

renewing teaching & learning...

leveraging
mobility
for student
engagement

Dr William Rankin
Honors College Fellow
Abilene Christian University
NU 2012 Conference
Göteborg, Sverige • 18 Oct 2012

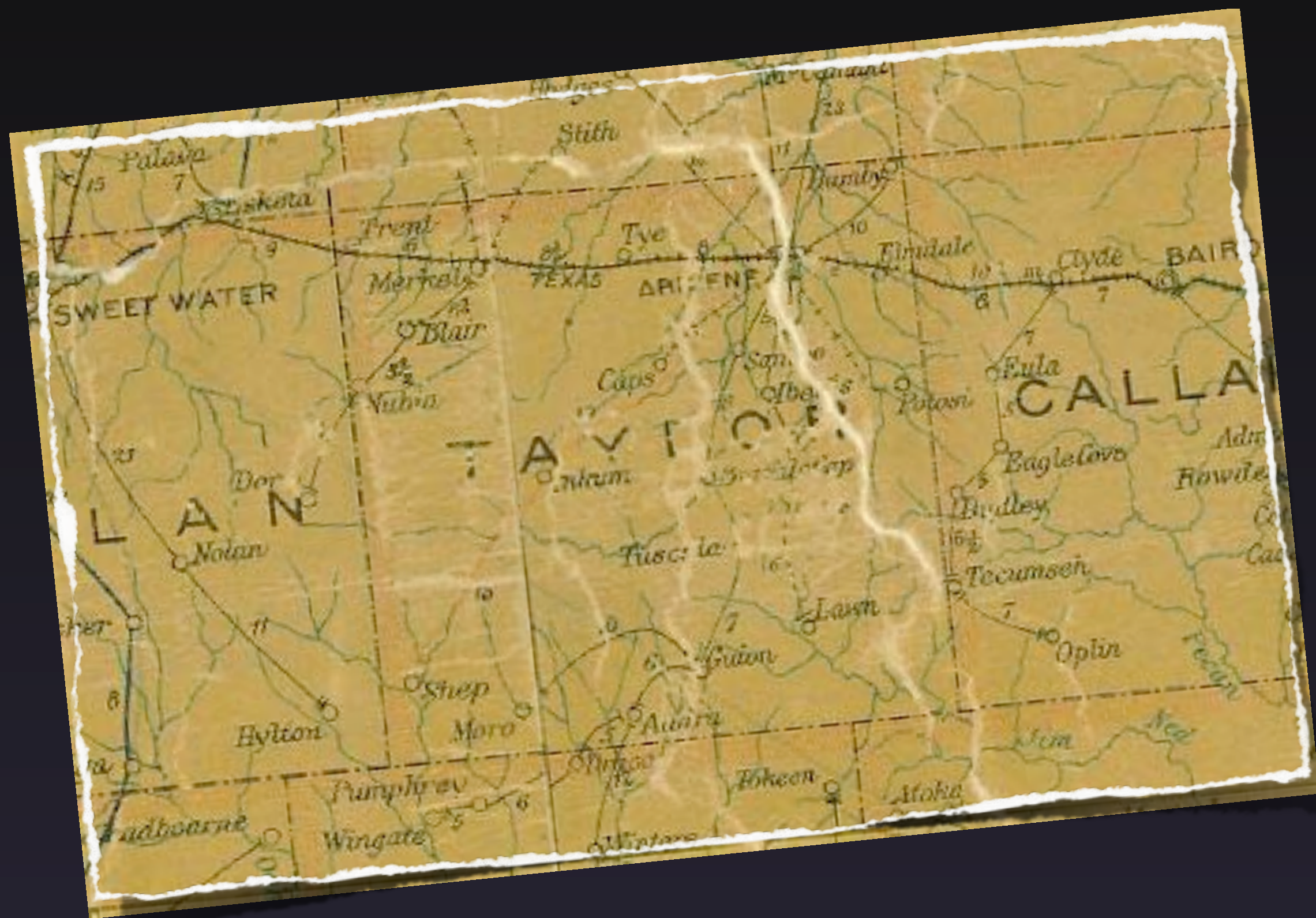




BIRDS EYE VIEW OF

ABILENE

TAYLOR COUNTY, TEXAS. 1883.



SCHEDULE No. 1.—POPULATION.

State TexasCounty TaylorTownship or other division of county Justice Precinct No 4

Name of incorporated city, town, or village, within the above-named division, _____

Name of Institution, _____

Supervisor's District No. 4

Sheet No. _____

Enumeration District No. 15119Enumerated by me on the 25

day of June, 1900,

John K. Fuller

Enumerator.

Ward of city, 8

LOCATION.				NAME of each person whose place of abode on June 1, 1900, was in this family. Enter surname first, then the given name and middle initial, if any. Include every person living on June 1, 1900. Omit children born since June 1, 1900.	RELATION. Relationship of each person to the head of the family.	PERSONAL DESCRIPTION.							NATIVITY.			CITIZENSHIP.			OCCUPATION, TRADE, OR PROFESSION of each person TEN YEARS of age and over.	EDUCATION.				OWNERSHIP OF HOME.							
IN CITIES.		House Number.	Number of dwelling house, in the order of visitation.			Number of family, in the order of visitation.	Color or race.	Sex.	DATE OF BIRTH.		Age at last birthday.	Whether single, married, widowed, or divorced.	Number of years married.	Mother of how many children.	Number of those children living.	Place of birth of this person.	Place of birth of Father of this person.	Place of birth of Mother of this person.		Year of immigration to the United States.	Number of years in the United States.	Naturalization.	Months not employed.	Attended school (in months).	Can read.	Can write.	Can speak English.	Owned or rented.	Owned free or mortgaged.	Farm or house.	Number of farm schedules.
Street.									Month.	Year.																					
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28		
				Henson, Emmonline	daughter	W F	F	Feb	1898	2	S				Texas	Alabama	Alabama				at sch	3	no	no	no						
				Letter A	daughter	M F	F	Oct	1895	4	S				Texas	Alabama	Alabama					no	no	no							
				James H	Son	M M	M	Aug	1892	4	S				Texas	Alabama	Alabama					no	no	no							
				Lola	daughter	W F	F	Aug	1897	3	S				Indian Territory	Alabama	Alabama					no	no	no							
319	331			Emmitt L	Son	M M	M	Jan	1898	2	S				Texas	Alabama	Alabama														
309	320			Calcutt Robert	Head	M M	M	Aug	1867	32	M	10			Texas	Louisiana	Tennessee				Farmer	no	no	no				O M F	284		
				Emmer L	wife	M F	F	Oct	1878	21	M	10	6	6	Texas	Georgia	Alabama					no	no	no							
				Martha E	daughter	M F	F	Sept	1890	9	S				Texas	Texas	Texas				at sch	3	no	no	no						
				Hessie M	daughter	M F	F	May	1892	8	S				Texas	Texas	Texas				at sch	3	no	no	no						
				Mary E	daughter	M F	F	Mar	1894	6	S				Texas	Texas	Texas				at sch	3	no	no	no						
				Charles	Son	M M	M	Jan	1896	4	S				Texas	Texas	Texas					no	no	no							
				Letter A	Son	M M	M	Dec	1897	2	S				Texas	Texas	Texas					no	no	no							
320	332			Buster L	Son	M M	M	Aug	1899	1	S				Texas	Texas	Texas														
316	301			Whitaker James	Head	M M	M	Aug	1873	26	M	10			Alabama	North Carolina	Georgia				Farmer	no	no	no				O F F	295		
				Sarah E	wife	M F	F	Jan	1877	23	M	10	5	9	Mississippi	South Carolina	North Carolina					no	no	no							
333				Frank C	Son	M M	M	Aug	1897	2	S				Texas	Alabama	Mississippi				Farmer	no	no	no				F	296		
302				Whitaker James	Head	M M	M	Oct	1872	27	M	4			Texas	Alabama	Mississippi				Farmer	no	no	no				H			
				Miriam	wife	M F	F	Dec	1871	28	M	4	2	2	Texas	Tennessee	Alabama					no	no	no							
				Benjamin D	Son	M M	M	Dec	1897	2	S				Texas	Texas	Texas					no	no	no							
				Isaac M	Son	M M	M	Dec	1898	1	S				Texas	Texas	Texas														
				Edward J	daughter	M M	F	July	1896	3	S				Texas	Alabama	Mississippi				Farmer	no	no	no							
311	323			Allen John L	Head	M M	M	Dec	1856	43	M	20			Texas	Missouri	Georgia				Farmer	no	no	no				O M F	293		
				Ellen	wife	M F	F	Jan	1867	33	M	20	8	5	Texas	Alabama	Georgia					no	no	no							

connection

connection

┌ structural ┐

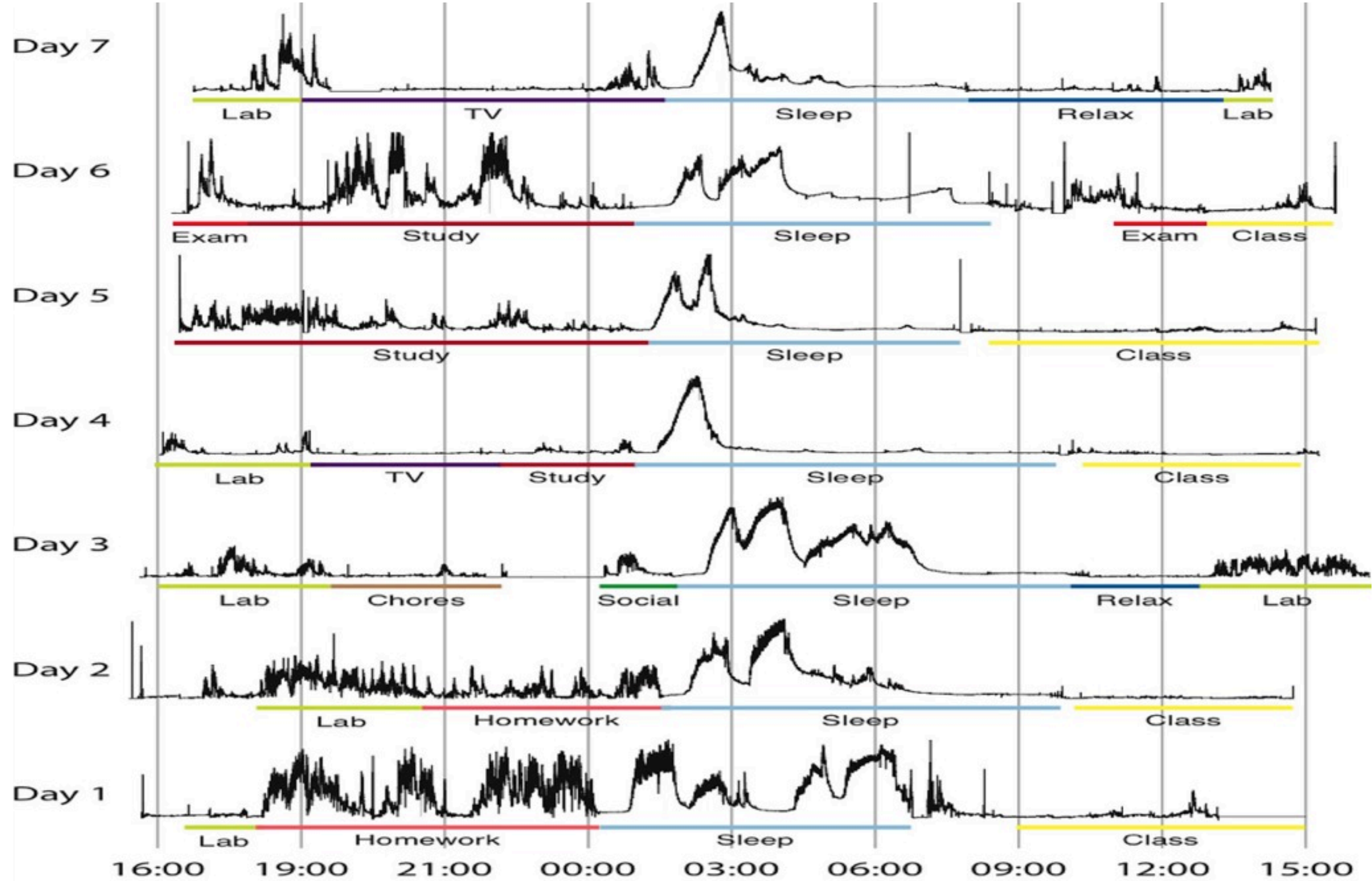
┌ social ┐

┌ cultural ┐



A blue-tinted photograph of an empty classroom. Rows of white rectangular desks and black chairs are arranged in a grid pattern, receding into the background. The lighting is soft, and the overall atmosphere is quiet and contemplative. The text "are our classrooms offering productive connections?" is overlaid in the center in a bold, yellow font with a dark outline.

