Londres, 1854

NOTICE.

PREVENTIVES OF

CHOLERA!

Published by order of the Sanatory Committee, under the sanction of the Medical Counsel.

BE TEMPERATE IN EATING & DRINKING!

Avoid Raw Vegetables and Unripe Fruit !.

Abstain from COLD WATER, when heated, and above all from *Ardent Spirits*, and if habit have rendered them indispensable, take much less than usual.

SLEEP AND CLOTHE WARM !

☛ DO NOT SLEEP OR SIT IN A DRAUGHT OF AIR.

Avoid getting Wet !

Attend immediately to all disorders of the Bowels.

TAKE NO MEDICINE WITHOUT ADVICE.

Medicine and Medical Advice can be had by the poor, at all hours of the day and night, by applying at the Station House in each Ward.

CALEB S. WOODHULL, *Mayor.*

JAMES KELLY, *Chairman of Sanatory Committee.*


John Snow


GT CASTLE ST
REGENT STREET
CIRCUS
MARKET ROW
MARKET STREET
STREET
GT MARLBOROUGH STREET
MARLBOROUGH MEWS
BLENHEIM MEWS
BLENHEIM STREET
ARGYLL STREET
ARGYLL PLACE
LITTLE ARGYLL ST
POLAND STREET
NOEL STREET
HOLLEN STREET
GREAT CHAPELFIELD ST
LITTLE CHAPEL STREET
CARLISLE STREET
CHARLES ST
SOHO SQUARE
EXETER STR
GREEK STREET
TRITH STREET
QUEEN STREET
PORTLAND STREET
PORTLAND MEWS
BERWICK STREET
EDWARD STREET
RICHMOND BUILDINGS
WORK HOUSE
BROAD STREET
TYLER STREET
CHAPLIN STREET
CHAPLIN MEWS
MINCHENDEN STREET
WARDOUR STREET
GREAT PULTENEY STREET
LITTLE PULTENEY STREET
PETER STREET
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CHURCH ST
KING ST
BECCLESFIELD ST
GEORGE ST
GERRARD ST
LISLE STREET
LEICESTER STREET
RICHMOND ST
UP RUPERT ST
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ARCHER STREET
GREAT WINDMILL STREET
QUEEN STREET
SHERRARD STREET
REWER STREET
GOLDEN SQUARE
WARWICK STREET
LEICESTER ST
NEWDIGATE STREET
SAVILLE ROW
OLD BURLINGTON STREET
NEW BURLINGTON STREET
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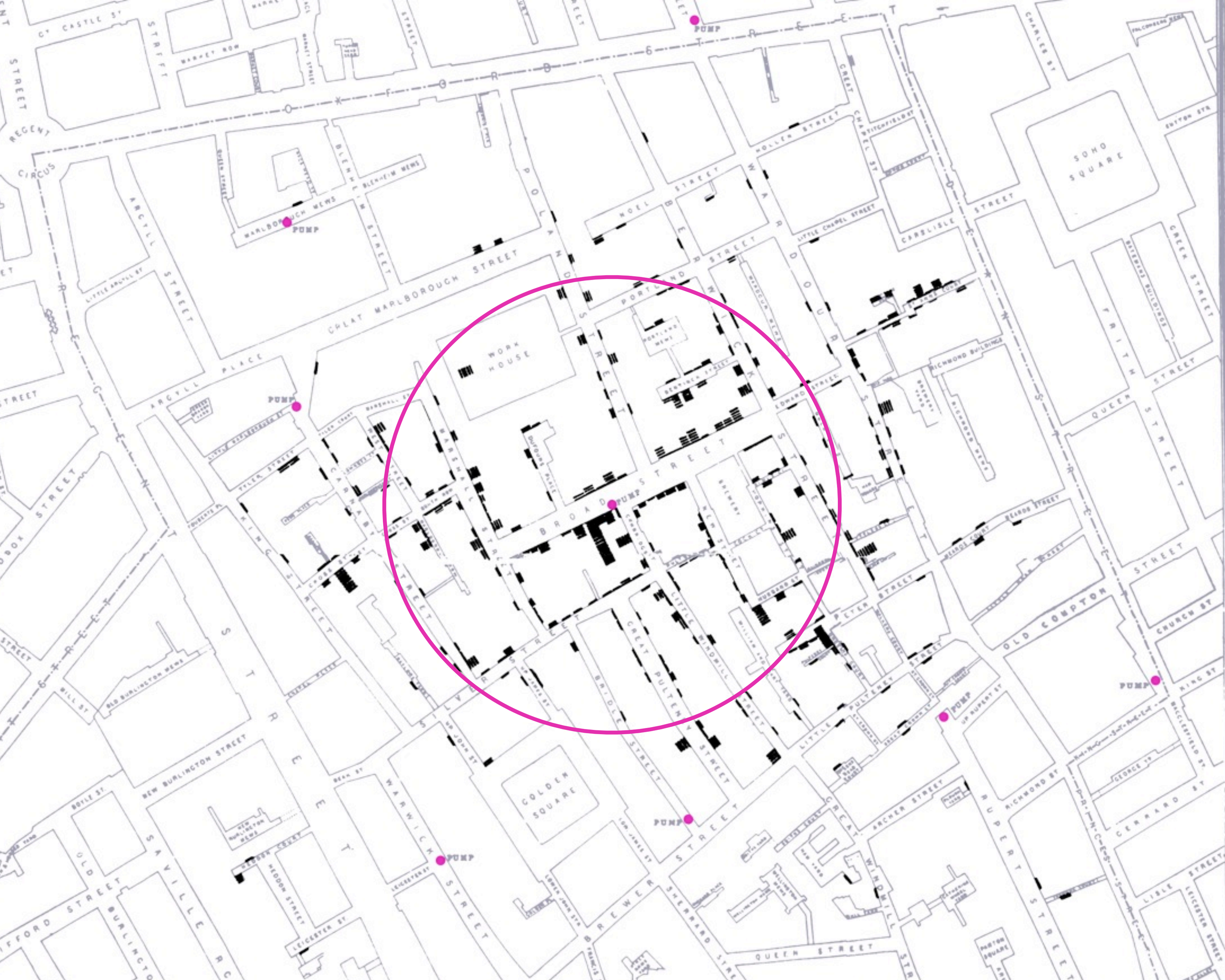
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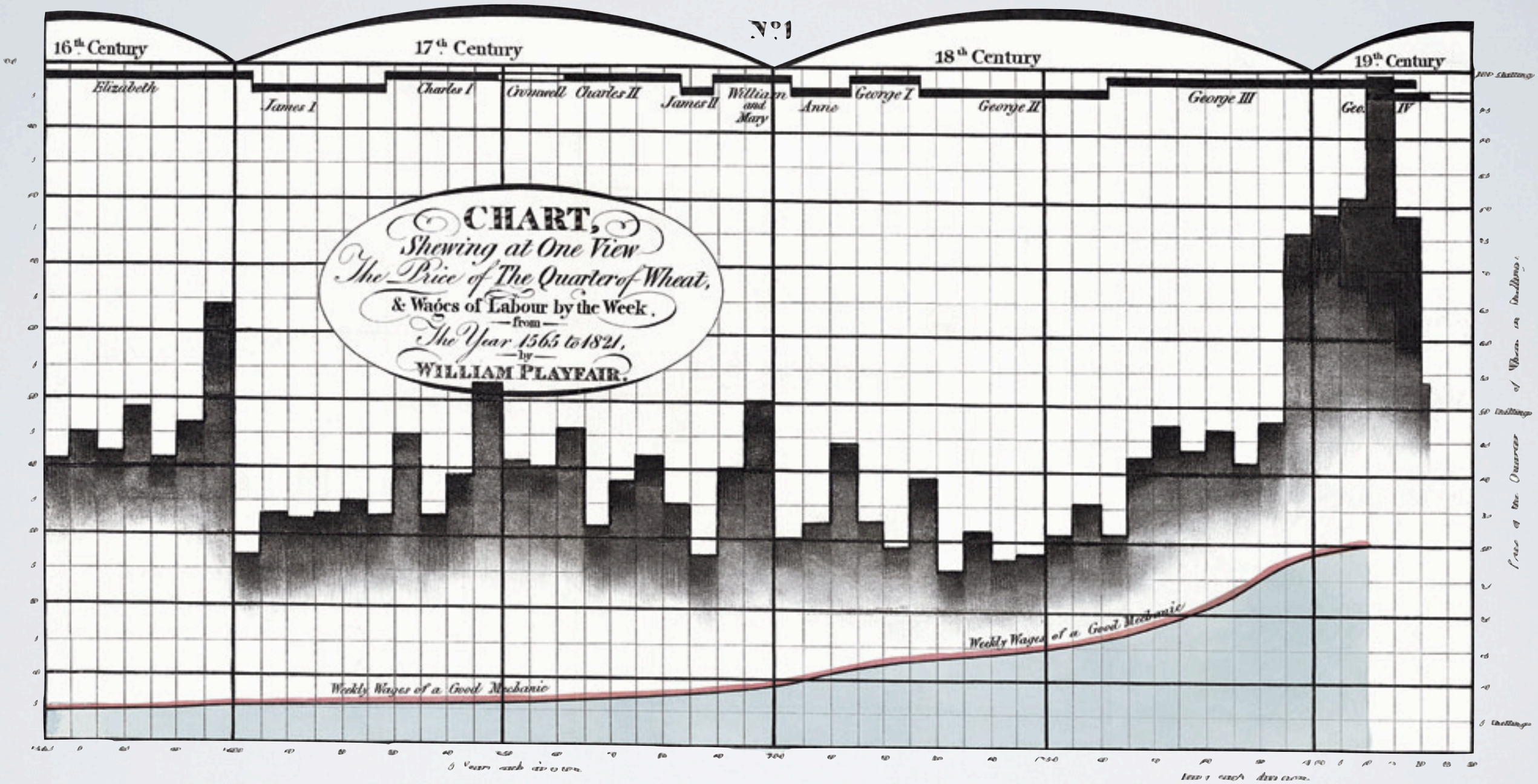
RUPERT STREET
RICHMOND ST
GERRARD ST
LISLE STREET
LEICESTER STREET
PUMP


