aufschrift einfach mit der Überweisung auf das Konto 1405900 BLZ 82064188 (Raiffeisenbank Weimar) an.

Buy your personal road hole!

The municipality of Niederzimmern is selling their road holes for € 50 apiece!

Besucher auf dieser Seite seit dem 20.03.2006:

9195

Das Wetter in **Niederzimmern**
Mi, 03.03.2010

wolkig

Temp.: -1/5°C
Niederschl.?: 20%
Wind: 17km/h W

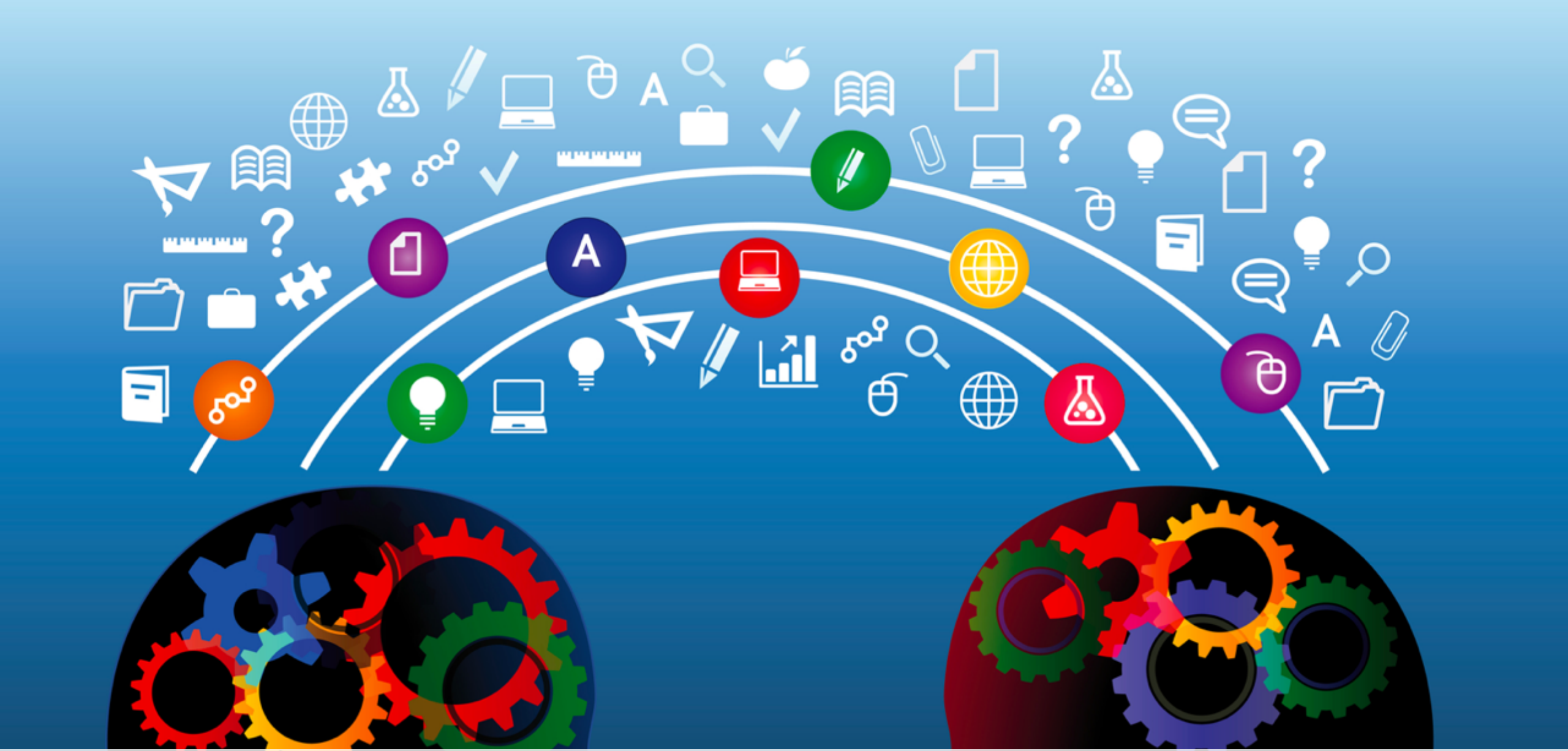
Weitere Werte»

Urlaub mit reise.com

mehr bei wetter.com

NIEDERZIMMERN

WETZLAR 2017



CROWD

WETZLAR 2017

BOSTON

City of Boston.gov

Official Web Site of the City of Boston

Home | 311 | Payments | Residents | Businesses | Visitors | Students | Government

BOS:311

Four ways to report non-emergency issues:

Call 311

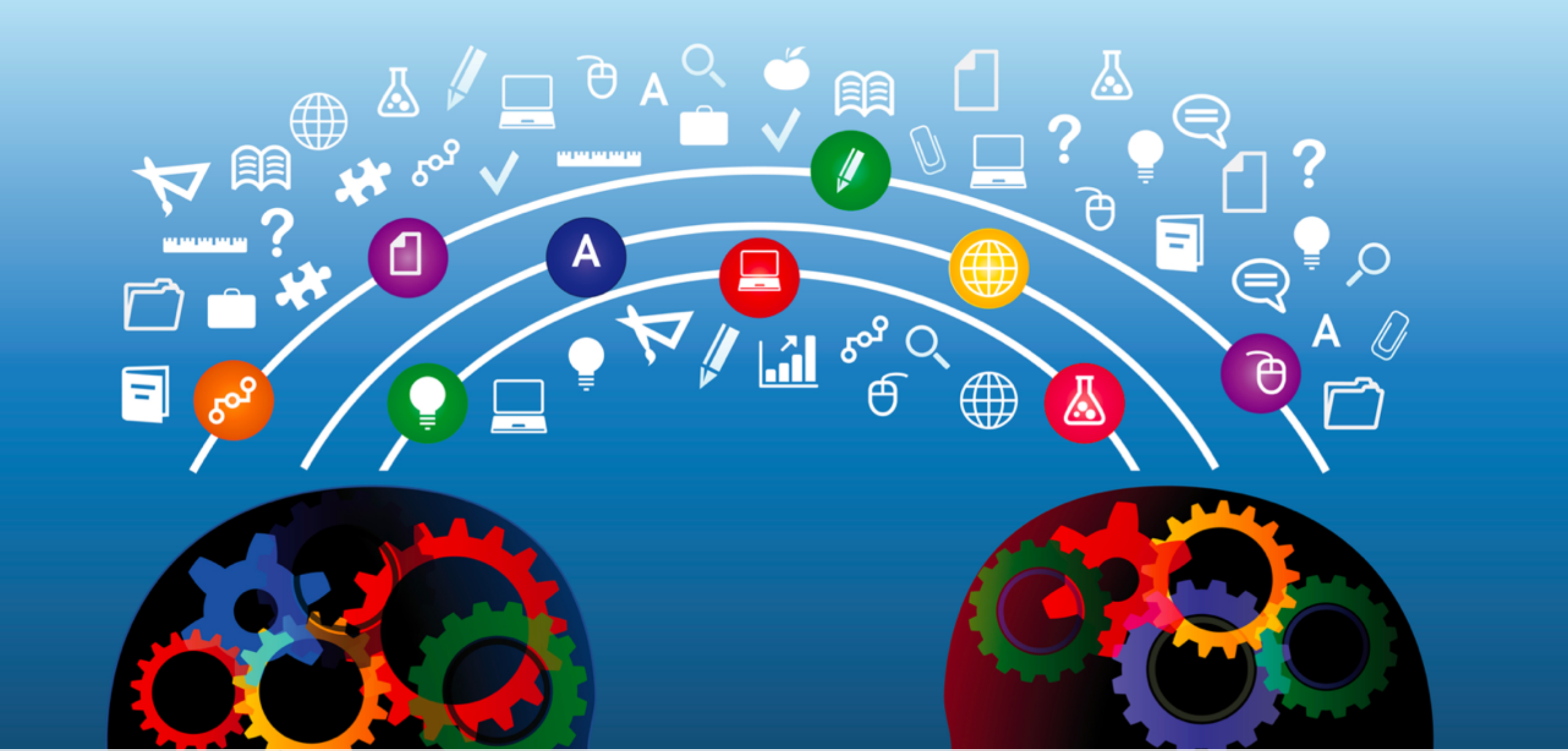
Download the App

Tweet @BOS311

Use this site

Top Service Requests:

- Report a missed curbside pickup >
- Get a pothole fixed >
- Get a street cleaned >
- Get rid of a big item >
- Request needle clean-up >
- Request graffiti removal >
- Report a broken street sign >
- Report a broken traffic signal >
- Pay a parking ticket >
- Report a street lamp is out >