**are our classrooms offering
productive connections?**



Marshall McLuhan

The Gutenberg Galaxy 1962

Understanding Media 1964

The Medium is the Message 1967



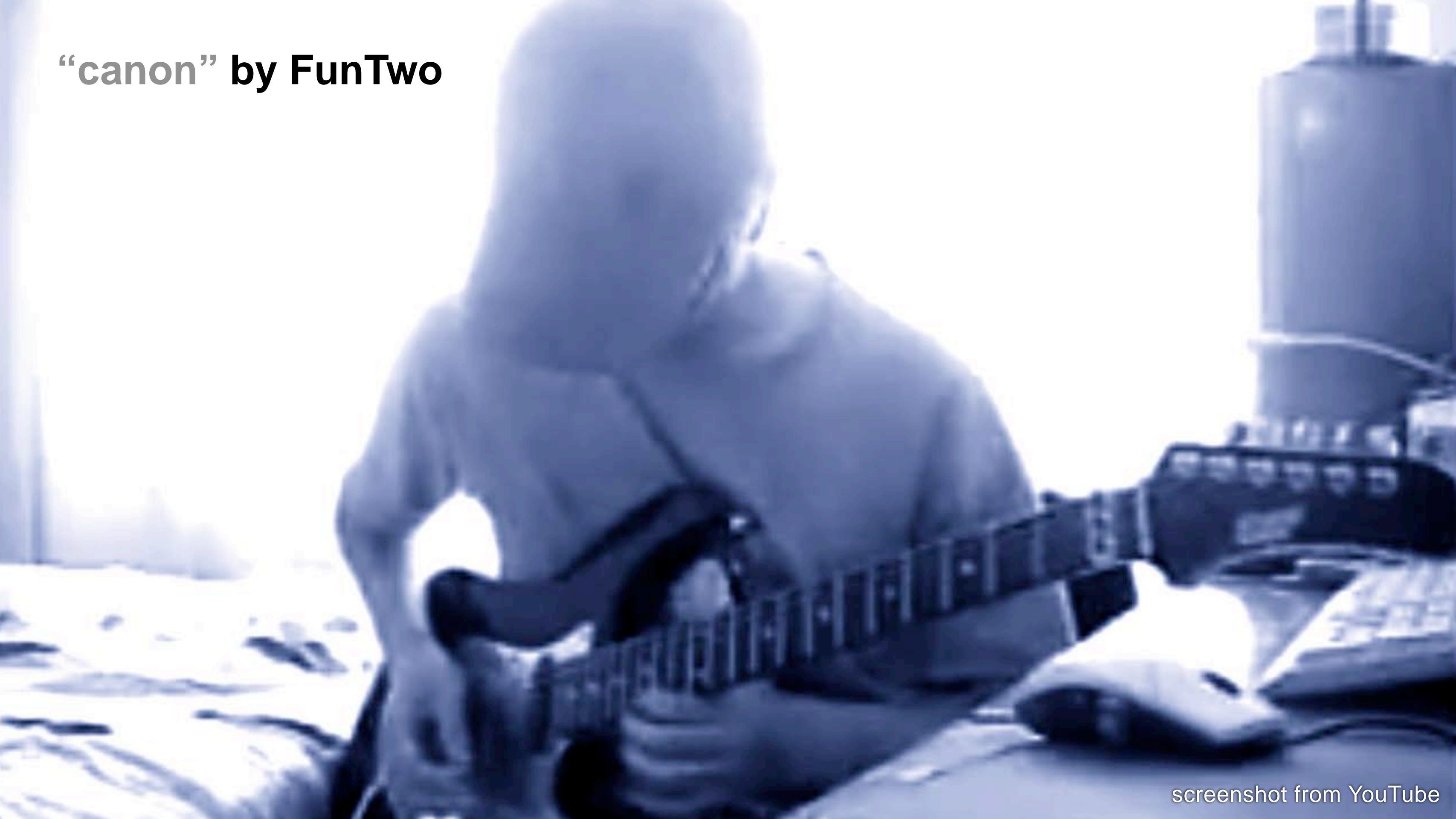
marshall mcluhan

technologies are
extensions of the self

“We’re always living way
ahead of our thinking...”



“canon” by FunTwo



screenshot from YouTube

Grand Piano

the new production studios



media libraries

Library of Congress

media libraries

Instagram

Library of
Congress

media libraries



Flickr



Instagram

media libraries

The image shows the Facebook logo, which consists of the word "Facebook" in a blue, sans-serif font. The logo is centered within a light blue rectangular area. In the bottom-left corner of this area, there is a small, dark blue square containing the word "Play" in white text.

media libraries

140,000,000,000

Facebook

+1,000,000%

pompeii



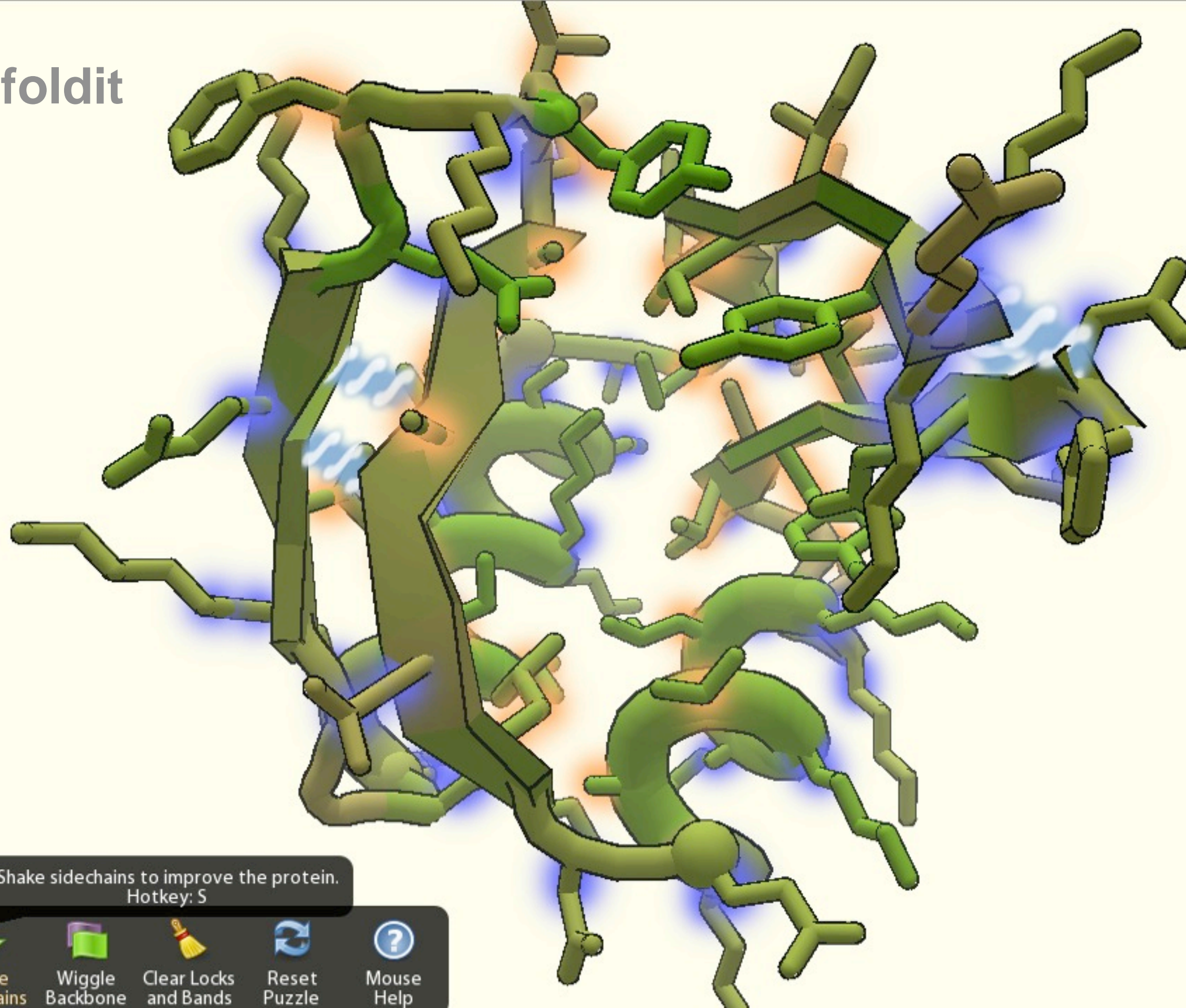
photo courtesy of Wikimedia

pompeii



photo courtesy of Wikimedia

foldit



Rank: 17

Score: 9092

48: Pro Peptide

▼ Group Competition

#	Group Name	Score
1	The Lone Folder	9388
2	Street Smarts	9367
3	Illinois	9303
4	Berkelev	9255

▼ Player Competition

16	psen	-	9098
17	kathleen	9092	9092
18	versat82	-	9091
19	darktorres	-	9081
20	ccarrico	9032	9066
21	mbjorkegren	-	9048
22	sslickerson	-	9038