JOHN SNOW
JOHN SNOW
SALOON

Los gráficos
son instrumentos
para razonar
sobre los datos

Edward Tufte


№1
16th Century
17th Century
18th Century
19th Century
Elizabeth
James I
Charles I
Cromwell
Charles II
James II
William and Mary
Anne
George I
George II
George III
Geo. IV
CHART,
Shewing at One View
The Price of The Quarter of Wheat,
& Wages of Labour by the Week,
from
The Year 1565 to 1821,
by
WILLIAM PLAYFAIR.
Weekly Wages of a Good Mechanic
Weekly Wages of a Good Mechanic

Hewlett-Packard's new personal computer is up to 5 times faster than IBM's. And half the size.

Take two personal computers: Hewlett-Packard's new Series 200 Model 16 and the IBM PC. Run the same software—Context/MBA™—and solve the same problem.

You'll see one big difference. It takes the IBM minutes to do what the HP 200 can do in seconds.* And that's just the beginning.

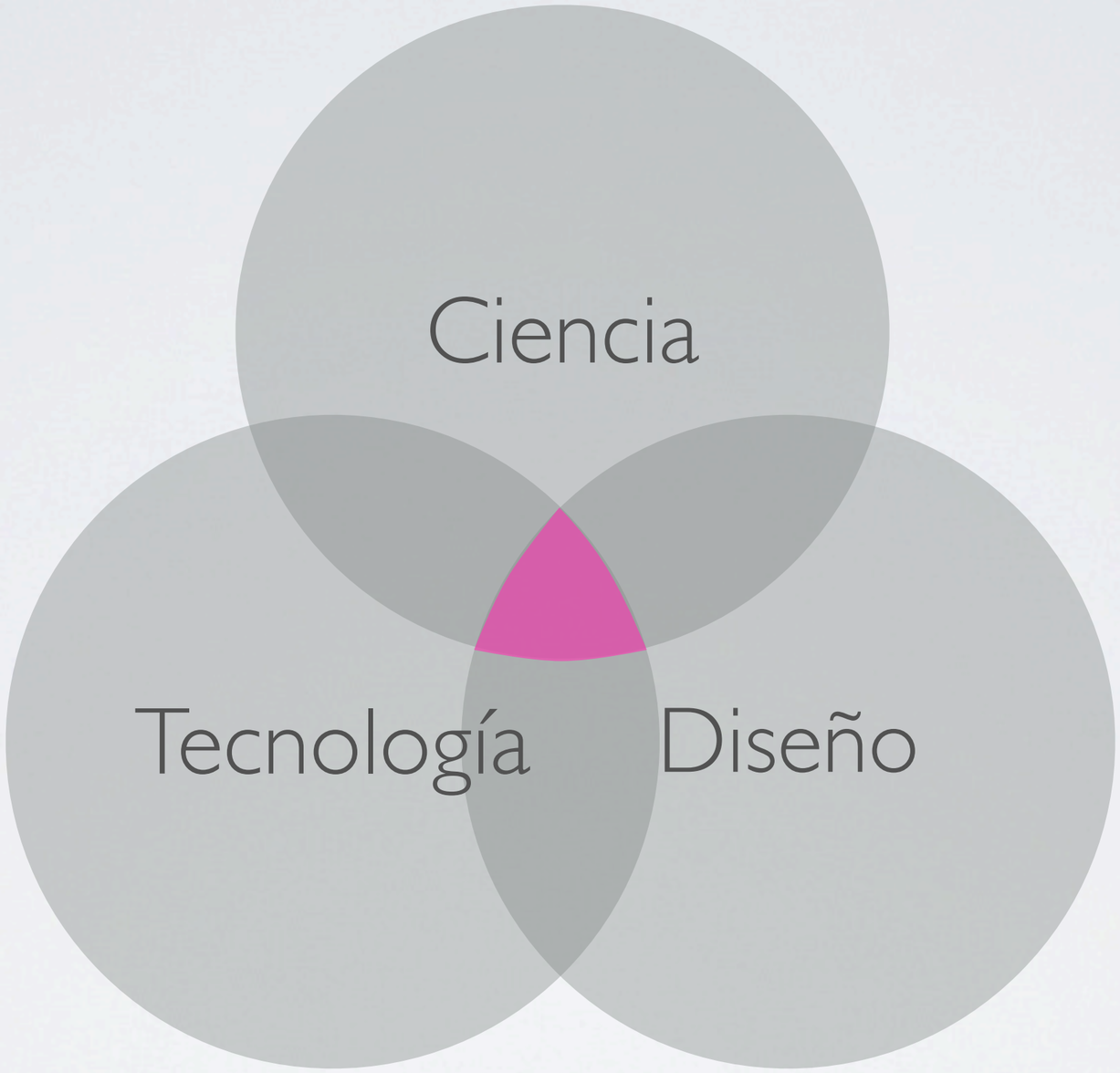
With Context/MBA™ integrated software, the HP 200 can do word processing, spreadsheet projections, indexing, filing and graphics all at one time. Change one number in a projection . . . and the graphs change, auto-

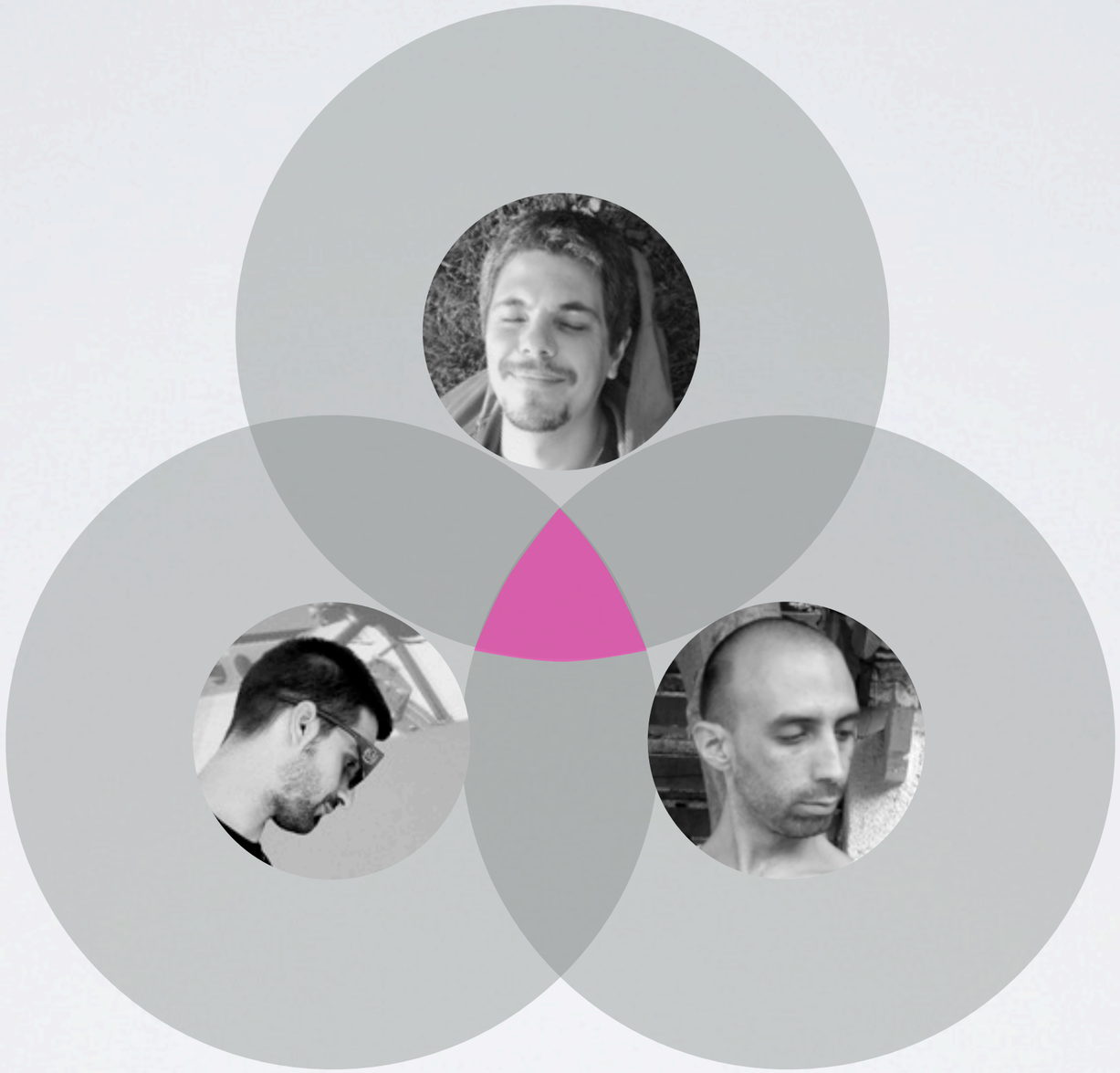
one time. (Twice as much as the IBM.) And it's got the memory to handle big, complicated problems. (You can have as much as 768Kb.)