CROWD

WETZLAR 2017

MOBILE

SOCIAL MEDIA

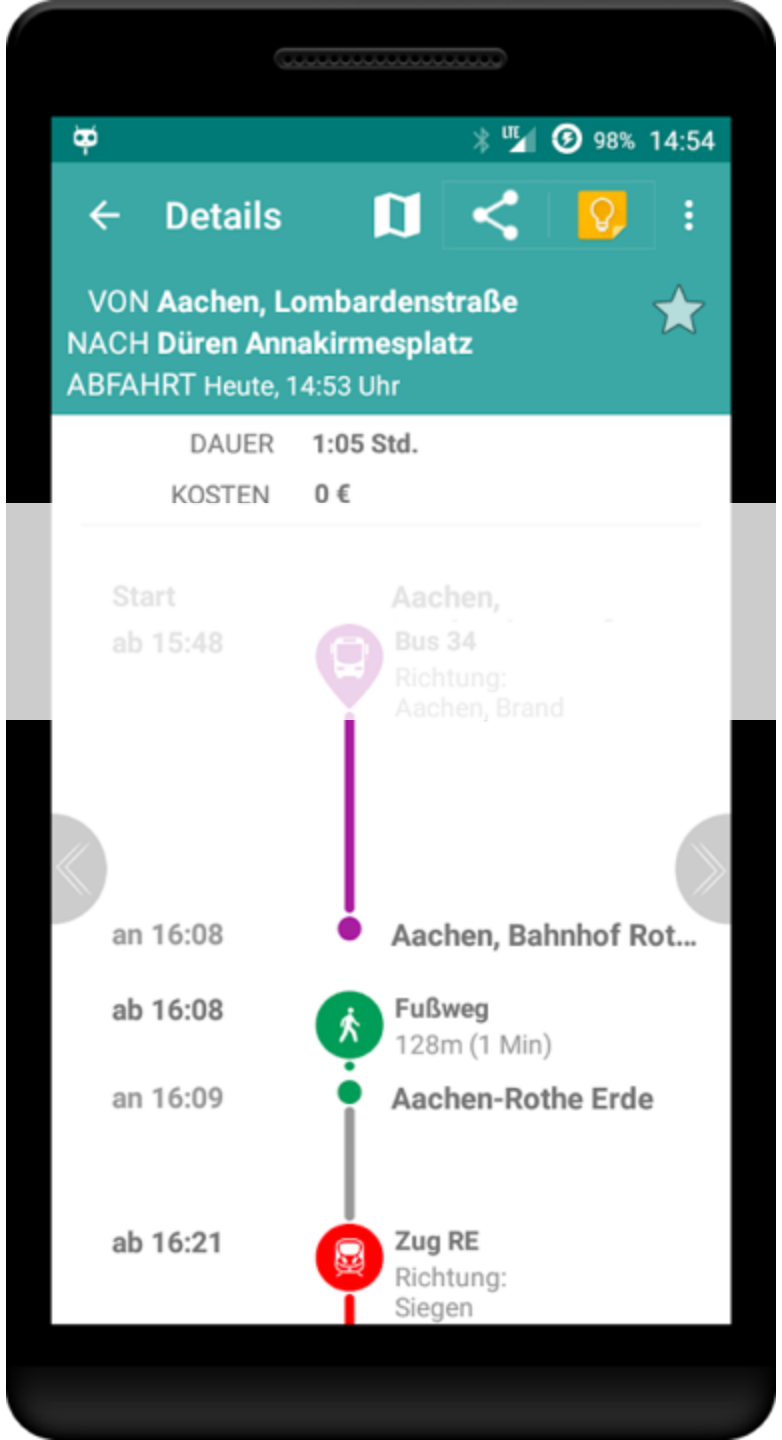
BASEL

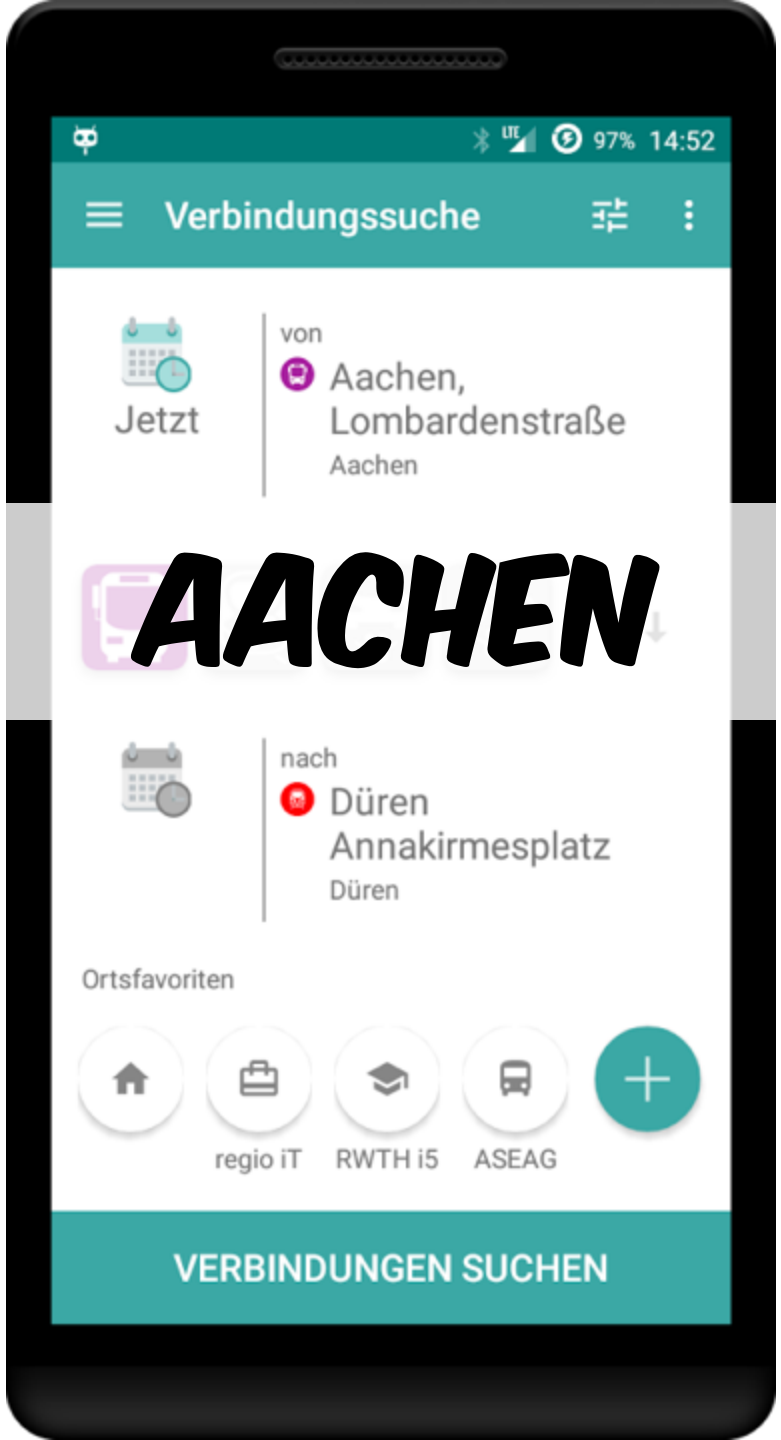
WETZLAR 2017

MOBILE

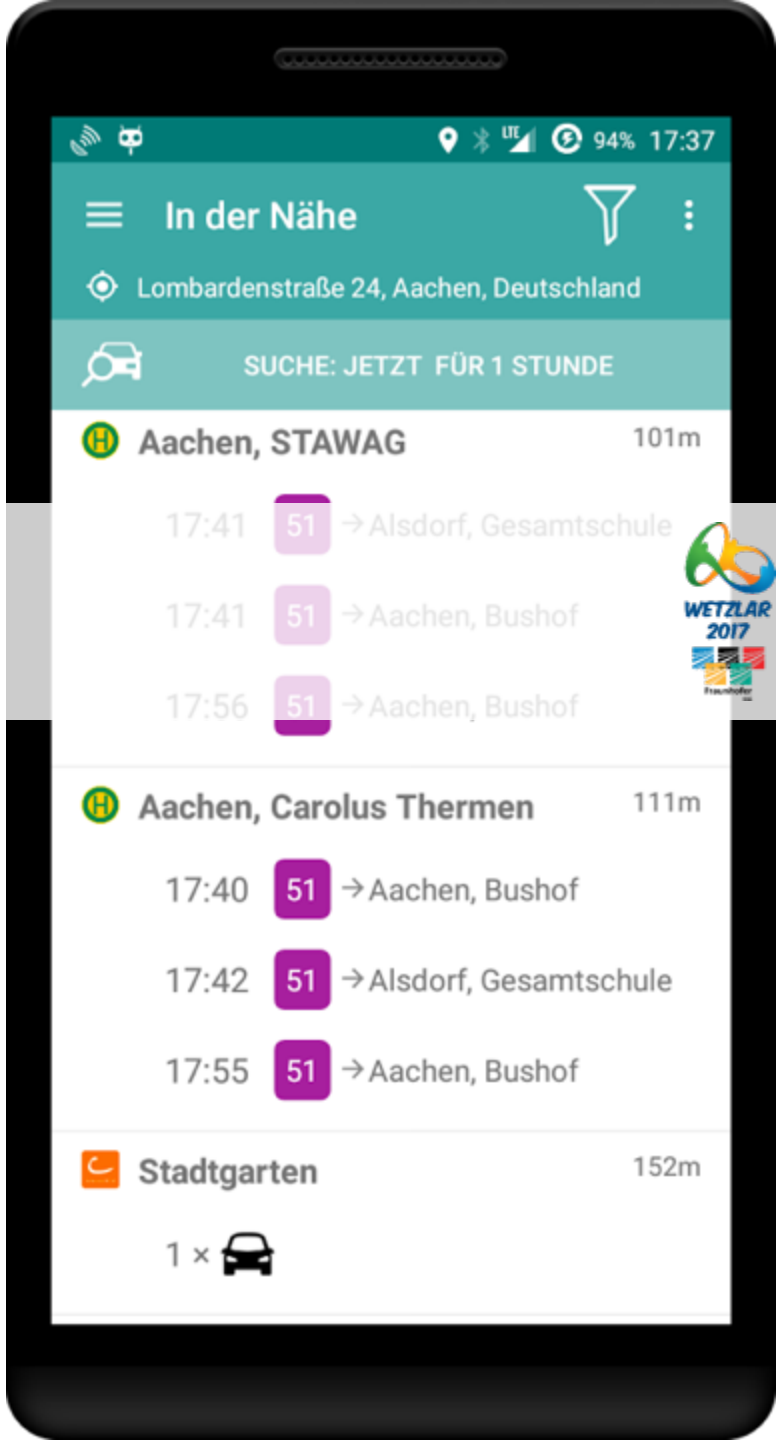
SOCIAL MEDIA

GAMIFICATION


98% 14:54
Details
VON Aachen, Lombardenstraße
NACH Düren Annakirmesplatz
ABFAHRT Heute, 14:53 Uhr
DAUER 1:05 Std.
KOSTEN 0 €
Start
ab 15:48
Aachen,
Bus 34
Richtung:
Aachen, Brand
an 16:08
Aachen, Bahnhof Rot...
ab 16:08
Fußweg
128m (1 Min)
an 16:09
Aachen-Rothe Erde
ab 16:21
Zug RE
Richtung:
Siegen