► Chat

Shake sidechains to improve the protein.
Hotkey: S



Shake
Sidechains



Wiggle
Backbone



Clear Locks
and Bands



Reset
Puzzle



Mouse
Help

nature
structural &
molecular biology

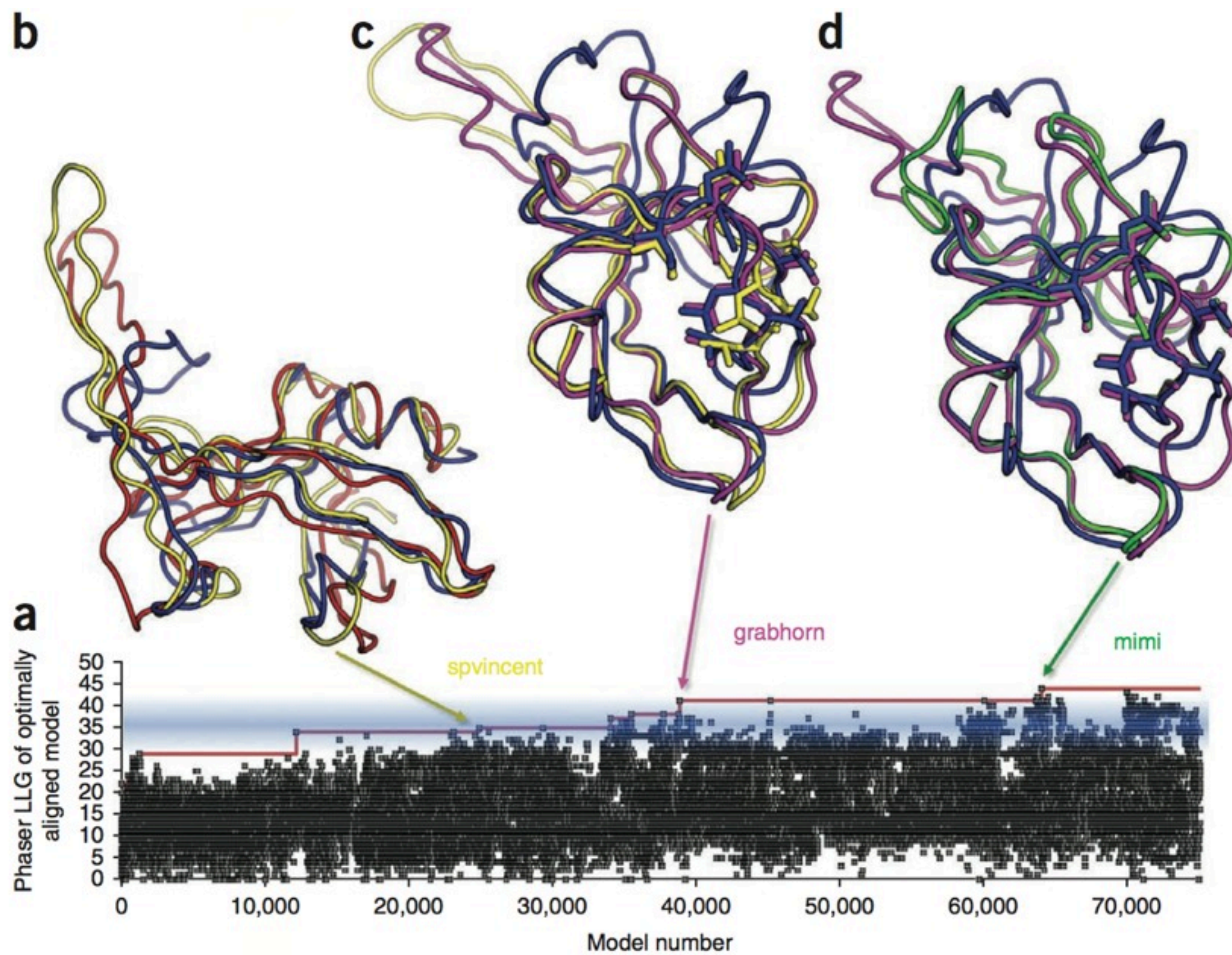
Crystal structure of a monomeric retroviral protease solved by protein folding game players

Firas Khatib¹, Frank DiMaio¹, Foldit Contenders Group, Foldit Void Crushers Group, Seth Cooper², Maciej Kazmierczyk³, Mirosław Gilski^{3,4}, Szymon Krzywda³, Helena Zabranska⁵, Iva Pichova⁵, James Thompson¹, Zoran Popović², Mariusz Jaskolski^{3,4} & David Baker^{1,6}

Following the failure of a wide range of attempts to solve the crystal structure of M-PMV retroviral protease by molecular replacement, we challenged players of the protein folding game Foldit to produce accurate models of the protein. Remarkably, Foldit players were able to generate models of sufficient quality for molecular replacement and subsequent structure refinement. These insights for

Structure Prediction (CASP) experiment was an ideal venue in which to test this. CASP is a biennial experiment in protein structure prediction methods in which the amino acid sequences of structures that are close to being experimentally determined—referred to as CASP targets—are posted to allow groups from around the world to predict the native structure (<http://predictioncenter.org/casp9/>). Each group taking part in CASP is allowed to submit five different predictions for each sequence. Foldit participated as an independent group during CASP9 and made predictions for the targets with fewer than 165 residues that the CASP organizers did not indicate as oligomeric. For targets with homologs of known structure—the Template-Based Modeling category—Foldit players were given different alignments to templates predicted by the HHpred server³ via the new Alignment Tool. Despite these new additions to the game, the performance of Foldit players over all CASP9 Template-Based Modeling targets was not as good as those of the best-performing methods, which made better use of information from homologous structures; extensive energy minimization used by Foldit players tended to perturb peripheral portions of the conformation present in homologs.

curing AIDS...



communal creation...

communal creation...



participative authority...



participative authority...

more access yields
more participation



participative authority...

1
more access yields
more participation

2
more participation yields
more custodianship



participative authority...

1
more access yields
more participation

2
more participation yields
more custodianship

3
more custodianship
yields more diversity



participative authority...

1
more access yields
more participation

4
more diversity
yields more
access

3
more custodianship
yields more diversity

2
more participation yields
more custodianship





1
access
partic

Participative custodial

3
custodia
s more div

4
more divers
yields more
access

a widening gap...



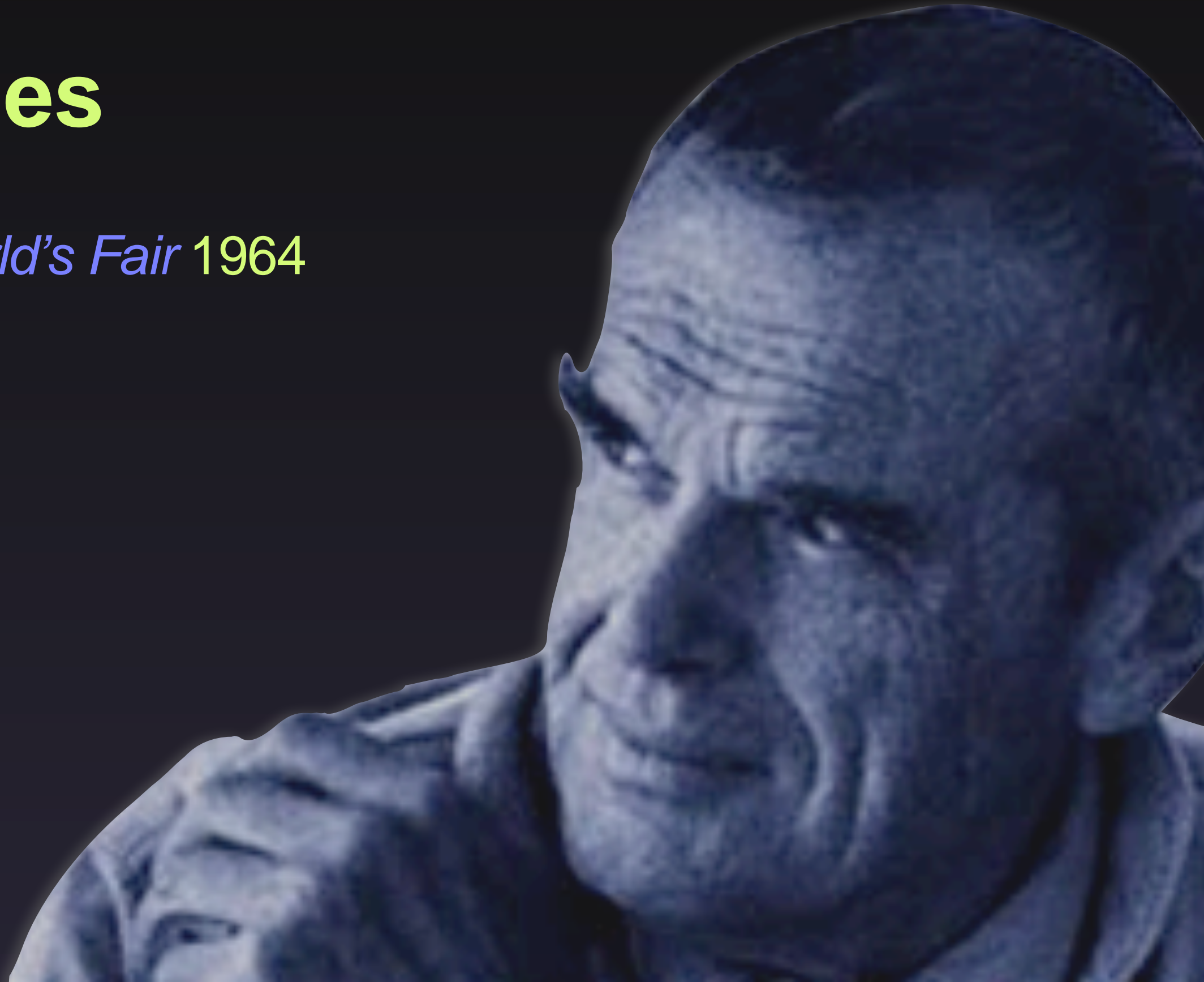
photo courtesy of the US Geological Survey

Charles Eames

Eames Chair 1946

IBM Pavilion, NY World's Fair 1964

"Powers of Ten" 1977



charles eames



charles eames

“Design is a plan for arranging elements in such a way as best to accomplish a particular purpose...”