But for all its power, the HP 200 is surprisingly small. The whole computer, not including the keyboard, measures just 12″ across by 13″ deep. So, putting a personal computer on your desk doesn't mean taking everything else off.

If you'd like to see how the HP 200 measures up, call (800) 547-3400. (In Alaska, Hawaii and Oregon call (503) 758-1010 or TTY (503) 758-5566.) Ask operator #411 for more information and the name of the HP dealer or sales office nearest you.

HEWLETT PACKARD


Ciencia
Tecnología
Diseño



Galileo Galilei

Figure 3. Experimental dam break results at times 0.32s, 0.64s, 0.96s and 2.08s

Figure 4. Dam break results at times 0.32s, 0.64s, 0.96s and 2.08s using the divided mesh

s) can be observed for the moment the return wave hits the box again at about $5.0\ s$. This delay has also been observed in the first author's thesis [22] using a different free surface model presented in [6], [7].

B. Flushing of a toilet

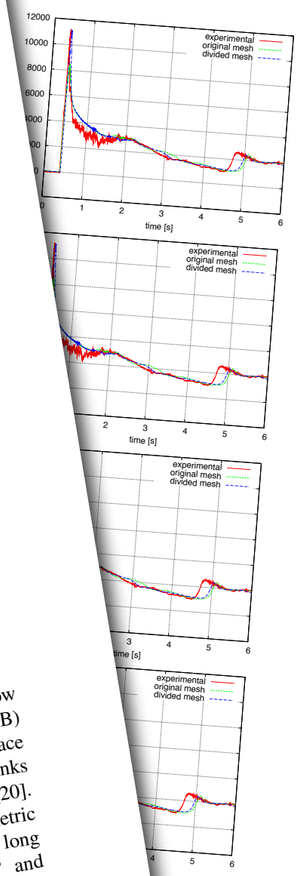
The second example presents the flushing of a toilet using a complex real geometry with different lengths; from approximately $3mm$ for the discharge orifices to approximately $400mm$ for the size of the whole toilet. In order to treat such geometry an unstructured mesh with 748044 nodes and 3104902 tetrahedral, pyramidal and prism elements is used. It is shown in Figure 6. In order to simplify the simulation for the moment slip boundary conditions have been applied at the walls. A constant inflow velocity is applied at the inlet so that the flushing time corresponds to a realistic situation. Figure 7 shows several snapshots during the flushing process. The results show good qualitative comparison with the actual process. Initially only a small portion of the initial prat of the inlet tube is filled with water. When the simulation starts the water starts moving through the internal upper part of the toilet until it reaches the discharge orifices where it comes out as a jet. Finally it collides with the toilet walls to form a thin film of water.

C. DTMB 5512

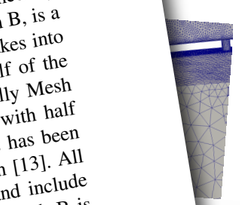
In order to benchmark our numerical results the flow around the bare hull David Taylor Model Basin (DTMB) model 5512, a 1:46.6 model scale of a modern surface combatant, is used. It has been tested in the towing tanks at DTMB, IIHR (Iowa) [18] and INSEAN (Italy) [20]. It has a sonar dome, which provides additional geometric complexity. The DTMB 5512 model is $L = 3.048\ m$ long with $0.132\ m$ draft. Results at $Re = 4.85 \times 10^6$ and $Fr = 0.28$ will be shown.

Three different finite element meshes have been used. The first one, that we shall call Mesh A, is formed by 8 Melements and 1.5 Mnodes. The second one, Mesh B, is a slightly improved version of the previous one that takes into account symmetry and therefore simulates only half of the whole domain. It is formed by 5 Melements. Finally Mesh C is obtained by dividing mesh B into elements with half the size arriving to a total of 40 Melements. This has been done automatically using the strategy presented in [13]. All three meshes are formed mainly by tetrahedra and include an anisotropic layer of prisms close to the hull. Mesh B is shown in Figure 8 . It is refined close to the ship hull and close to $z = 0$, the region where the free surface is found. As we have said, the other two meshes are quite similar.

The computational domain extends $L = 3.048\ m$ ahead of the ship hull and $2L$ behind. The distance from the



3, P6 and P8



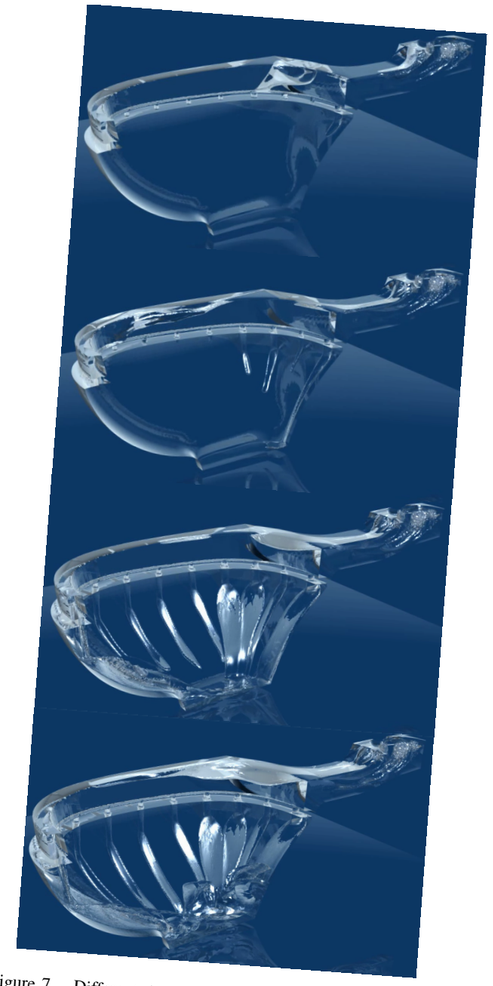
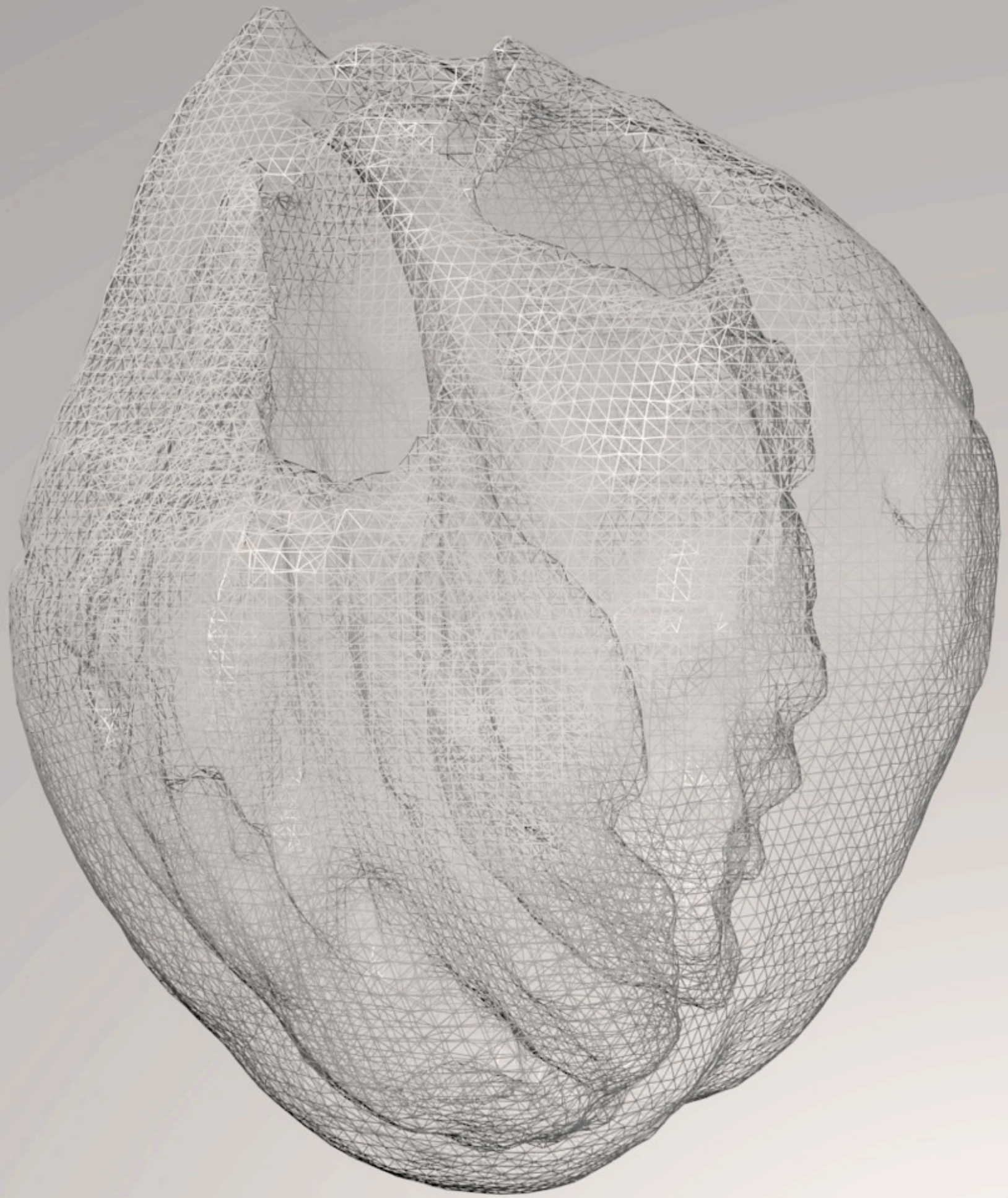