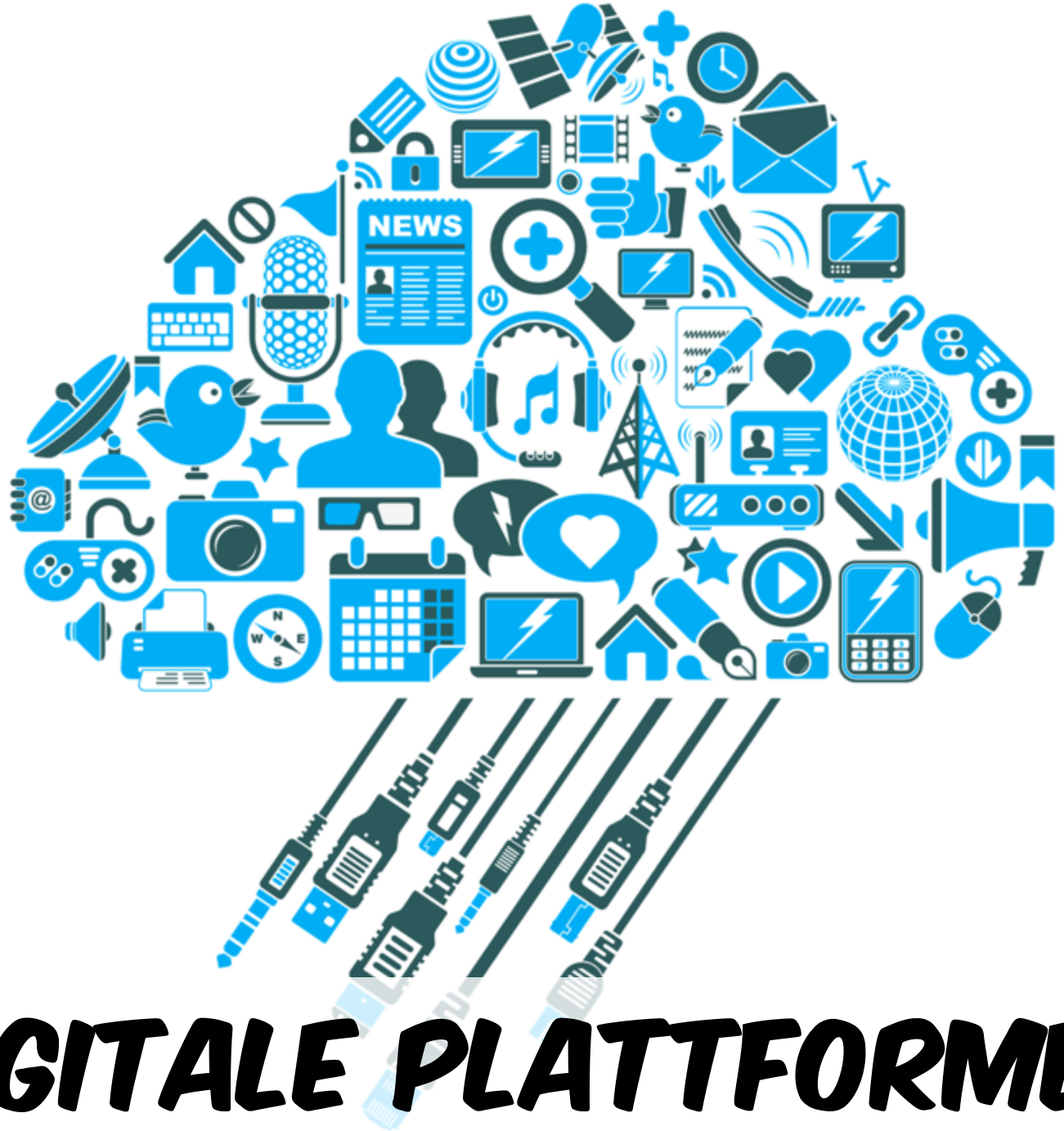

97% 14:52
Verbindungssuche
Jetzt
von
Aachen,
Lombardenstraße
Aachen
nach
Düren
Annakirmesplatz
Düren
Ortsfavoriten
regio iT
RWTH i5
ASEAG
VERBINDUNGEN SUCHEN

AACHEN


94% 17:37
In der Nähe
Lombardenstraße 24, Aachen, Deutschland
SUCHE: JETZT FÜR 1 STUNDE
Aachen, STAWAG
101m
17:41 51 →Alsdorf, Gesamtschule
17:41 51 →Aachen, Bushof
17:56 51 →Aachen, Bushof
Aachen, Carolus Thermen
111m
17:40 51 →Aachen, Bushof
17:42 51 →Alsdorf, Gesamtschule
17:55 51 →Aachen, Bushof
Stadtgarten
152m
1 ×
WETZLAR 2017