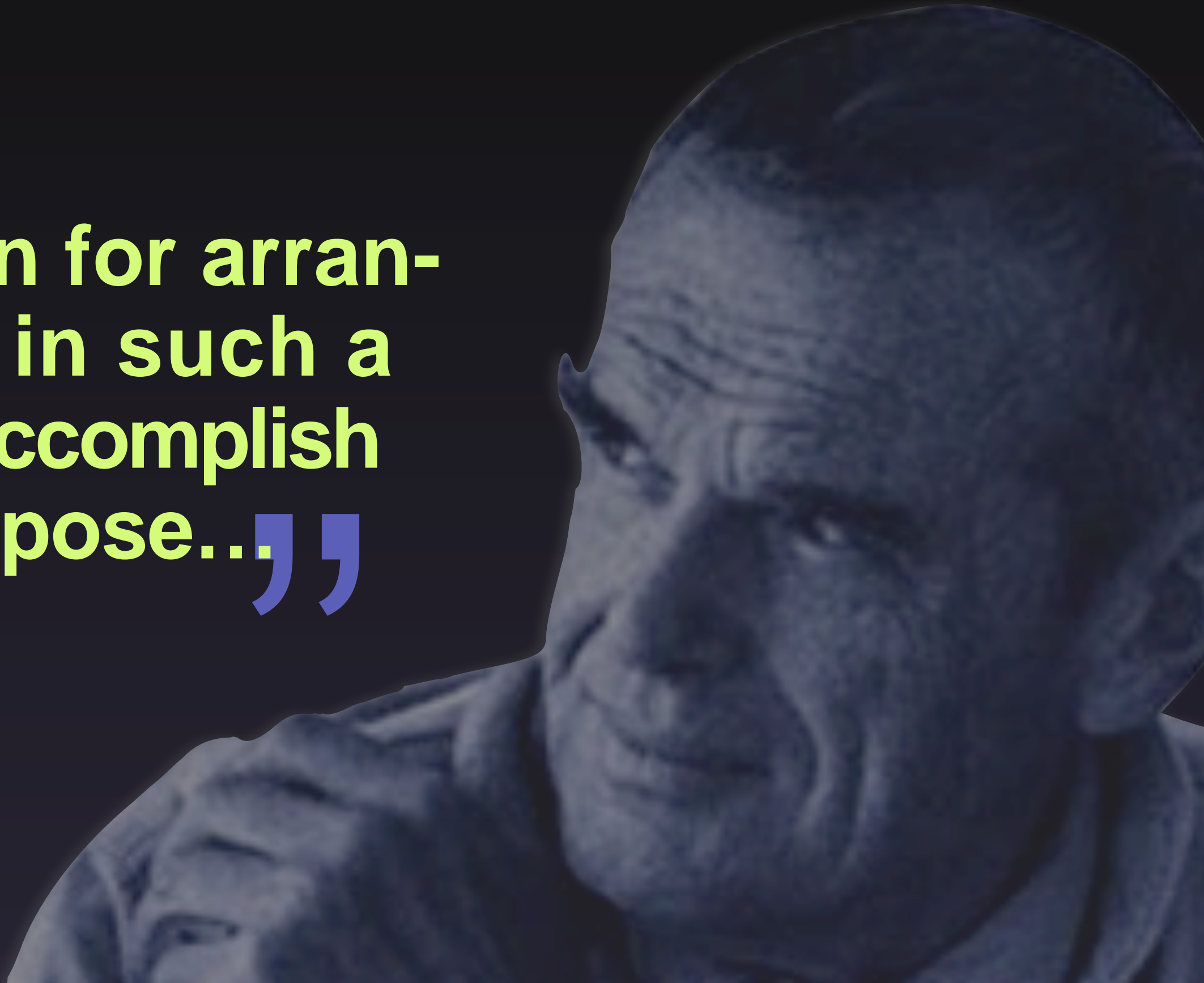




photo by Emory Maiden

A blue-tinted photograph of an empty classroom. Rows of white plastic chairs with black metal frames and attached wooden desks are visible, receding into the background. The text "isolated spaces designed for rhetorical questions" is overlaid in the center in a bold, yellow, sans-serif font.

**isolated spaces designed
for rhetorical questions**

photo by Emory Maiden

$$t = -10$$

$$\frac{4}{t(t+2)}$$

$$\boxed{\frac{-3t-14}{t(t+2)}}$$

$$\frac{x(x+5)}{x(x-5)} = \boxed{\frac{2}{5-x}}$$

$$17. 2\sqrt{5} + 3$$

$$19. 8\sqrt{} \quad 8\bar{x} +$$

$$21. \quad 2m^2 - 5\sqrt{3}$$

$$-\sqrt[3]{54} + 2\sqrt[3]{16}$$

$$25. 2\sqrt[3]{27x} - 2\sqrt[3]{8x}$$

$$27. \sqrt[3]{x^2y} - \sqrt[3]{8x^2y}$$

$$29. 3x\sqrt[3]{xy^2} - 2\sqrt[3]{8x}$$

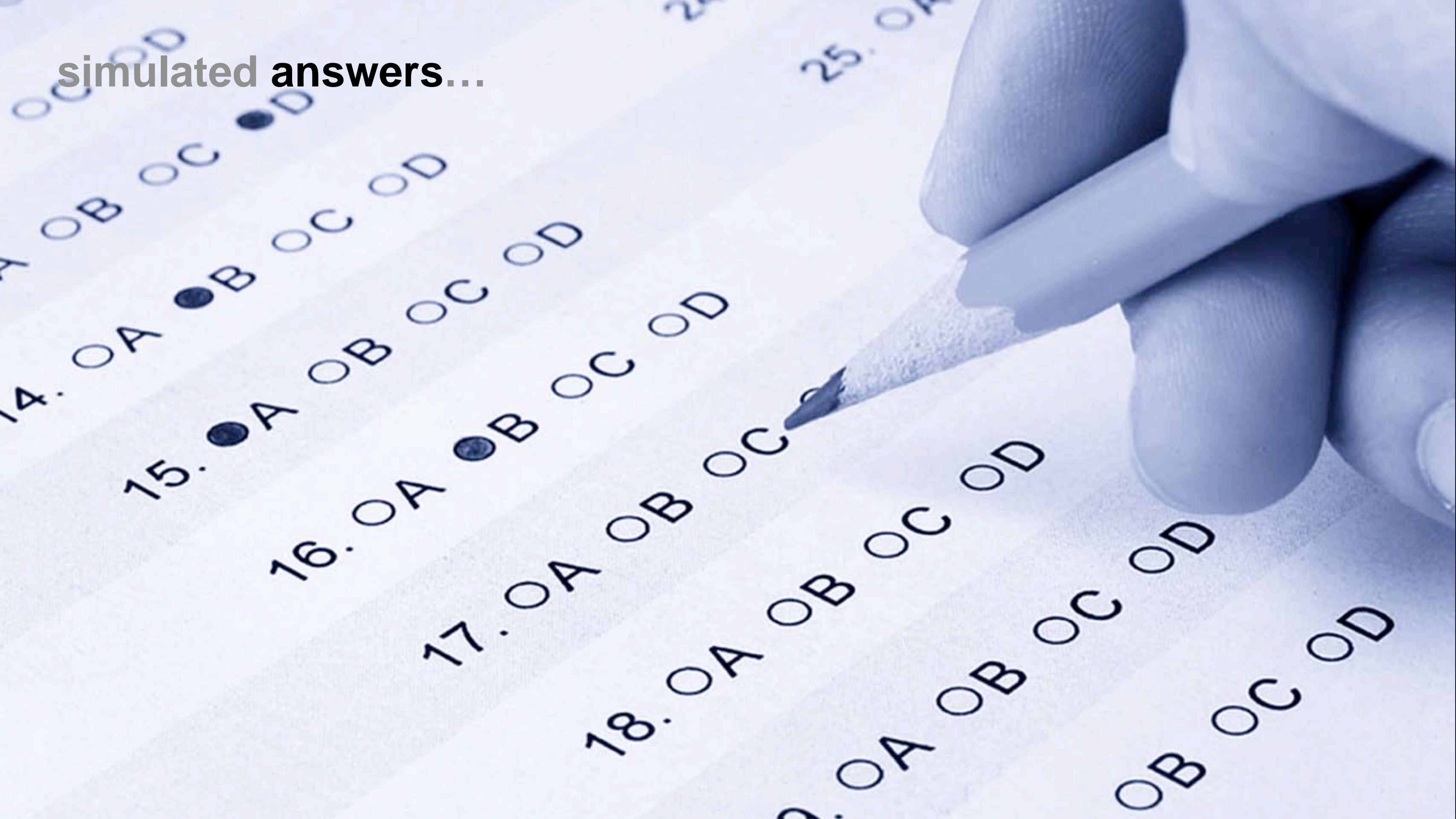
$$31. 5\sqrt[4]{32} + 3\sqrt[4]{162}$$

$$33. 3\sqrt[4]{x^5y} - 2x\sqrt[4]{xy}$$

$$35. 2\sqrt[4]{32a^3} + 5\sqrt[4]{2a}$$

$$7. \sqrt[3]{64xy^2} + \sqrt[3]{27x}$$

simulated answers...



those questions presume
a **static world...**

seth godin



seth godin

“Never again is someone going to pay you to give them answers they can look up online. They’ll only pay you to solve problems that don’t yet have answers.”



classroom structure

control
&
isolation



the standard model...

my
desk



the standard model...

**their
desk**



photo by Francis Eatherington





5,000 hours

**50 hours ×
25 students ×
4 courses**

banning tools



a changing formula...

ingenuity

a changing formula...

research collaboration

$$\left(\frac{r + c}{x} \right) t = \text{ingenuity}$$

context technology

a changing formula...

research collaboration

$$\left(\frac{r + c}{x} \right) t = \text{cheating}$$

context technology

a changing formula...

research

collaboration

$$\left(\frac{r + c}{x} \right) t =$$

context technology

antiquated paradigms...



the future...

does portability

the future...

equal mobility?

portability v. mobility...



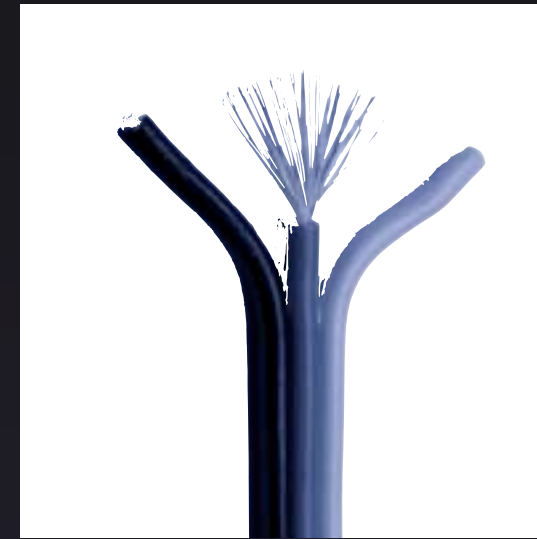
carriable



unplugged



long-term



unwired



unsituated

antiquated futures



photo from Wikimedia

antiquated futures

mobile learning? empowerment?

Frederick W. Taylor

Principles of Scientific Management 1911





expectations for students...

expectations for students...

attendance
compliance
uniformity

monocultures...



the cavendish banana

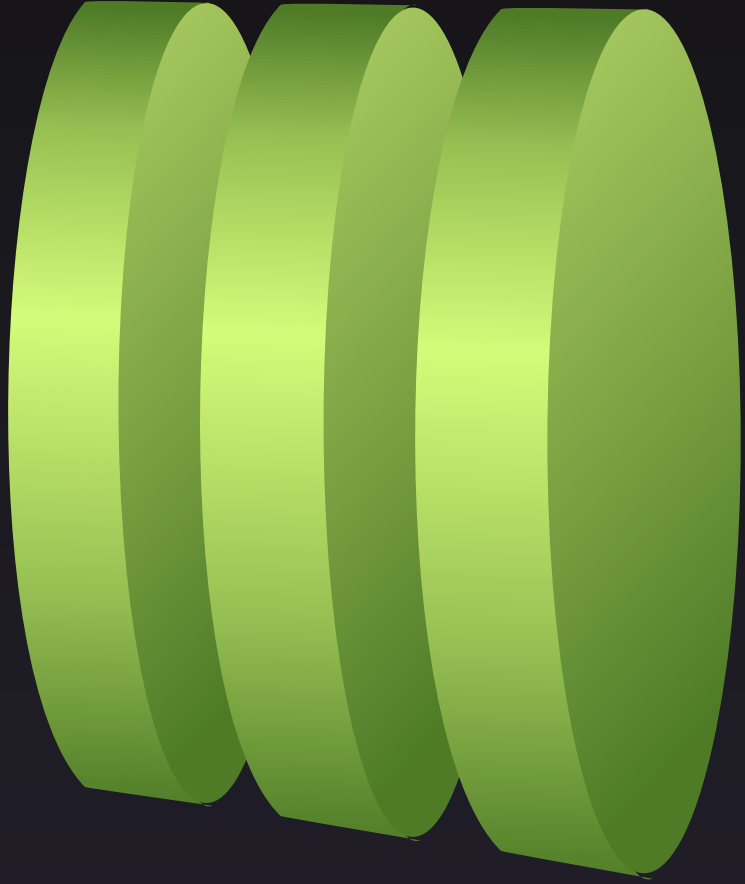
why 1-to-1?