Figure 7. Different time steps during the flushing of a toilet

undisturbed free surface to the bottom of the domain is L and the height of the initial air region is $0.22L$. The lateral extent of the domain is $2L$ in the symmetric case and $4L$ in the non symmetric one. The velocity is prescribed at the inlet, lateral, bottom and top walls. At the outlet the velocity is left free and the normal traction is prescribed as described in Section 2. Reichardt's wall law [25] is applied on the ship hull. The turbulent variables k and ω are prescribed so that the turbulence intensity is 0.0005 and the ratio between the turbulent and laminar viscosities is 10.0 at the inlet. On the ship hull the wall law is again used to apply the boundary conditions for the the turbulence variables. On the remaining boundaries the boundary condition for the turbulent variables corresponds to a zero normal gradient. Finally, the Level Set function is only prescribed at the inlet. When a symmetric

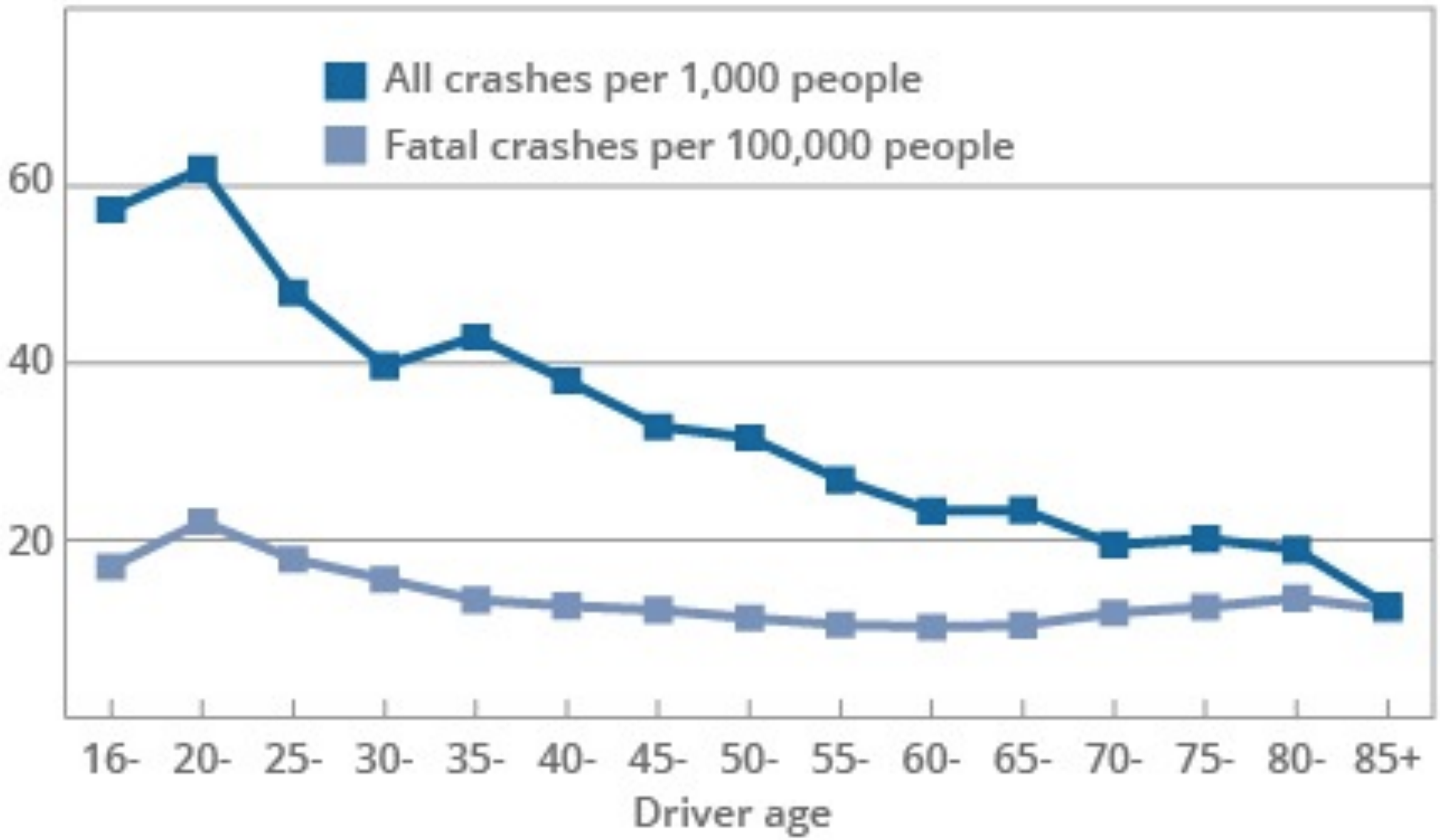

TOP VIEW
2,4 km
00:00:00
4 km

Alya red

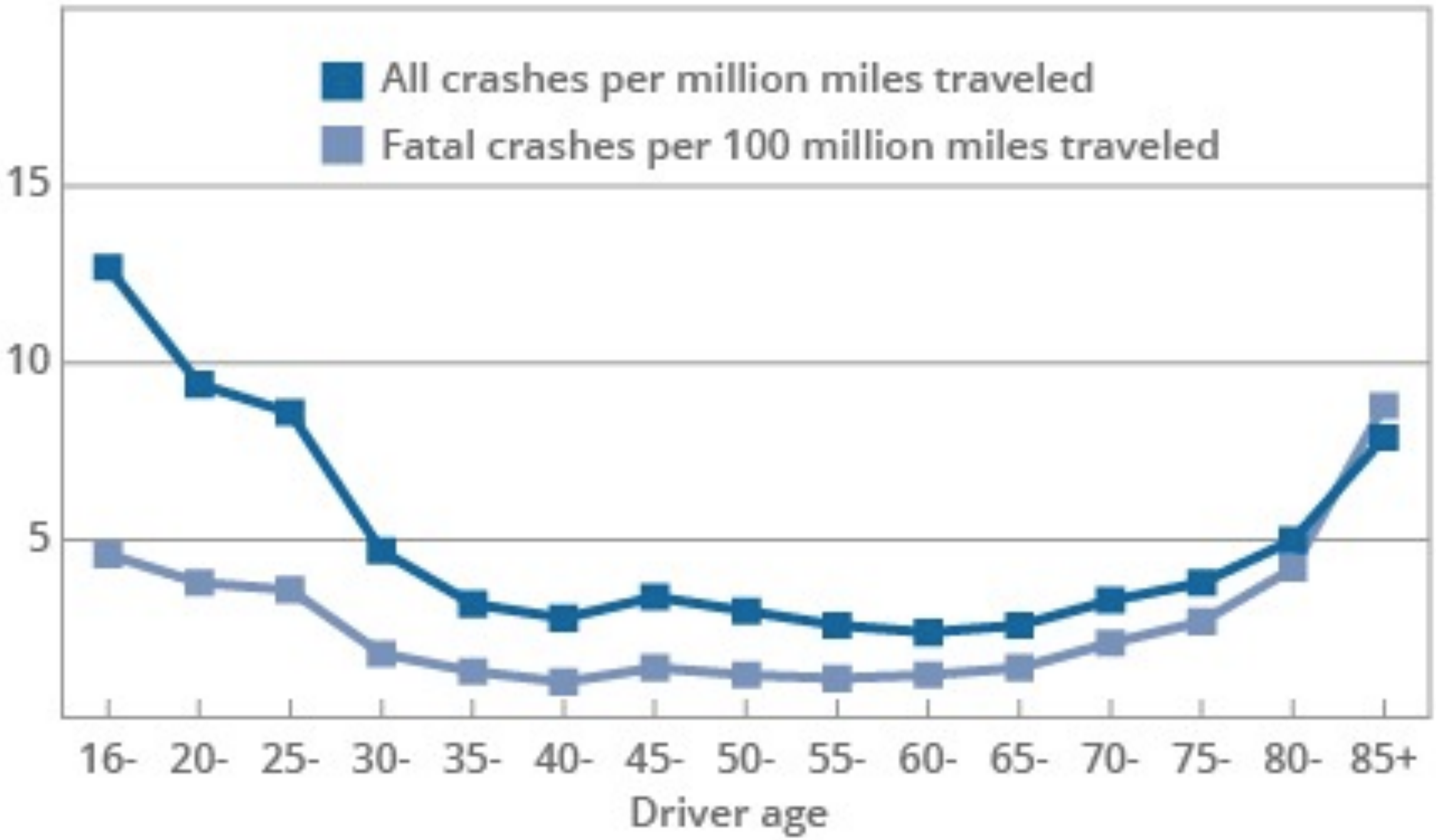


Intermedio

Per capita rate of passenger vehicle crash involvements by driver age, 2011



Rate of passenger vehicle crash involvements per mile traveled by driver age, 2008