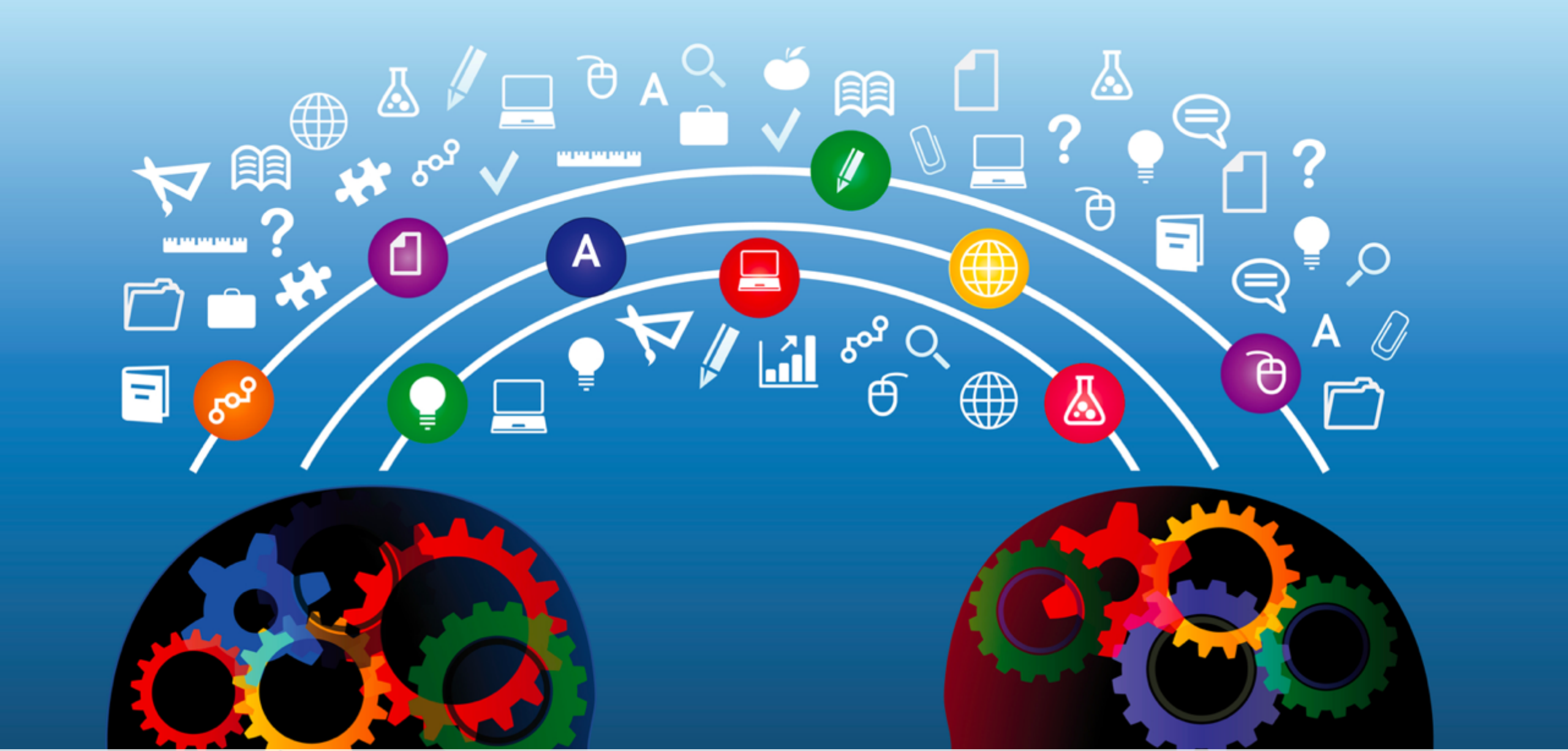
SHARING ECONOMY

WETZLAR 2017



DIGITALE PLATTFORMEN

WETZLAR 2017



CROWD

WETZLAR 2017

MOBILE

X AS A SERVICE

#media. #partnering. #entwicklung. #lehngericht Open Space Liquid democracy

AUGUSTUSBURG

+4937291 39550 info@augustusburg.de

Start Veranstaltungen #diStadt der Zukunft Schule & Kita Shop Unterkünfte, Gastro, Touren & Urlaub News Bürgerinfo & Kont