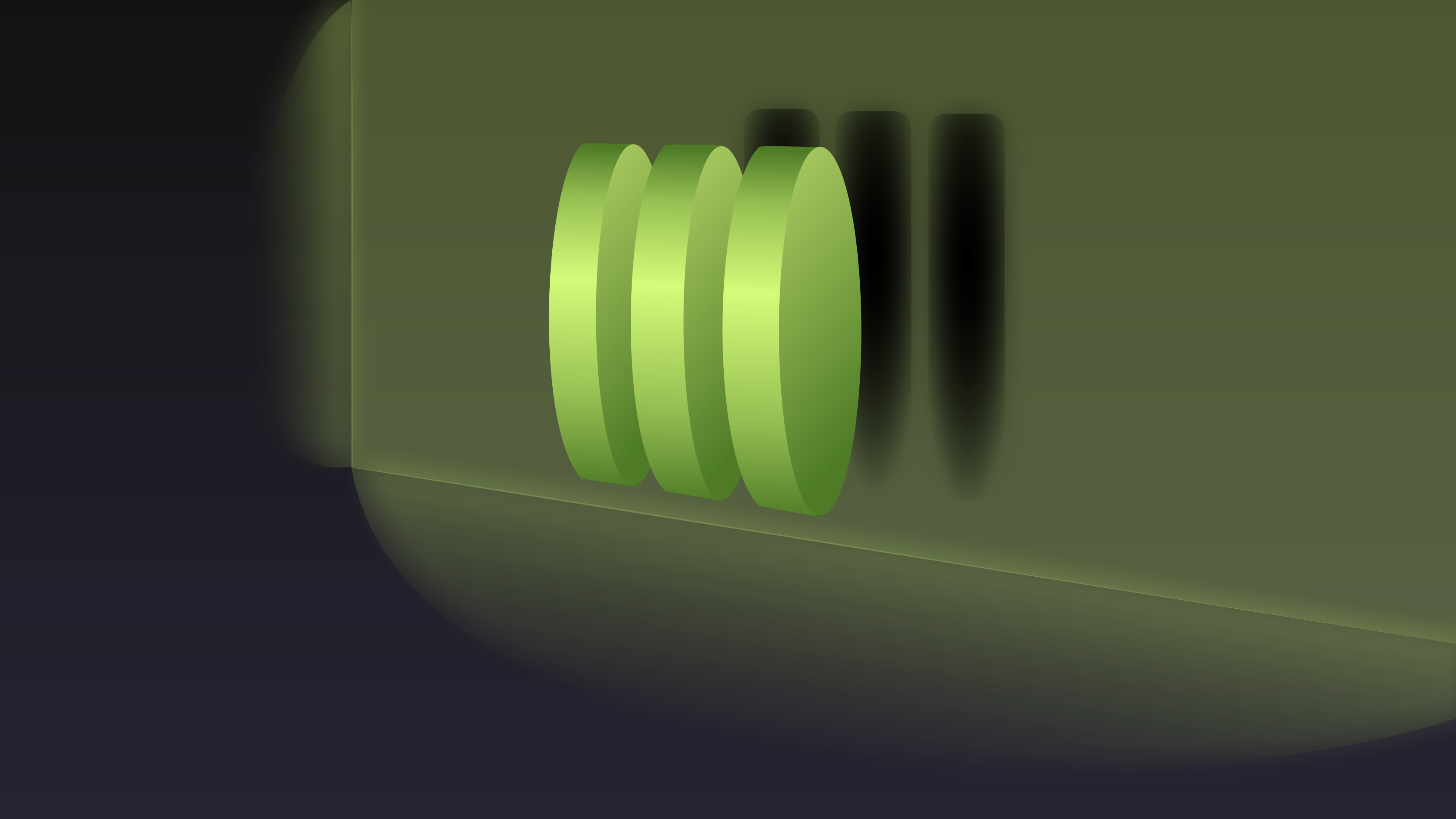
mobile futures



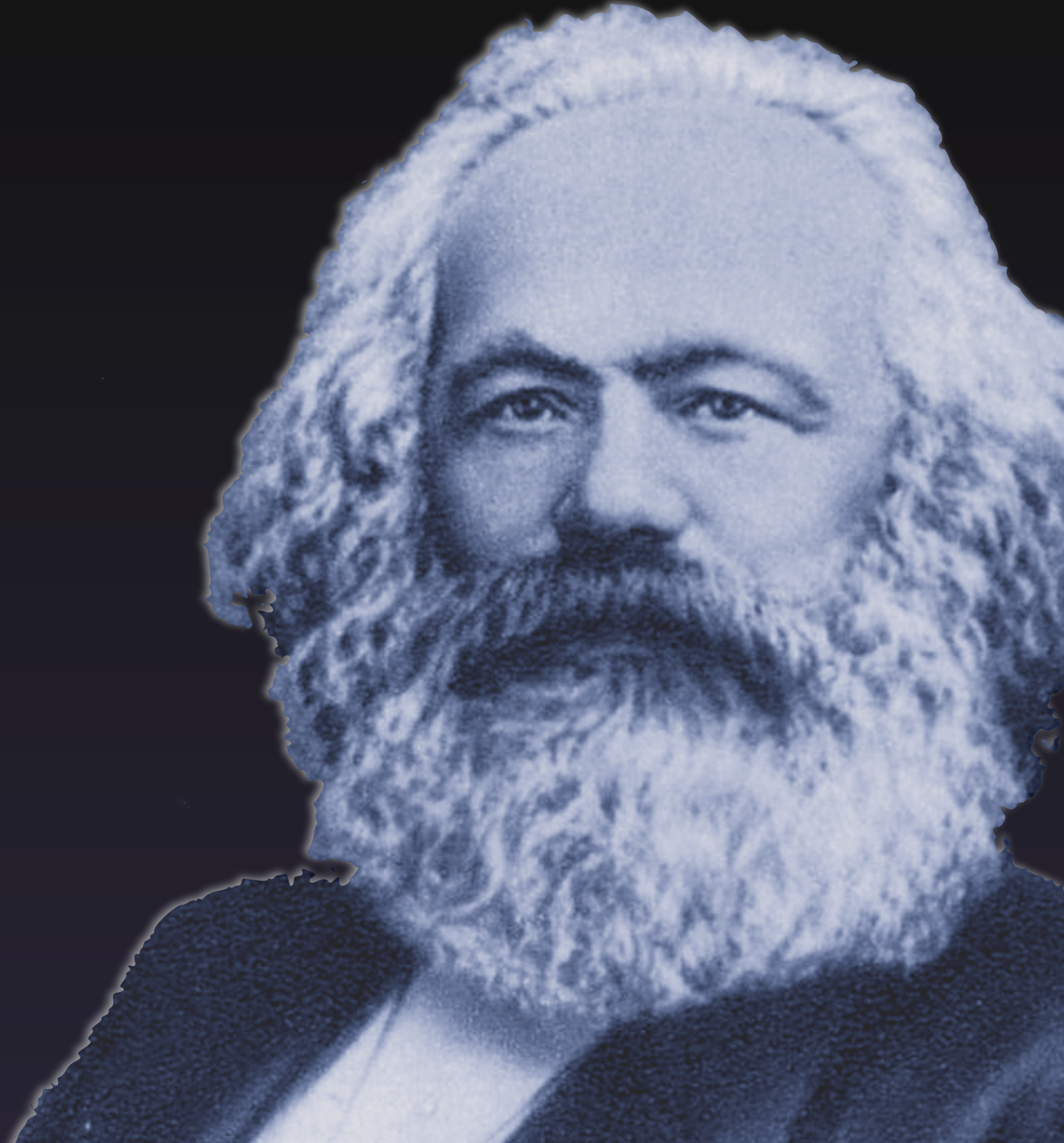
more facets....