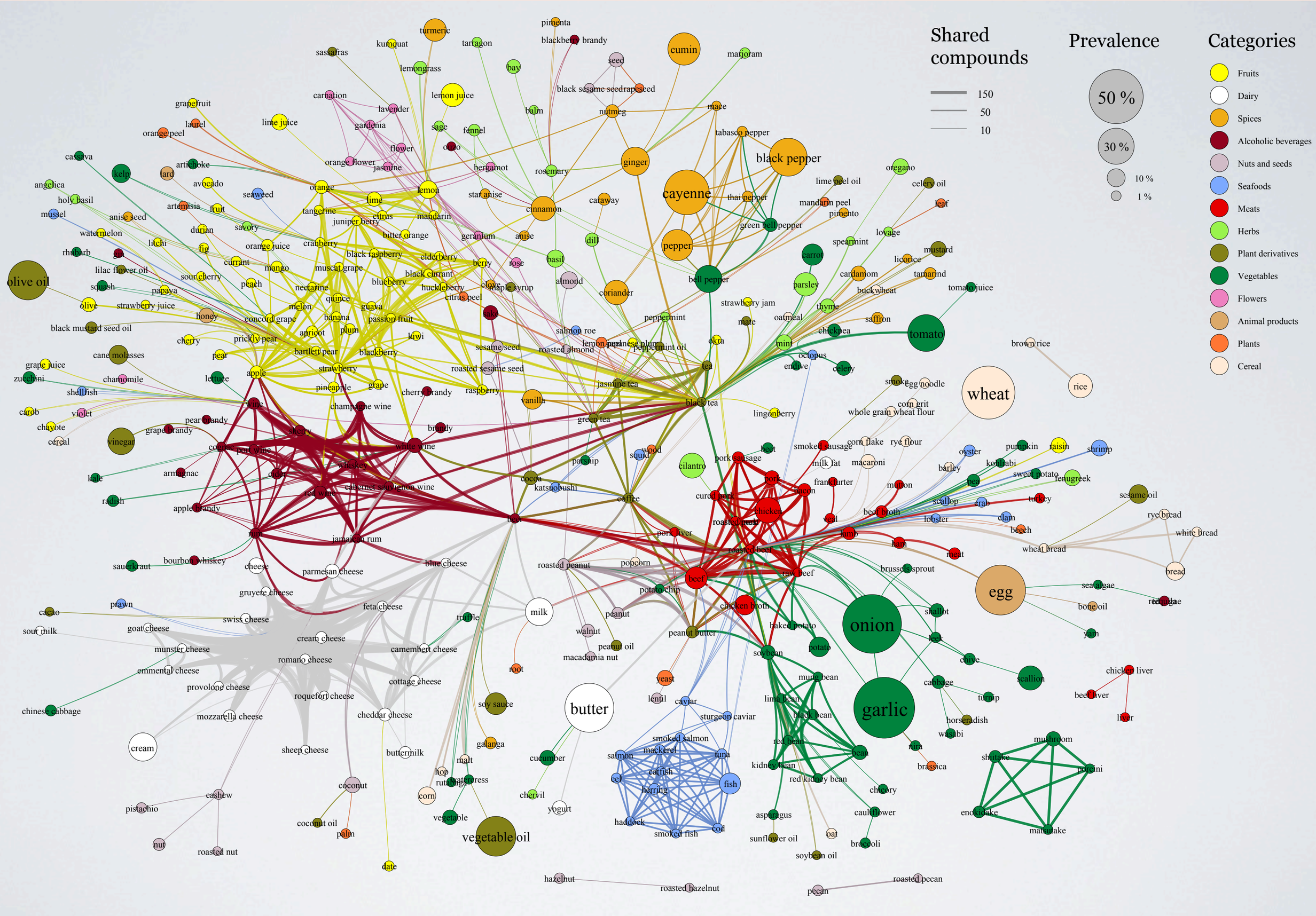


No muestres
los datos,
muestra
la verdad.

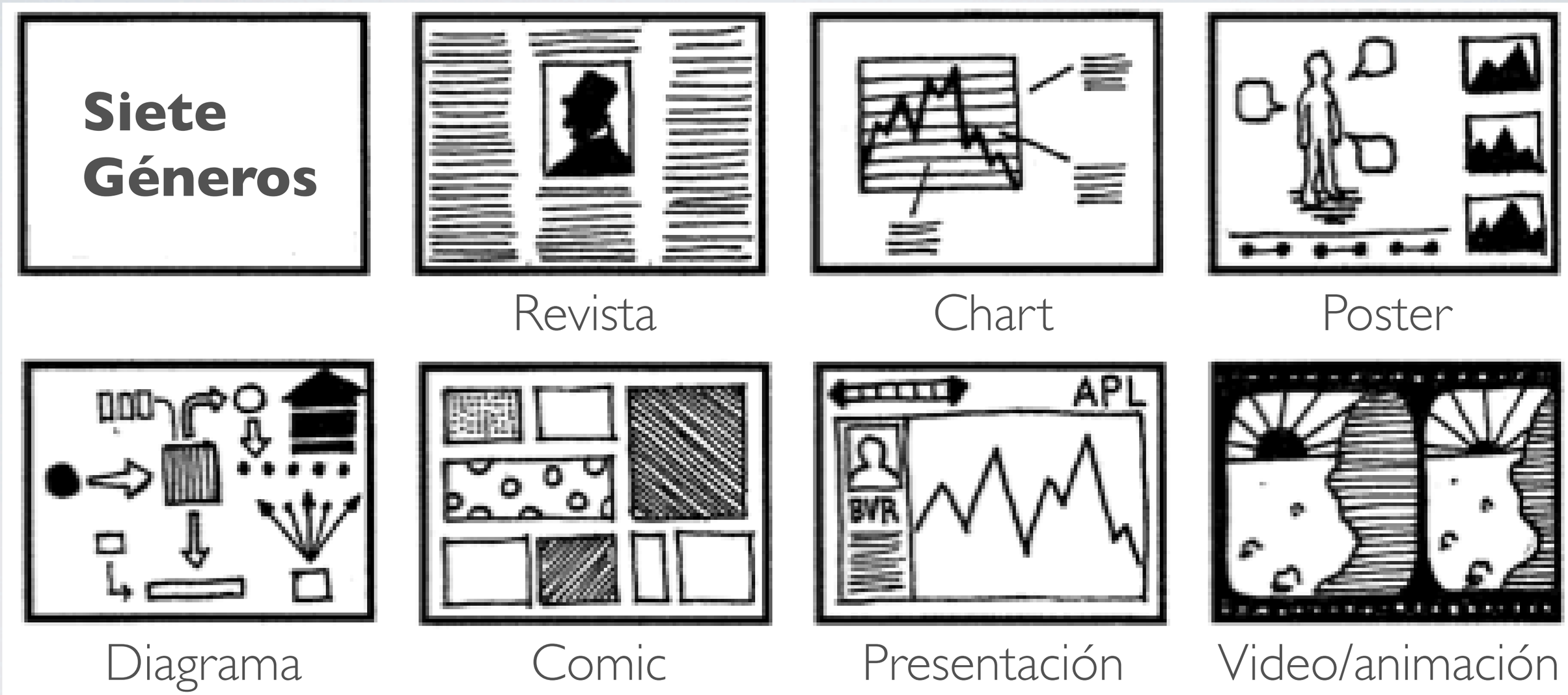
Moritz Stefaner

Flavor Network

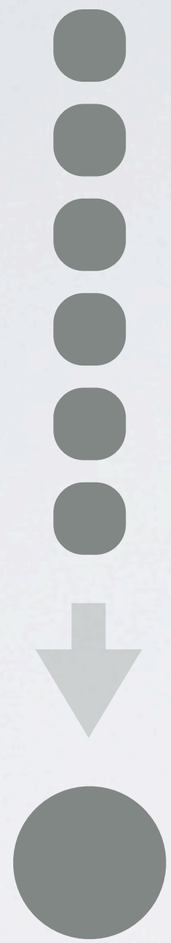
Yong-Yeol Ahn, Sebastian Ahnert, James P. Bagrow, and A.-L. Barabási



Flavor network. Culinary ingredients (circles) and their chemical relationship are illustrated. The color of each ingredient represents the food category that the ingredient belongs, and the size of an ingredient is proportional to the frequency we use (collected from online recipe databases: epicurious.com, allrecipes.com, menupan.com). Two culinary ingredients are connected if they share many flavor compounds. We extracted the list of flavor compounds in each ingredient from the book "Fenaroli's handbook of flavor ingredients (5th ed.)" and then applied a backbone extraction method by Serrano et al. (*PNAS* **106**, 6483) to pick statistically significant links between ingredients. The thickness of an edge represents the number of shared flavor compounds. To reduce clutter, edges are bundled based on the algorithm by Danny Holten (http://www.win.tue.nl/~dholten/).