Aktuelle Angebote

Auszeit! Aktive Erholung in Augustusburg / 5 ÜN

294,00 €

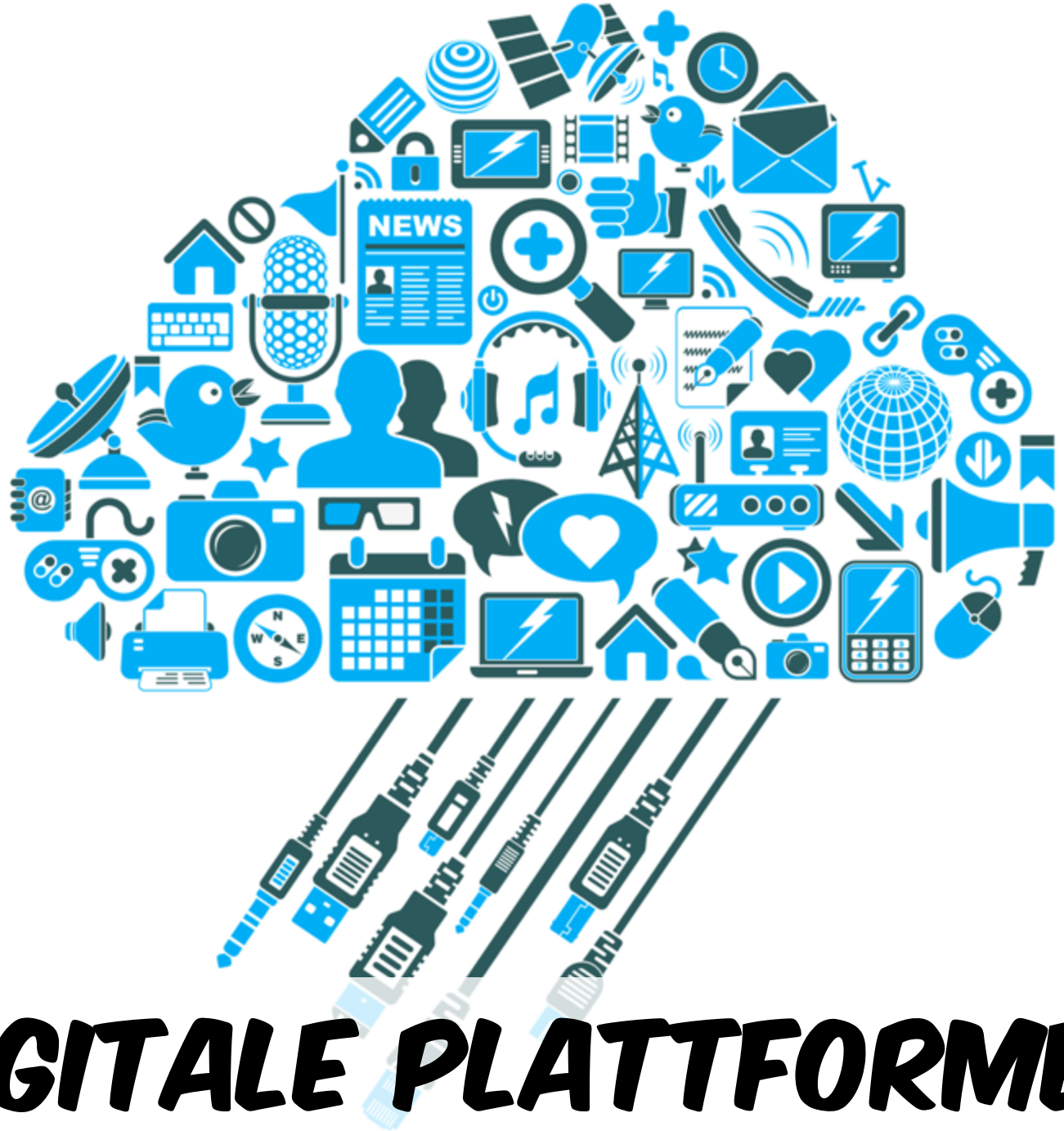
Biker-Spezial

94,00 €

Familienurlaub in Augustusburg

439,00 €

X AS A SERVICE



DIGITALE PLATTFORMEN

WETZLAR 2017

OLYMPISCHE SPORTARTEN

ZUKUNFT LAND
SMART ECOSYSTEMS
Internet der Dinge
CLOUD
BIG DATA
INDUSTRIE 4.0
SMART TRADE
Telemedizin
SMART HEALTH
SMART COMMUNICATION
Tele-Schulen
Tele-arbeitsplatz
Internet-shopping
SMART LOGISTICS
Liefer-drohnen
SMART ENERGY
PROCESSES SAFETY
ARCHITECTURE SECURITY
REQUIREMENTS UIX
LOGISTIKZENTRUM
CROWD-SOURCING
SMART RURAL AREAS
INTELIGENTES HAUS
SMART INDUSTRY
Losgröße 1
Fraunhofer IESE
Living Lab
Autonomes Fahren
SMART FARMING
VERNETZUNG IM AUFTRAG DER ZUKUNFT

Anwendungsdomänen

- Nahversorgung und Daseinsvorsorge
- Tourismus und Freizeit
- Medizin und Pflege
- Die digitale Verwaltung
- Arbeit und Wohnen
- Mobilität & Logistik
- Kommunikation
- Schule und Bildung