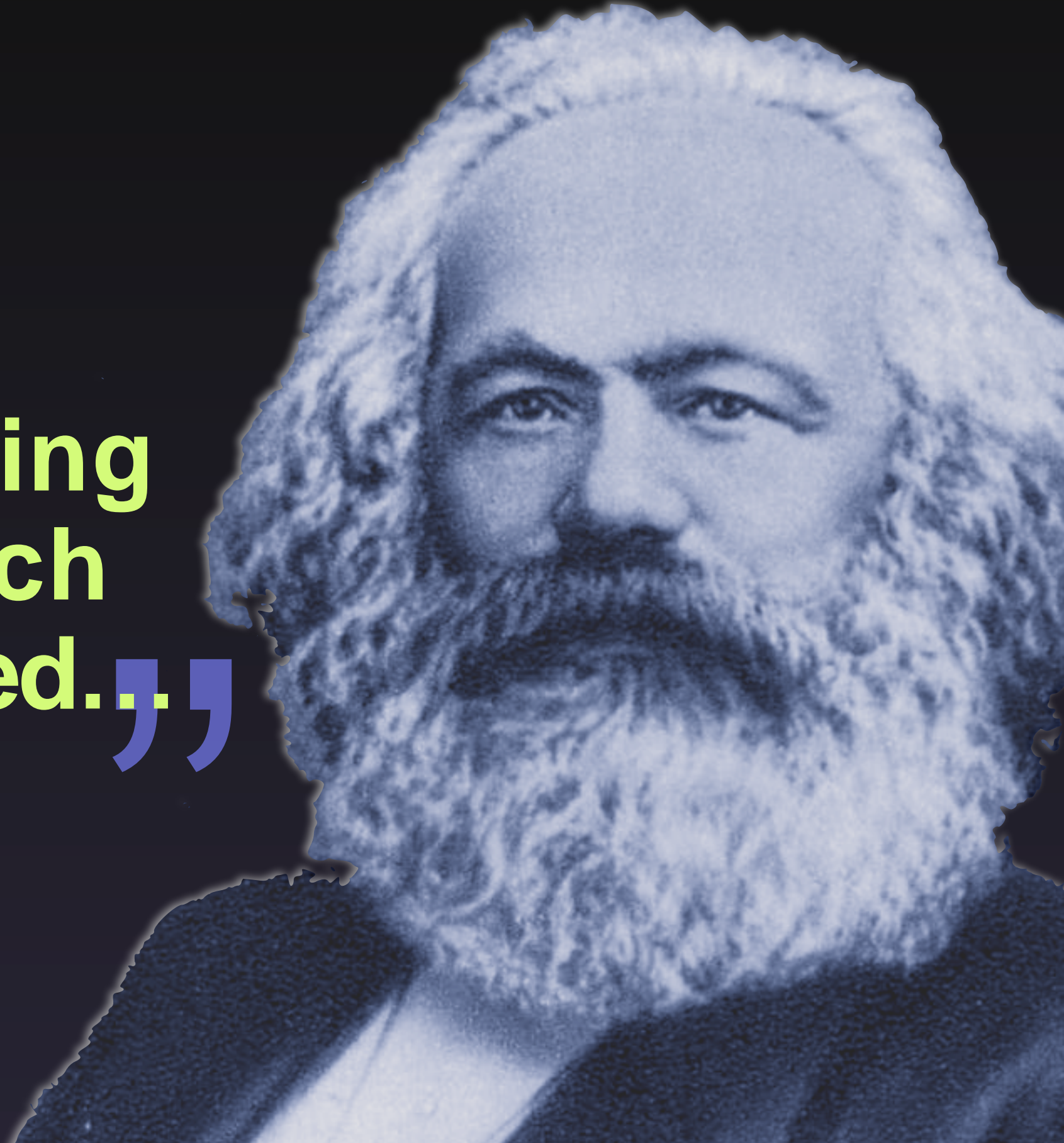


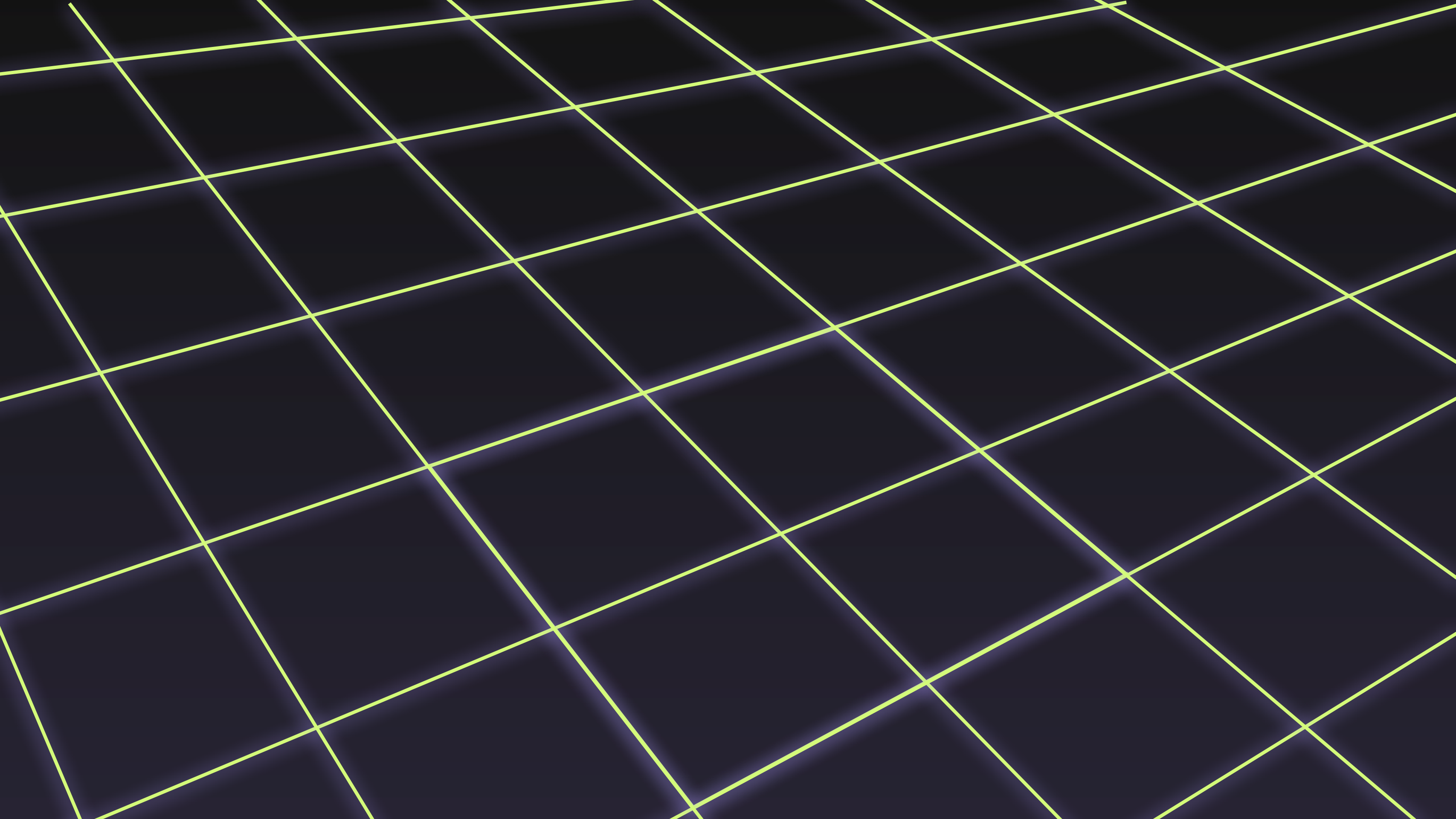
karl marx

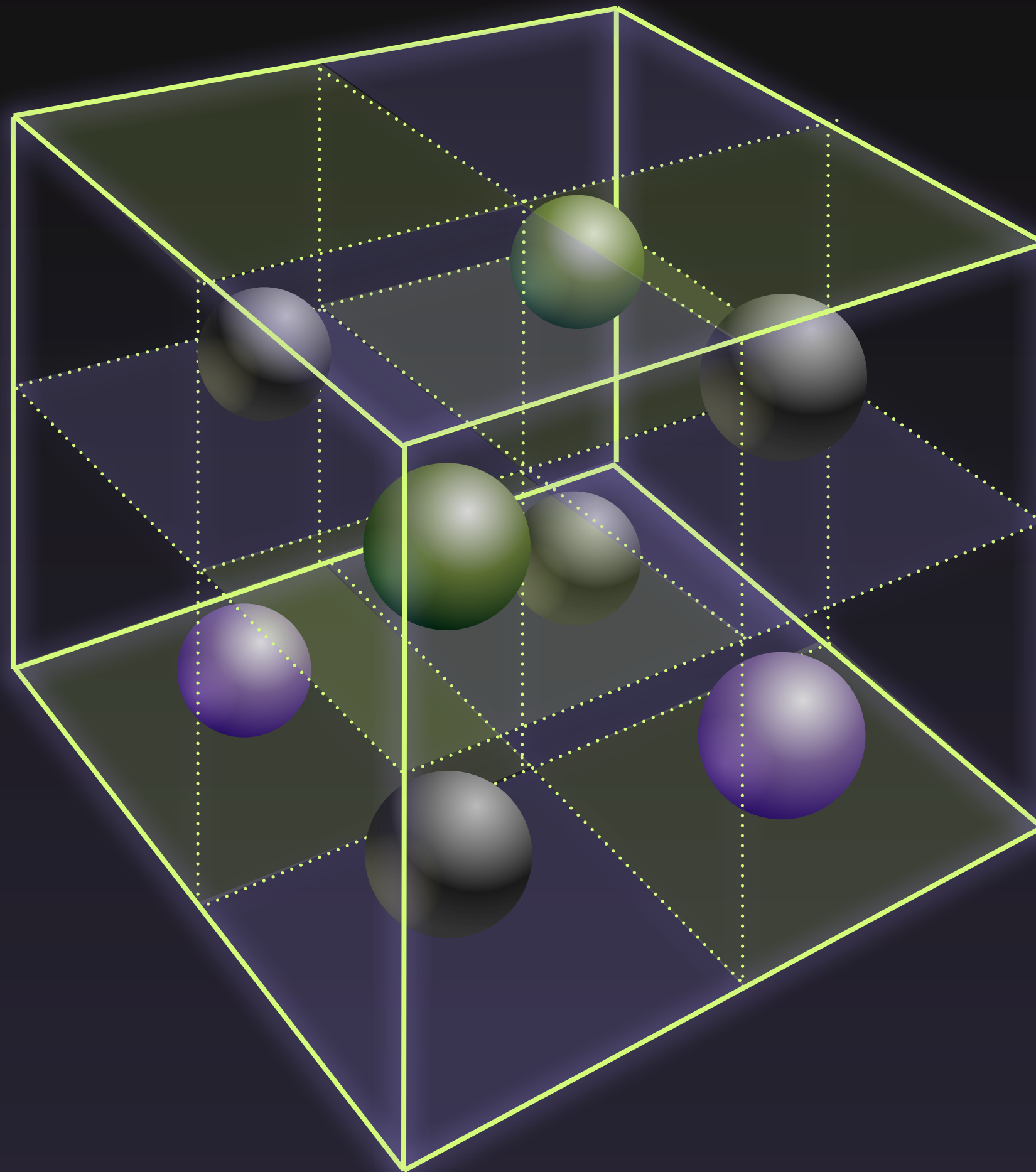


karl marx

“From each according
to his ability to each
according to his need.”





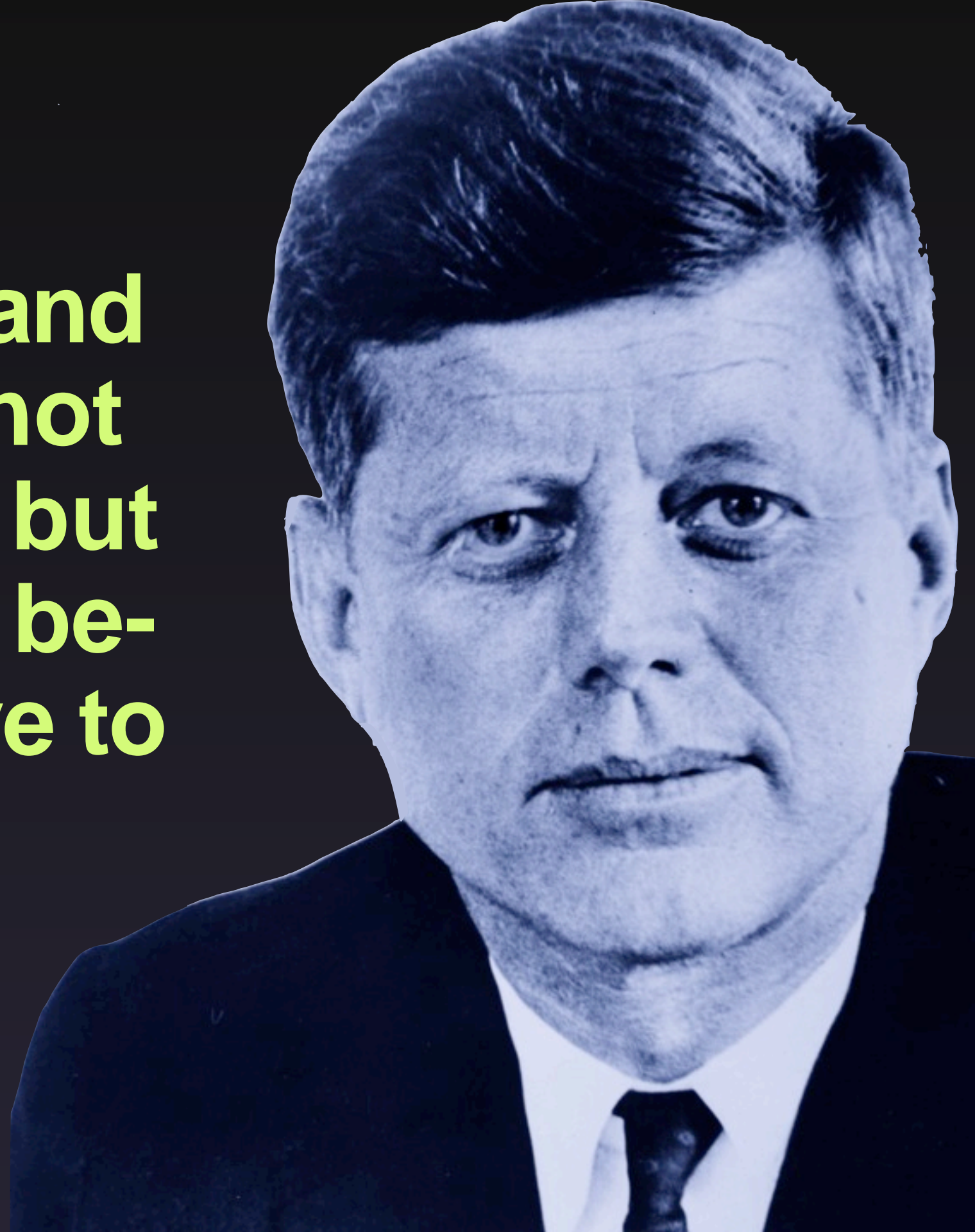


john f. kennedy



john f. kennedy

“We go to the moon [...] and do these other things, not because they are easy, but because they are hard, because that goal will serve to organize and measure the best of our energies and skills...”