Edward Segel and Jeffrey Heer



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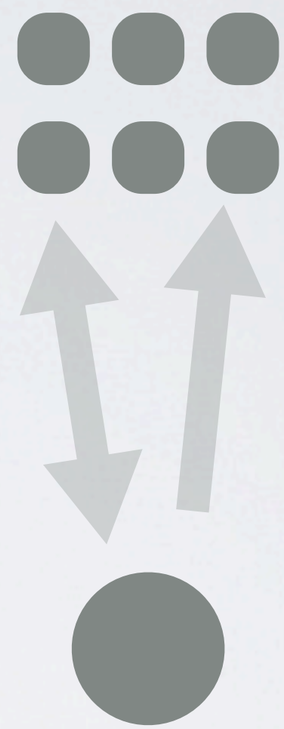

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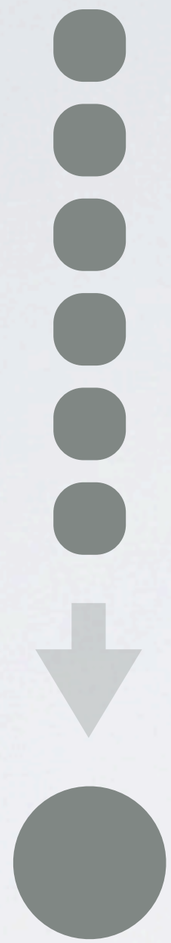
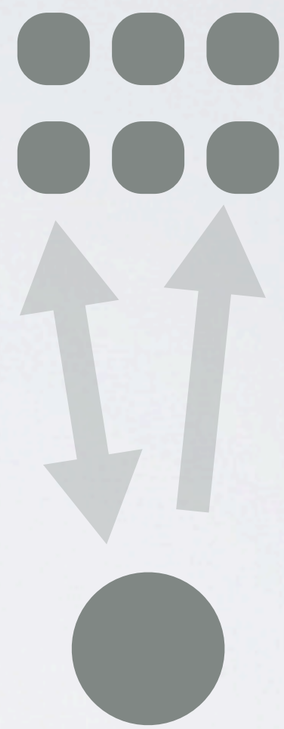


Explicativo



Exploratorio

Técnicas
de narrativa

Mapping the World's Friendships

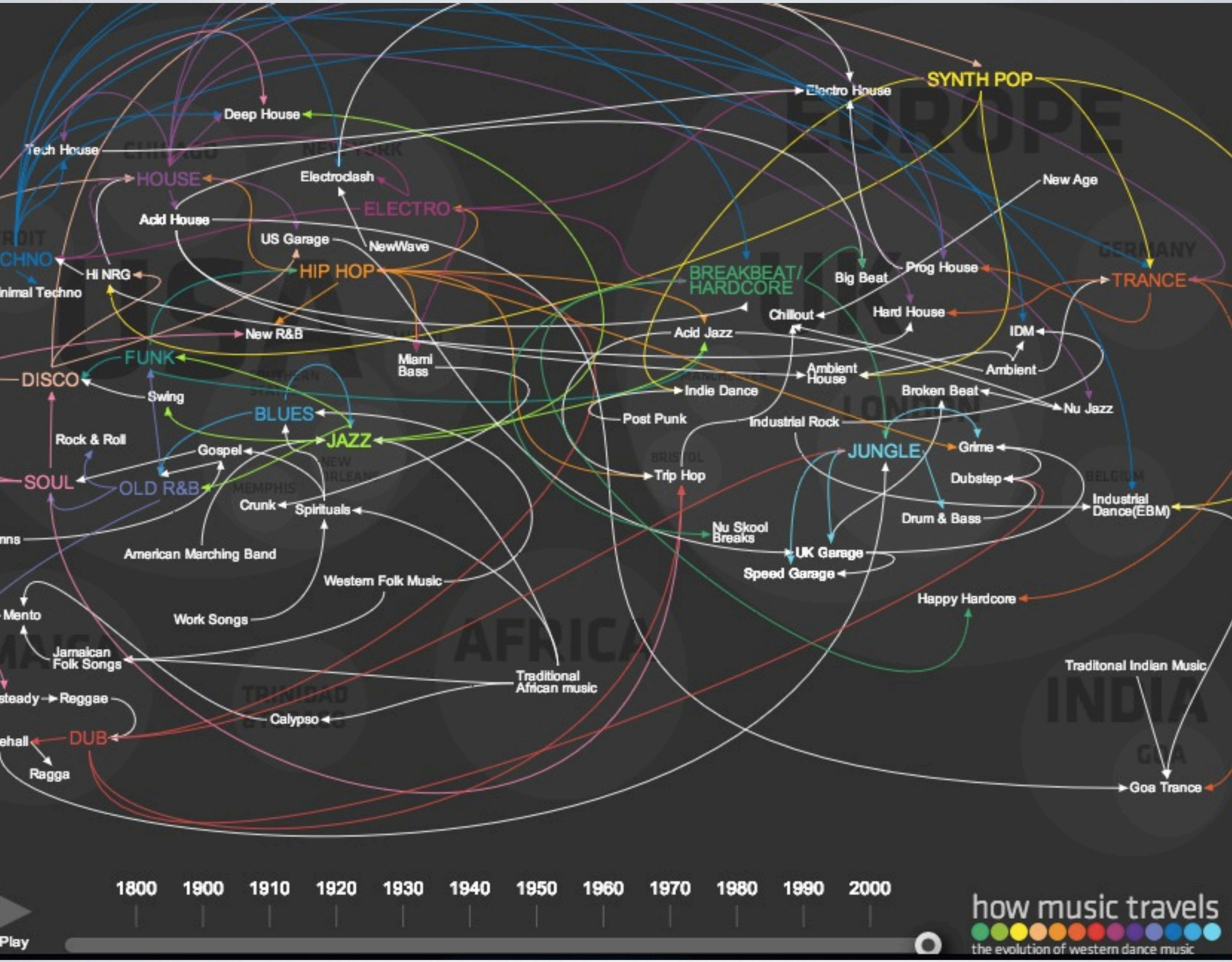
Learn which countries share the closest friendship connections on Facebook.

Methodology

Show Language

A Closer Look: Spain & Romania

Romania is the biggest source of immigrants in Spain, although Spain recently decided to close its borders to Romanian immigrants through the end of 2012.


SYNTH POP
Electro House
Deep House
Tech House
HOUSE
Electroclash
ELECTRO
New Age
Acid House
US Garage
NewWave
HIP HOP
Hi NRG
BREAKBEAT/ HARDCORE
Big Beat
Prog House
TRANCE
Chillout
Hard House
IDM
New R&B
Acid Jazz
FUNK
Miami Bass
Ambient House
Ambient
DISCO
Swing
Indie Dance
Broken Beat
Nu Jazz
BLUES
Post Punk
Industrial Rock
Rock & Roll
JAZZ
Gospel
JUNGLE
Grime
SOUL
OLD R&B
Trip Hop
Dubstep
Crunk
Spirituals
Industrial Dance(EBM)
Drum & Bass
Nu Skool Breaks
American Marching Band
UK Garage
Speed Garage
Western Folk Music
Happy Hardcore
Mento
Work Songs
Jamaican Folk Songs
Traditional African music
Traditonal Indian Music
Reggae
Calypso
DUB
Ragga
Goa Trance
1800
1900
1910
1920
1930
1940
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1960
1970
1980
1990
2000
Play
how music travels
the evolution of western dance music

755

Steroids or Not, the Pursuit Is On

Barry Bonds is taking aim at the career home run record. He needs only six more to tie Babe Ruth and 47 to equal Hank Aaron.

Lines are cumulative home runs.