© Fraunhofer IESE

Fraunhofer IESE

OPTIMIERUNGSPOTENTIALE

KAFFEEPAUSE

TRENDS

TRENDS

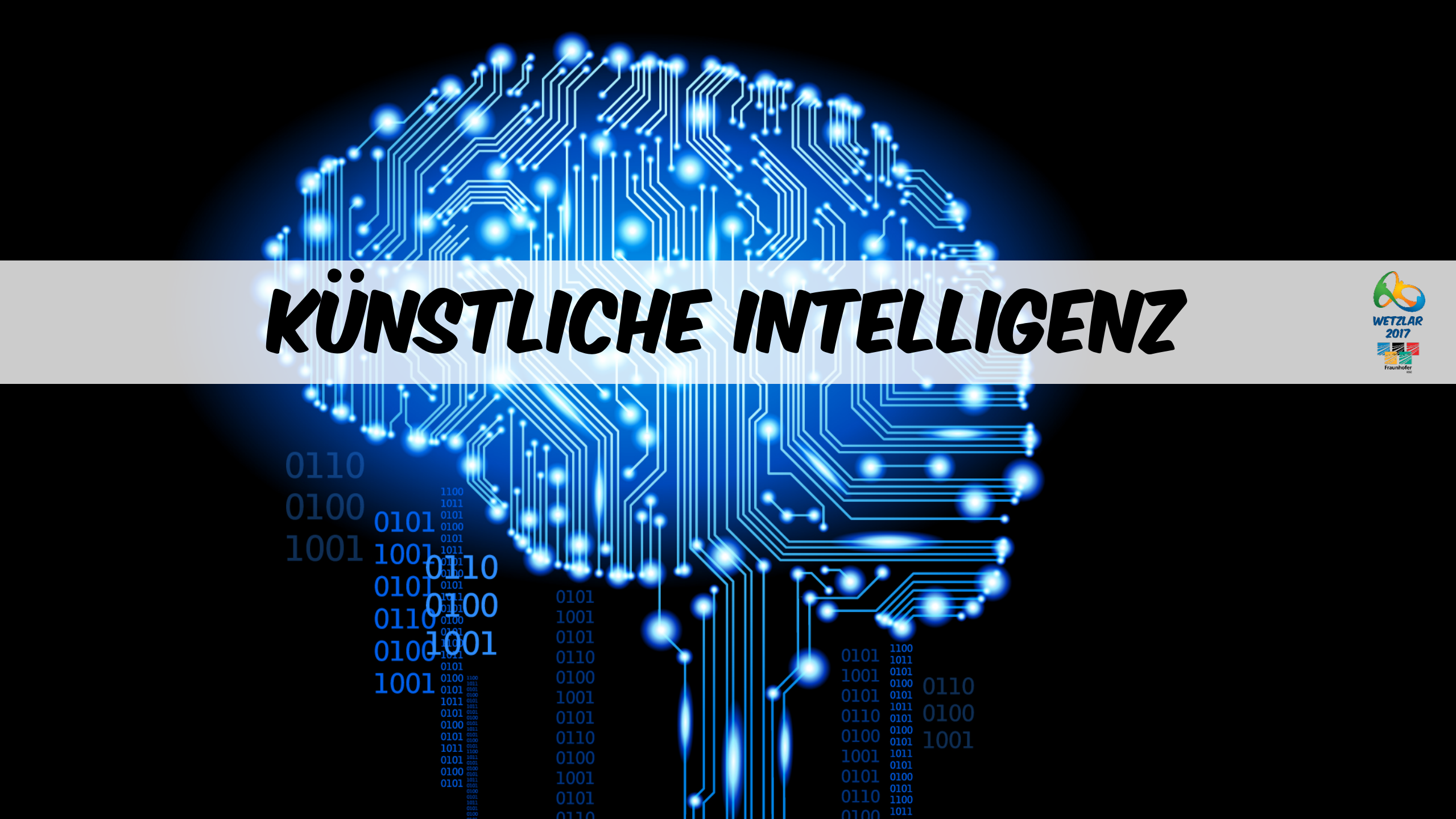
MOBILE MEGATRENDS

Fraunhofer
IESE

© Fraunhofer IESE

AUGMENTED REALITY

KÜNSTLICHE INTELLIGENZ



SHARING ECONOMY

WETZLAR 2017

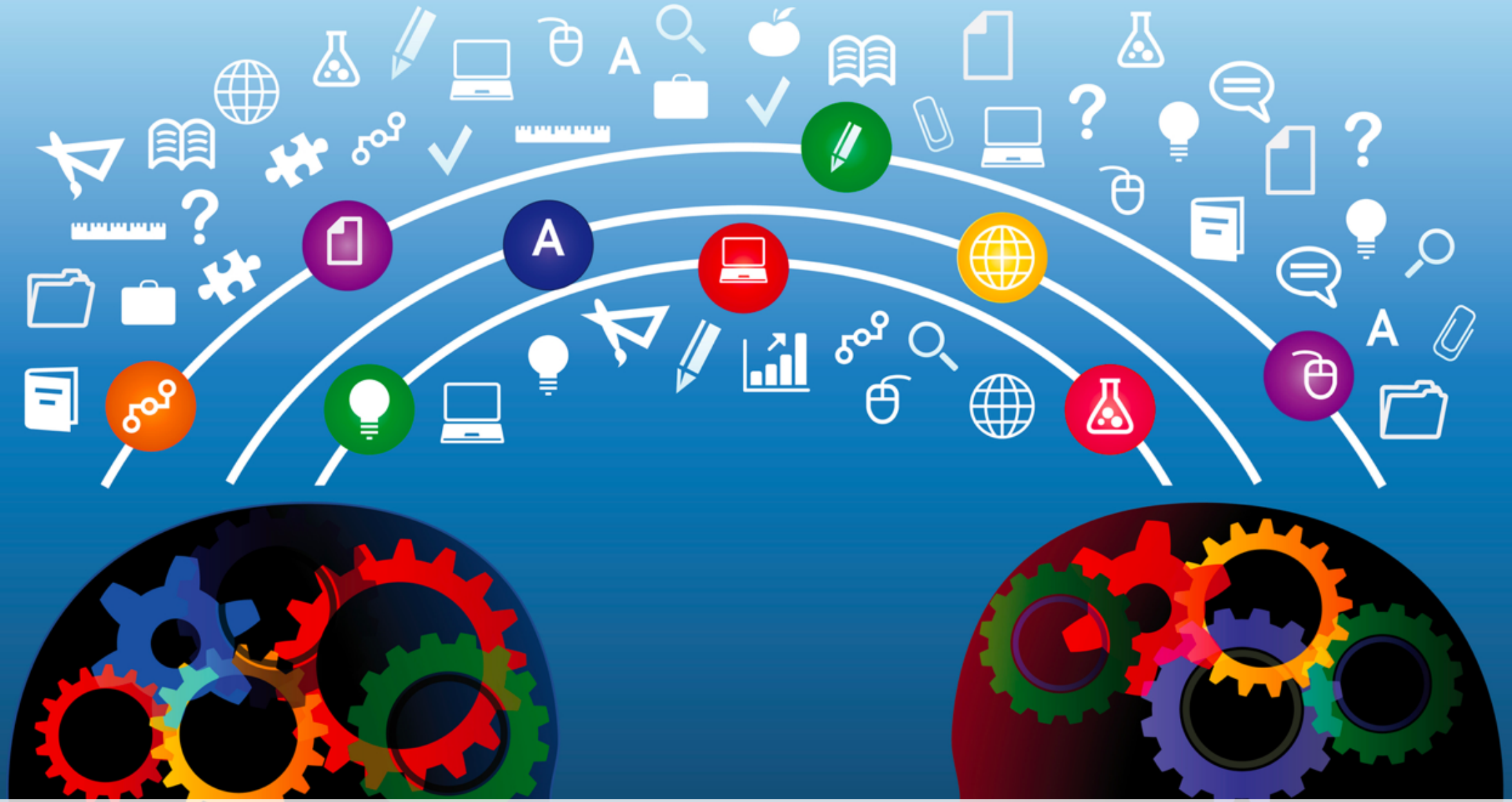
Fraunhofer

GIG ECONOMY

WETZLAR 2017
Fraunhofer

AUTONOMES FAHREN

AUTONOME SYSTEME



CROWD

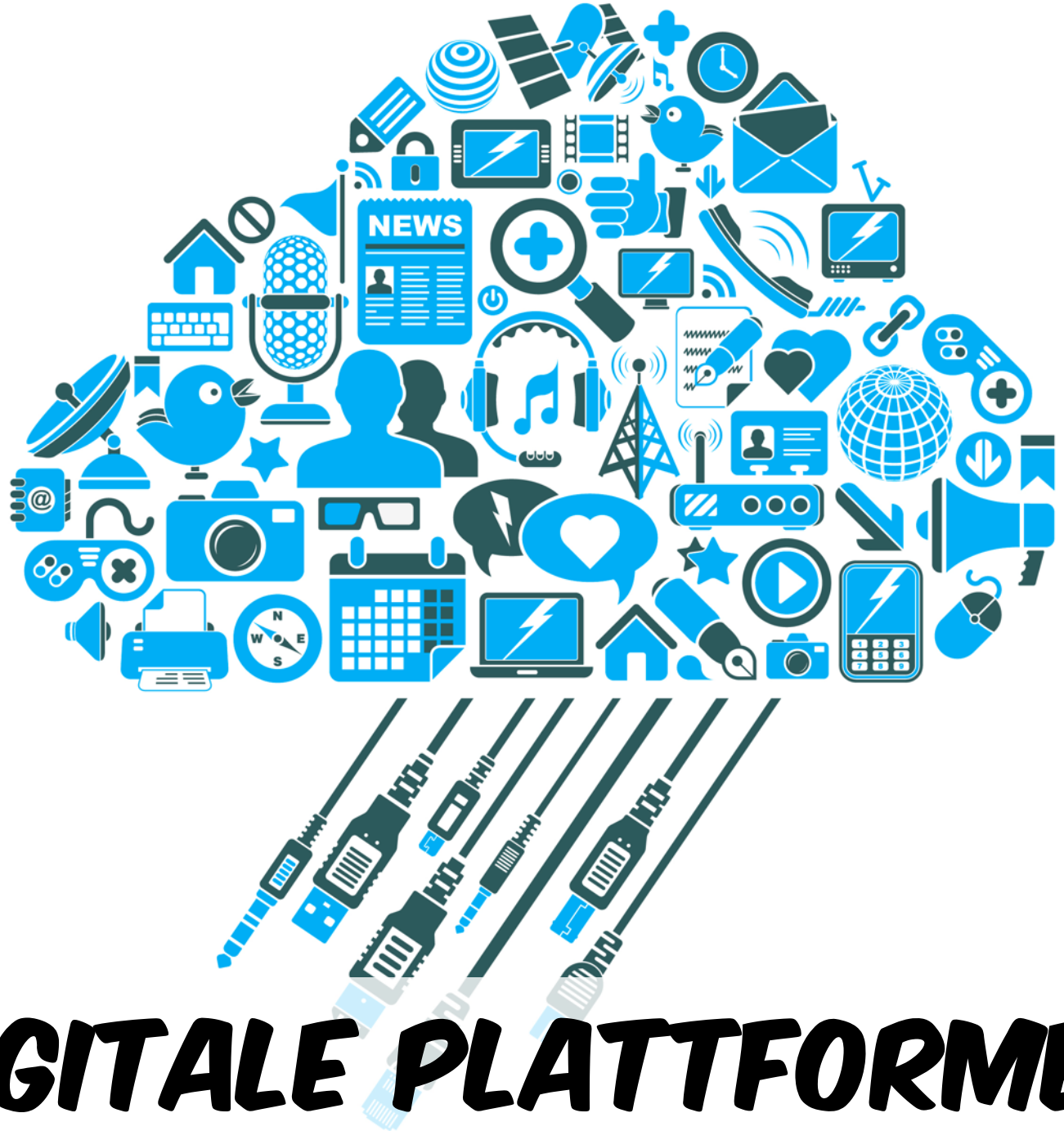
WETZLAR 2017

Fraunhofer

PERSONALISIERUNG

SOCIAL MEDIA