think

create

publish

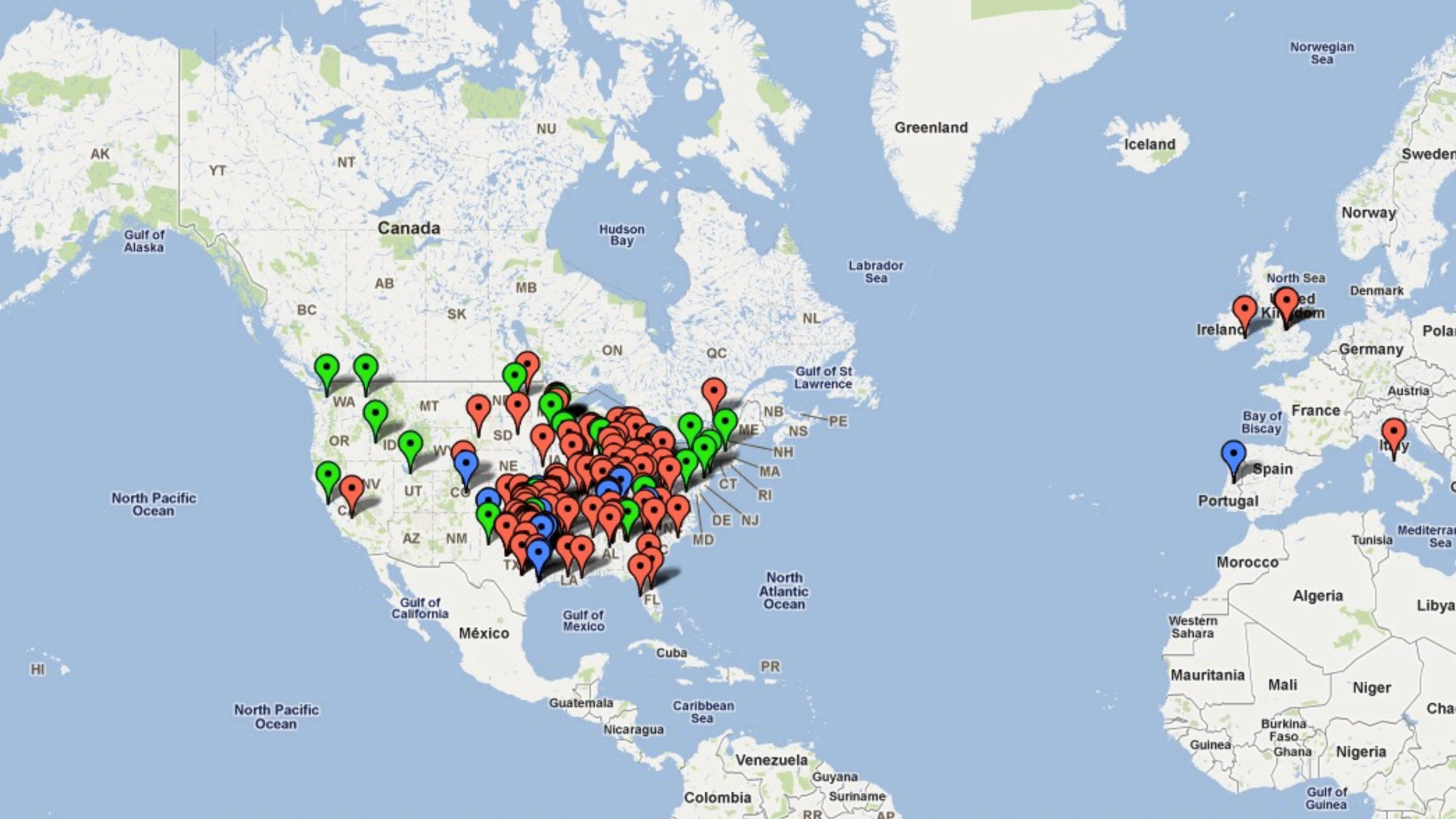








www.redthreadmovement.org



NEPAL

Wing-Cutting Training

नेपाल

शालि

सेवा



THE CNN FREEDOM PROJECT

Ending Modern-Day Slavery


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June 13th, 2011
09:16 AM ET

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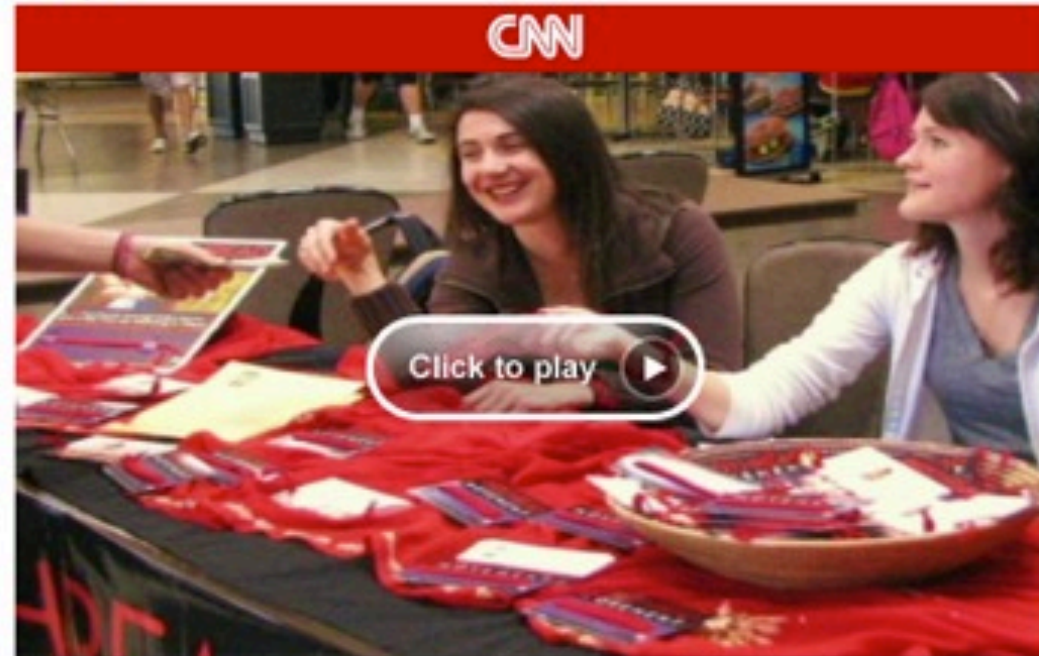
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iReporters making a difference

You don't have to be a celebrity activist like [Demi Moore](#) or [Ashton Kutcher](#) to make a difference in the fight to end slavery. Meet three iReporters who are doing their part:




iReporters take a stand against slavery

From Kenya to the United States, iReporters prove one person can make a difference in the fight to end slavery.

Added Jun 10, 2011

[more CNN Video >](#)

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About this project



This year CNN will join the fight to end modern-day slavery and shine a spotlight on the horrors of modern-day slavery, amplify the voices of the victims, highlight success stories and help unravel the complicated tangle of criminal enterprises trading in human life. [A PROBLEM THAT CAN'T BE IGNORED | MORE ABOUT THE PROJECT](#)

Nepal's Stolen Children



Actress Demi Moore partners with CNN Freedom Project for a

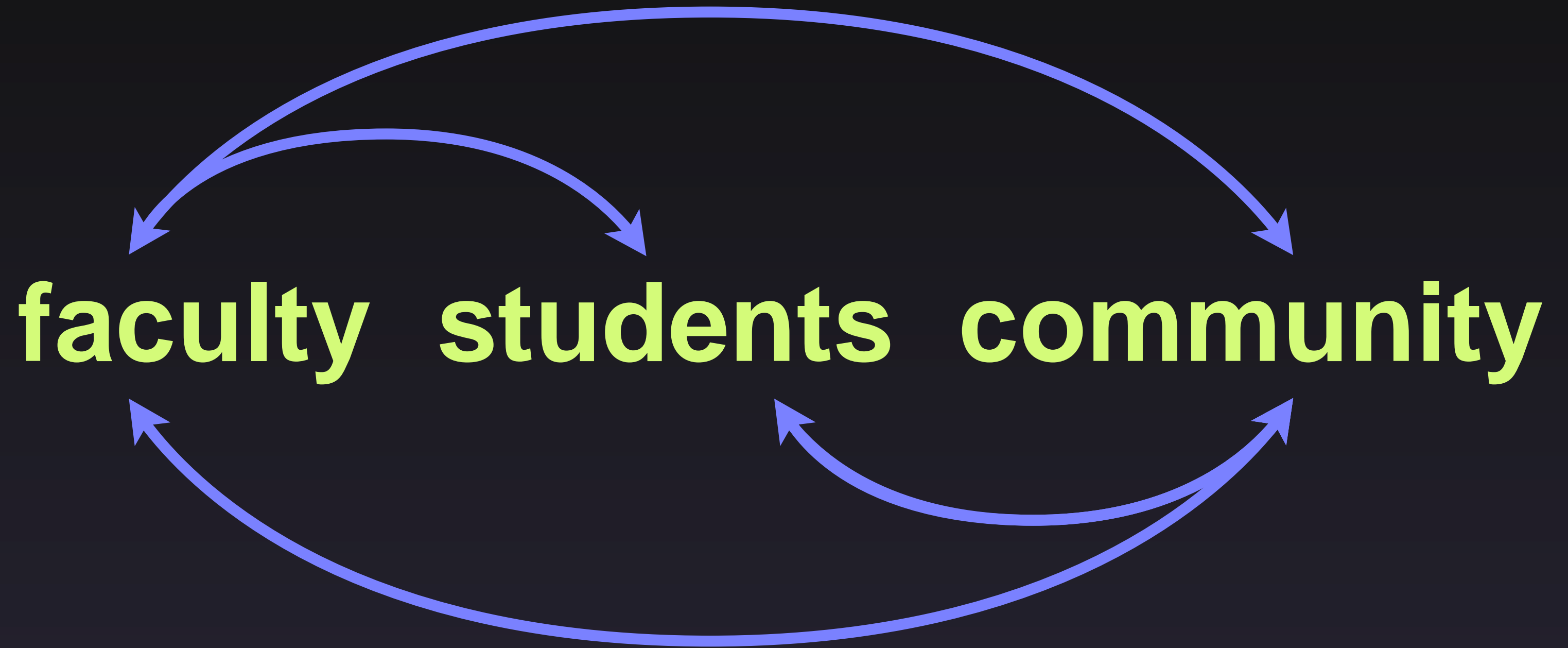
the future...