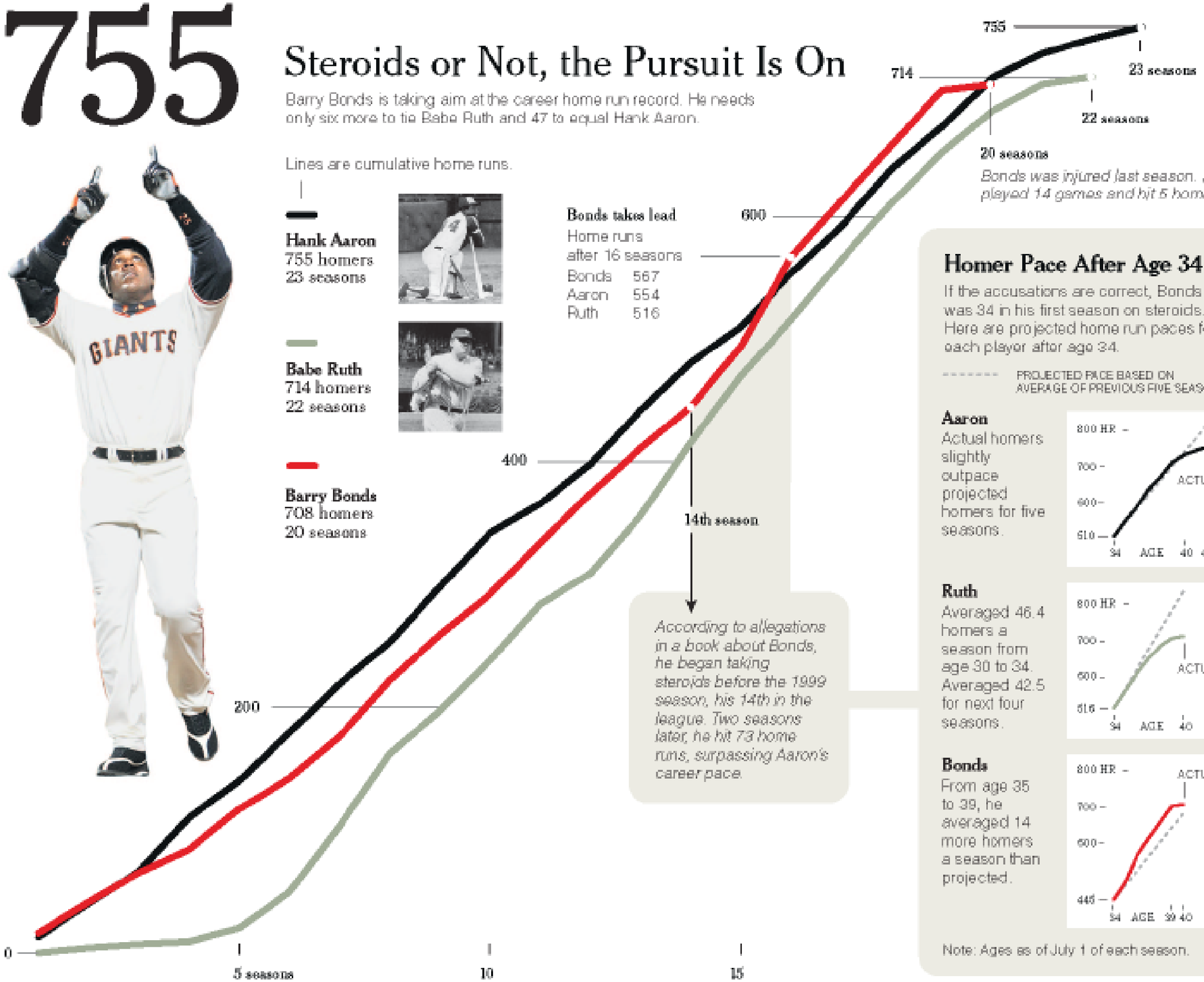
Hank Aaron
755 homers
23 seasons

Babe Ruth
714 homers
22 seasons

Barry Bonds
708 homers
20 seasons

Bonds takes lead
Home runs after 16 seasons

Bonds	567
Aaron	554
Ruth	516



Bonds was injured last season. He played 14 games and hit 5 homers.

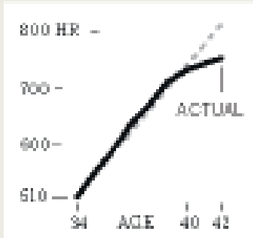
According to allegations in a book about Bonds, he began taking steroids before the 1999 season, his 14th in the league. Two seasons later, he hit 73 home runs, surpassing Aaron's career pace.

Homer Pace After Age 34

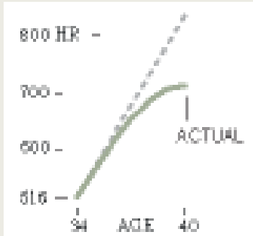
If the accusations are correct, Bonds was 34 in his first season on steroids. Here are projected home run paces for each player after age 34.

- - - - - - PROJECTED PACE BASED ON AVERAGE OF PREVIOUS FIVE SEASONS

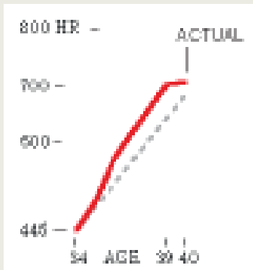
Aaron
Actual homers slightly outpace projected homers for five seasons.



Ruth
Averaged 46.4 homers a season from age 30 to 34. Averaged 42.5 for next four seasons.

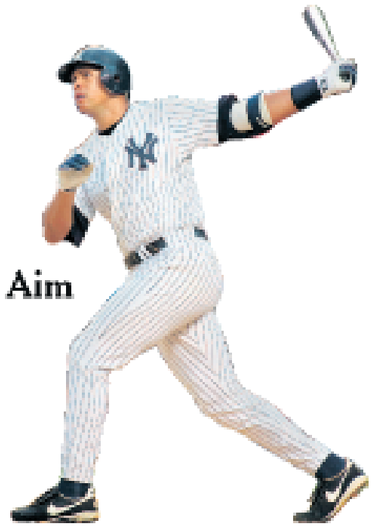


Bonds
From age 35 to 39, he averaged 14 more homers a season than projected.

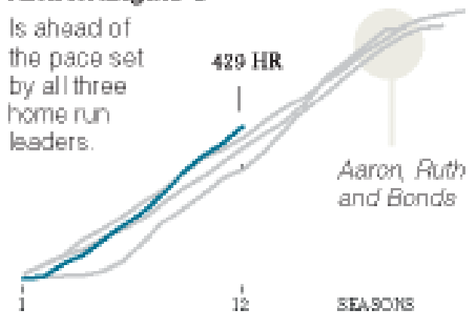


Note: Ages as of July 1 of each season.

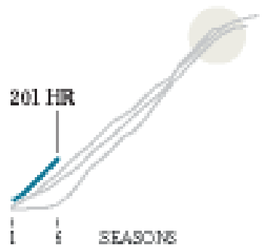
Others Taking Aim



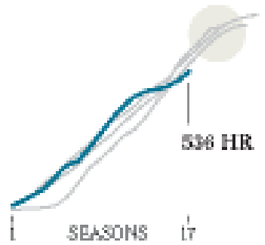
Alex Rodriguez ▲
Is ahead of the pace set by all three home run leaders.



Albert Pujols
Averaging 40 homers a season, he has started stronger than the three leaders did.

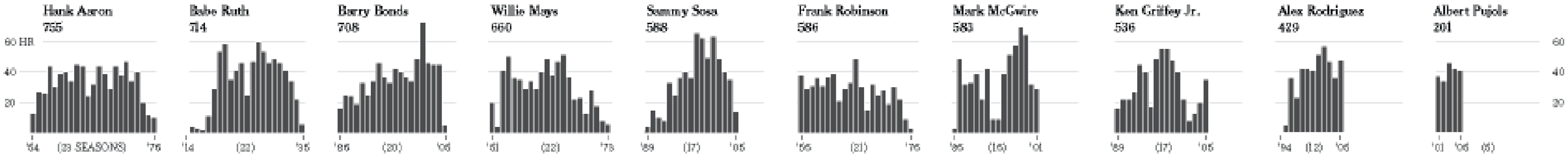


Ken Griffey Jr.
Many thought he would be the first to catch Ruth and Aaron until injuries limited his output.



Differing Paths to the Top of the Charts

The top seven players on the career home run list, along with a look at Griffey (12th), Rodriguez (37th) and Pujols (tied 257th).



15 times hit 30 or more (M.L. most).

Hit only 20 over first five seasons.

Averaged 52 from 2000 to 2004.

No one hit more from 1950-69.

Three 60-homer seasons is record.

Triple Crown in '66 (49, 122, .316).

First to hit 70 in a season.

Only McGwire had more in the 90's.

Youngest to reach 400 homers.

Second most ever in first five seasons.

Amanda Cox and Joe Ward/The New York Times

Nacemos comunicadores **visuales**

Nancy Duarte

Nacemos comunicadores **visuales**

Nancy Duarte

Vancouver Canucks

A Chartball Franchise History

The Canucks start as an expansion team in the 1970-71 season, in the NHL's East Division.

Canucks taste their first success, finishing atop the NHL's new Smythe Division.

Peaking at the end of the season, the team makes a memorable run to the Stanley Cup Finals.

The 1992-93 team is a scoring machine, scoring 348 goals in the regular season, a team record.

Point totals drop in the strike-shortened season of 1994-95. Only 48 games are played.

The Canucks emerge as the league's most exciting young team, but fall short in a seven game final series.