GAMIFICATION



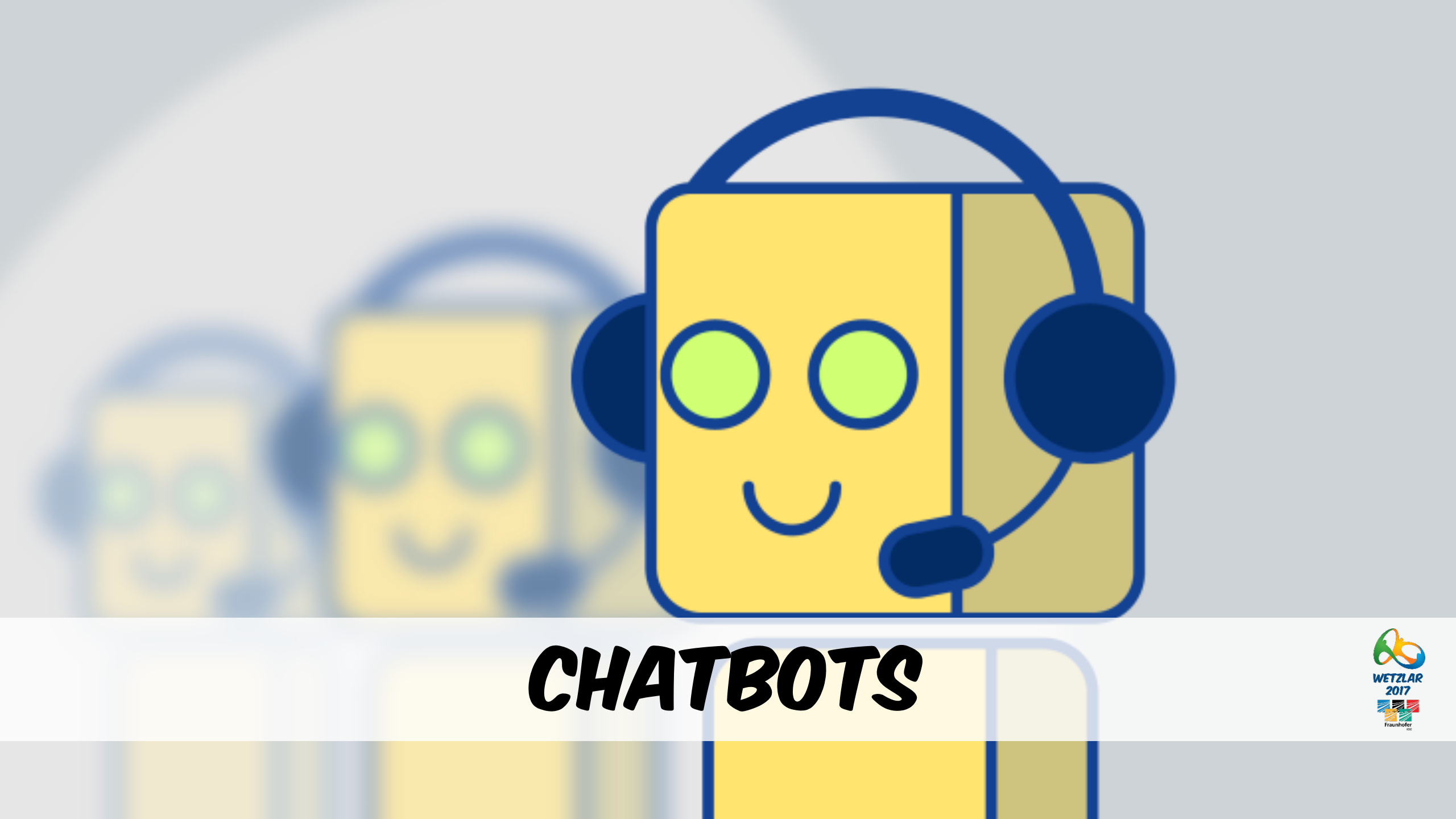
DIGITALE PLATTFORMEN

WETZLAR 2017

X AS A SERVICE

WETZLAR 2017

Fraunhofer



CHATBOTS

MOBILE PAYMENT

WETZLAR 2017
Fraunhofer

SMART THINGS

REGELÄNDERUNGEN

REGELÄNDERUNGEN

REGELÄNDERUNGEN

TRENDS & REGELÄNDERUNGEN

KREATIVITÄTS-PAUSE

Next Lecture

12.10.2017

© Fraunhofer IESE

Fraunhofer IESE

Steffen Hess

Research Program Manager

+49 631 / 6800-2275
steffen.hess@iese.fraunhofer.de

Fraunhofer IESE, Kaiserslautern