CitySquare

faculty students community





a new paradigm...

location

location

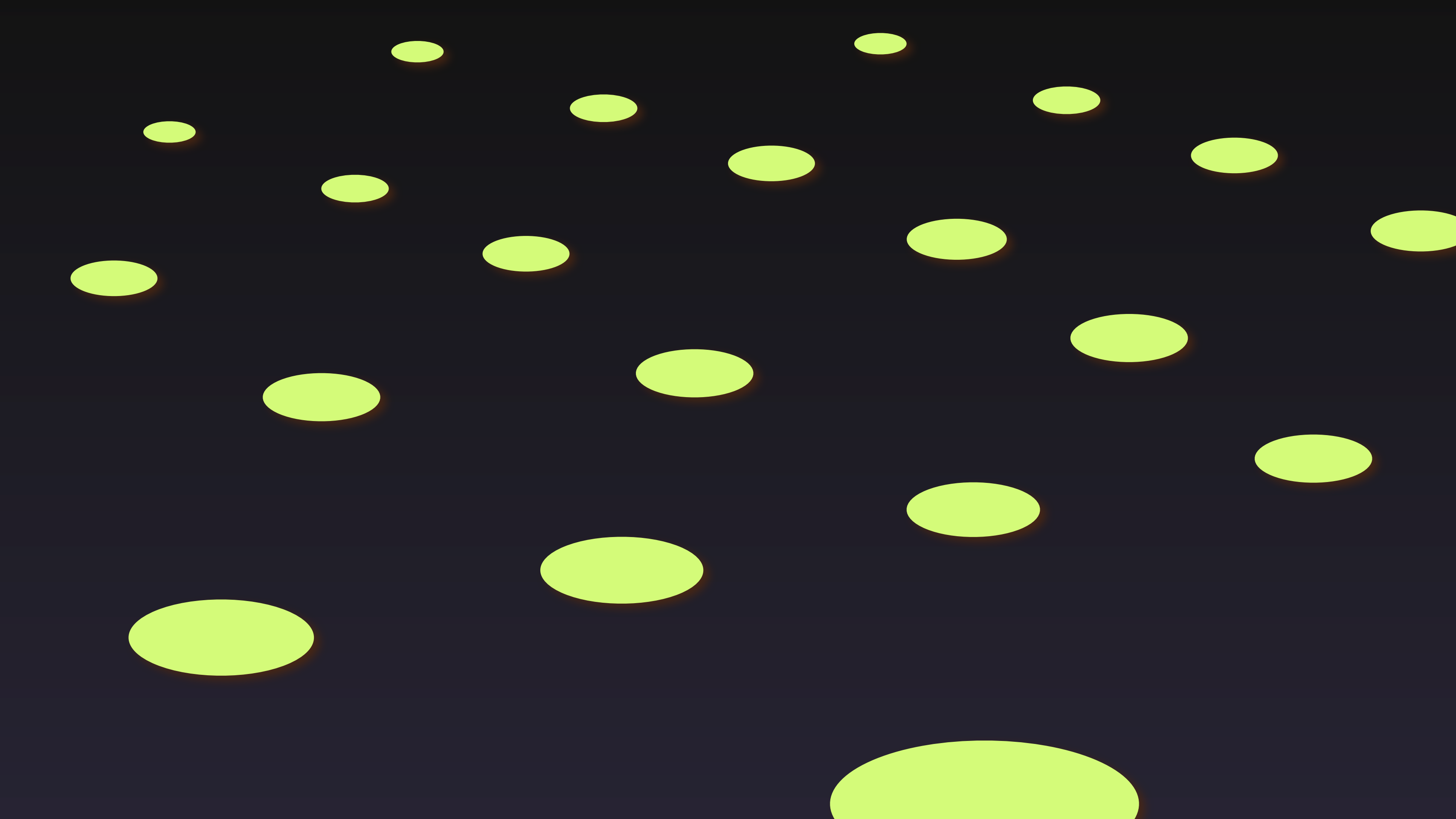
location

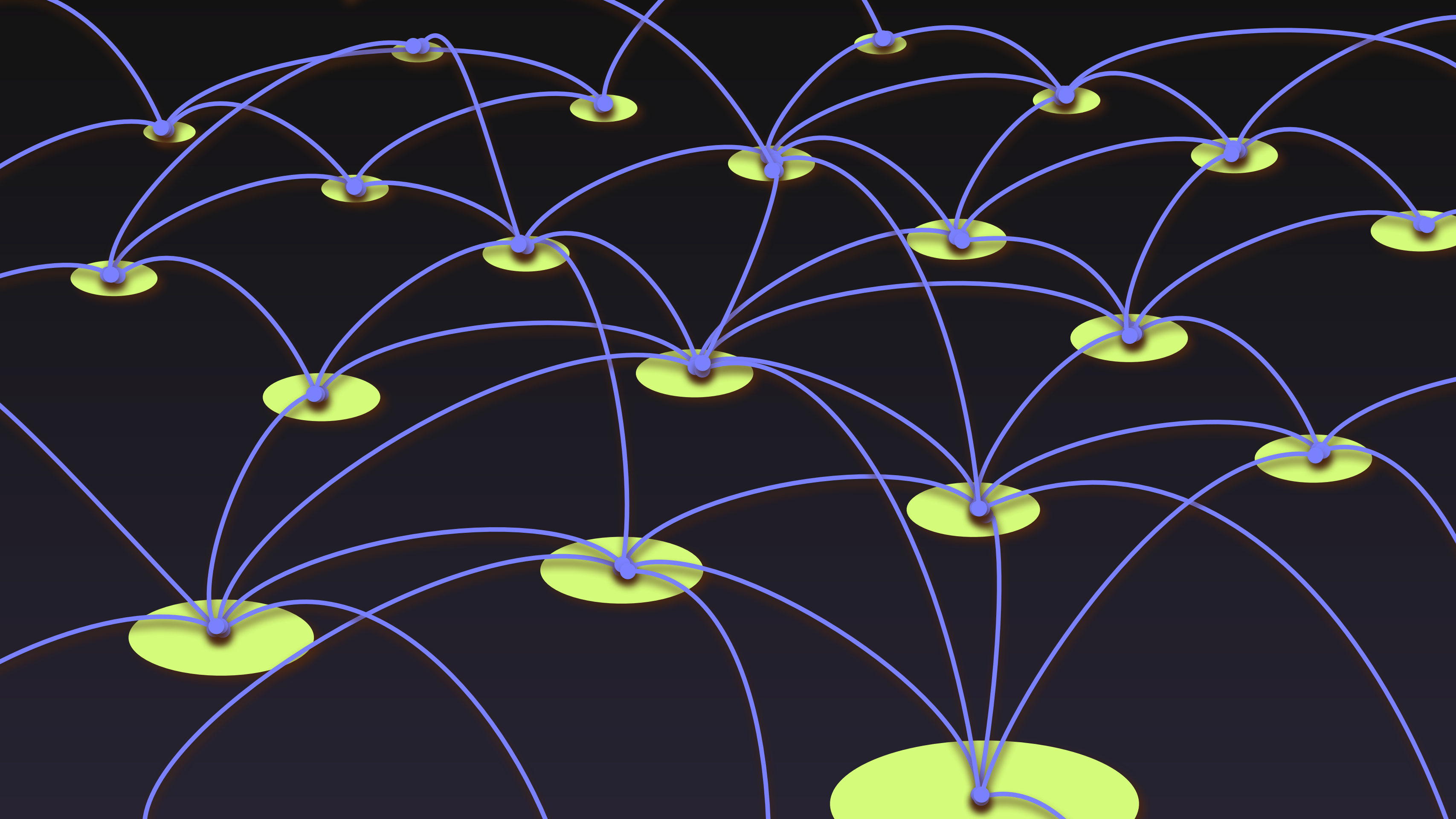
a new paradigm...

connection

connection

connection







a new model...

linearity
isolation
hierarchy
simulation

a new model...

recursivity
connection
community
engagement

the new classroom...

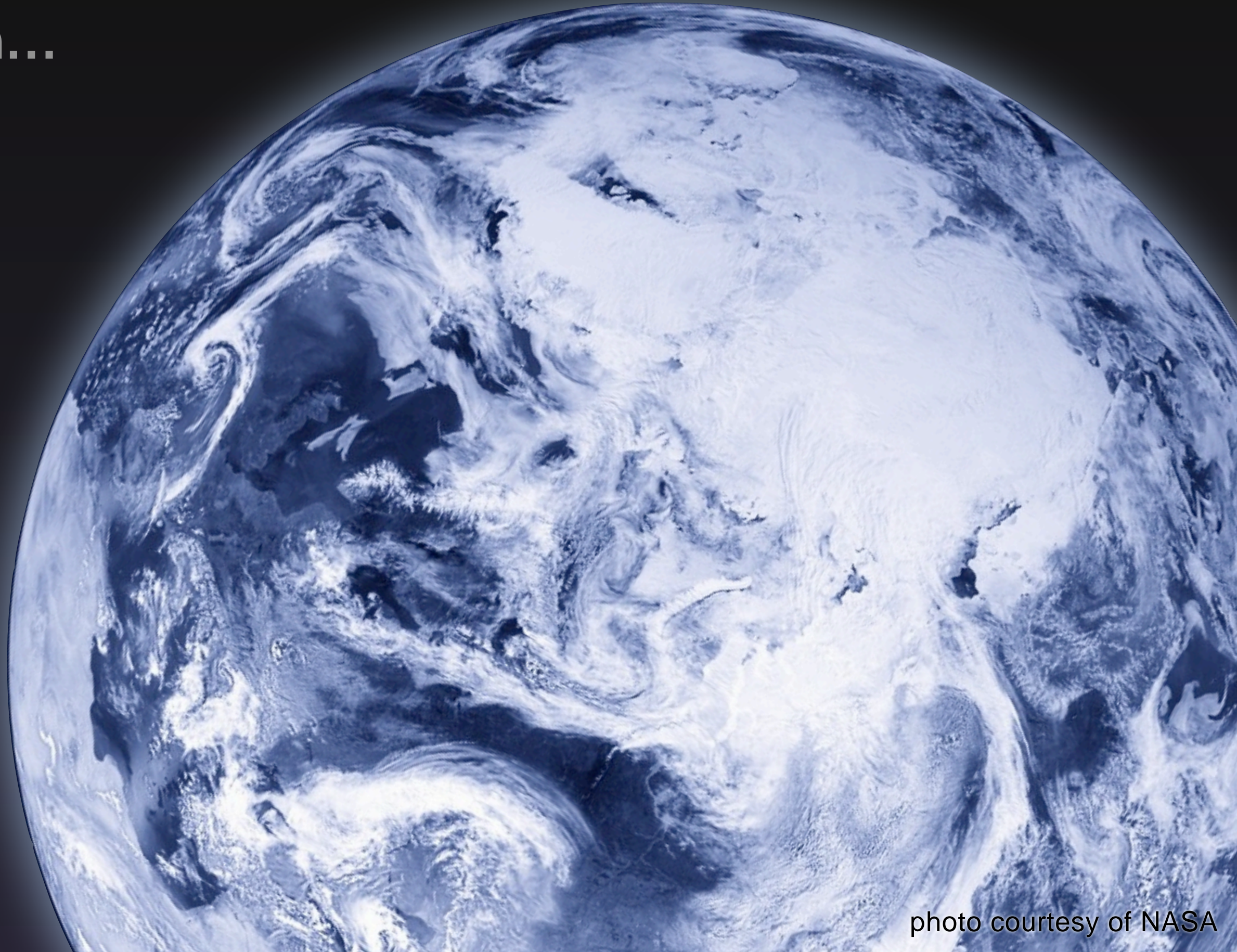


photo courtesy of NASA

thank you.

email
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