Retired Numbers:

12 Stan Smyl — 896 games, 262 goals, 411 assists

16 Trevor Linden — 1140 games, 342 goals, 405 assists

19 Markus Naslund — 884 games, 346 goals, 432 assists

Points

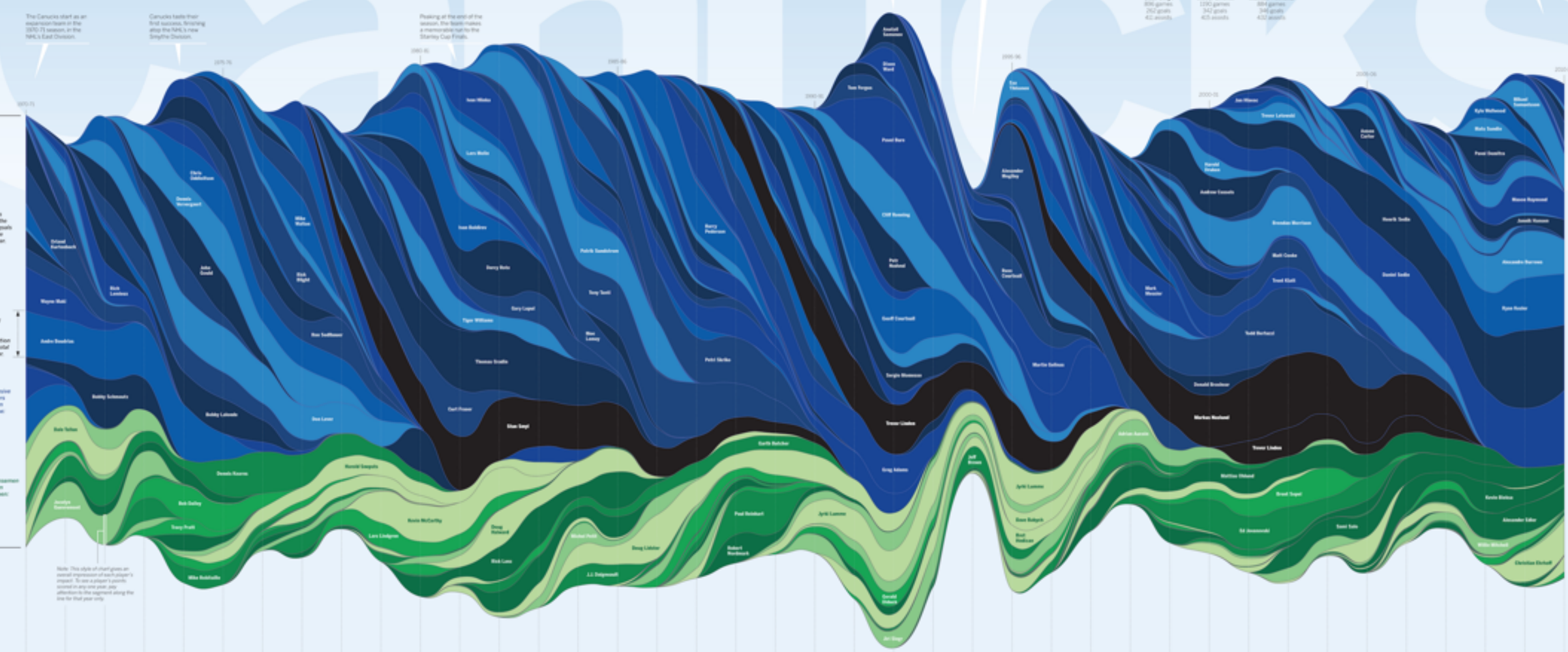
The height of this chart indicates the total number of goals and assists by the Canucks each year.

Each segment shows a player's contribution to that total each year.

Offensive players shown in blue.

Defensemen shown in green.

Note: This style of chart gives an overall impression of each player's impact. To see a player's points scored in any one year, pay attention to the segment along the line for that year only.



Primary goalie (Top defensemen (by plus/minus))

1970-71	1971-72	1972-73	1973-74	1974-75	1975-76	1976-77	1977-78	1978-79	1979-80	1980-81	1981-82	1982-83	1983-84	1984-85	1985-86	1986-87	1987-88	1988-89	1989-90	1990-91	1991-92	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
Charlie Hodge	Dunc Wilson		Gary Smith			Cesare Maniago		Gary Bromley	Glen Hanlon	Richard Brodeur							Kirk McLean			Troy Gamble	Kirk McLean						Arturs Irbe	Garth Snow	Felix Potvin	Bob Essensa	Dan Cloutier		Alex Auld	Roberto Luongo				

Regular season record (Wins / Losses / Ties / Points)

1970-71	1971-72	1972-73	1973-74	1974-75	1975-76	1976-77	1977-78	1978-79	1979-80	1980-81	1981-82	1982-83	1983-84	1984-85	1985-86	1986-87	1987-88	1988-89	1989-90	1990-91	1991-92	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
24	30	31	28	38	33	30	30	31	37	39	30	30	32	31	32	29	30	39	35	39	42	46	41	38	30	35	36	34	30	34	42	45	43	40	49	39	45	49	54

Eastern Division / Smythe Division / Pacific Division

Final standings (points)

1970-71	1971-72	1972-73	1973-74	1974-75	1975-76	1976-77	1977-78	1978-79	1979-80	1980-81	1981-82	1982-83	1983-84	1984-85	1985-86	1986-87	1987-88	1988-89	1989-90	1990-91	1991-92	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
1. BOS (121)	1. BOS (119)	1. MTL (115)	1. BOS (113)	1. VAN (101)	1. CH (85)	1. CH (125)	1. CH (105)	1. CH (75)	1. CH (85)	2. VAN (83)	2. VAN (77)	1. CH (77)	1. VAN (79)	1. VAN (76)	1. VAN (75)	1. VAN (81)	2. VAN (77)	1. CH (115)	1. CH (107)	1. CH (99)	1. LA (101)	1. VAN (101)	1. VAN (101)	1. CH (105)	1. CH (104)	1. CH (107)	1. CH (99)	1. CH (96)	1. CH (96)	1. CH (110)	1. CH (105)	1. VAN (101)	1. CH (101)	1. CH (101)	1. VAN (101)	1. MIN (98)	1. VAN (103)	1. VAN (103)	1. VAN (117)
2. NYR (109)	2. NYR (109)	2. BOS (107)	2. MTL (94)	2. CH (82)	2. VAN (81)	2. BOS (116)	2. CGY (105)	2. MTL (94)	2. CGY (85)	2. CGY (76)	3. CH (75)	2. CGY (76)	2. CGY (76)	2. MTL (86)	2. CGY (85)	2. CGY (85)	3. EDM (95)	2. LA (105)	2. EDM (95)	2. CGY (92)	2. CGY (87)	2. CGY (91)	2. VAN (81)	2. LA (87)	2. CGY (76)	2. LA (87)	2. LA (87)	2. EDM (91)	2. EDM (101)	2. VAN (94)	2. VAN (104)	2. LA (101)	2. CGY (96)	2. MTL (98)	2. CGY (95)	2. MIN (88)	2. CGY (95)	2. CGY (94)	2. CGY (108)
3. MTL (97)	3. MTL (105)	3. BOS (102)	3. NYR (94)	3. CH (62)	3. MTL (72)	3. MTL (92)	3. VAN (92)	3. CGY (85)	3. LA (84)	3. LA (75)	4. LA (68)	3. EDM (76)	3. LA (74)	3. CGY (76)	3. LA (74)	3. LA (74)	4. CGY (86)	3. EDM (84)	3. LA (76)	3. EDM (85)	3. EDM (85)	3. LA (84)	3. CGY (76)	3. EDM (84)	3. EDM (85)	3. EDM (85)	3. LA (87)	3. LA (87)	3. LA (86)	3. CGY (75)	3. CGY (87)	3. CGY (95)	3. CGY (87)	3. MTL (94)	3. MIN (88)	3. CGY (95)	3. MIN (88)	3. MIN (88)	3. MIN (88)
4. VAN (76)	4. BUF (92)	4. TOR (88)	4. BUF (88)	4. TOR (80)	4. BUF (76)	4. BUF (76)	4. TOR (77)	4. TOR (75)	4. MTL (81)	4. MTL (75)	5. CGY (71)	4. MTL (74)	4. MTL (71)	4. LA (82)	4. EDM (80)	4. LA (75)	5. LA (68)	4. MTL (74)	4. LA (74)	4. MTL (81)	4. LA (82)	4. MTL (87)	4. MIN (71)	4. LA (81)	4. MIN (76)	4. LA (81)	4. MIN (76)	4. CGY (75)	4. CGY (75)	4. MIN (81)	4. MIN (75)	4. CGY (92)	4. MIN (81)	4. CGY (75)	4. MIN (81)	4. CGY (75)	4. MIN (81)	4. MIN (82)	4. CGY (92)
5. VAN (70)	5. BUF (91)	5. TOR (83)	5. CHI (84)	5. MIN (62)	5. LA (68)	5. LA (68)	5. LA (68)	5. LA (71)	5. MTL (51)	5. CGY (57)	5. MTL (62)	5. LA (66)	5. LA (66)	5. VAN (70)	5. MTL (66)	5. MTL (62)	5. MTL (64)	5. VAN (70)	5. MTL (64)	5. LA (65)	5. MTL (62)	5. CGY (76)	5. CGY (66)	5. CGY (66)	5. CGY (75)	5. CGY (75)	5. CGY (67)	5. CGY (75)	5. CGY (75)	5. MIN (65)	5. MIN (65)	5. CGY (87)	5. MIN (65)	5. CGY (75)	5. MIN (65)	5. VAN (88)	5. CGY (87)	5. CGY (92)	5. CGY (92)
6. VAN (70)	6. BUF (52)	6. CHI (61)	6. CGY (68)	6. CGY (68)	6. CGY (61)	6. CGY (68)	6. CGY (61)	6. MTL (52)	6. CGL (51)	6. MTL (52)																													
7. BUF (52)	7. VAN (68)	7. VAN (52)	7. VAN (56)	7. VAN (56)																																			
8. NYR (51)		8. NYR (51)	8. NYR (56)																																				

Playoffs (Canucks' series)

1970-71	1971-72	1972-73	1973-74	1974-75	1975-76	1976-77	1977-78	1978-79	1979-80	1980-81	1981-82	1982-83	1983-84	1984-85	1985-86	1986-87	1987-88	1988-89	1989-90	1990-91	1991-92	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
				Lost to MON (4-1)	Lost to NYI (2-0)			Lost to PHI (2-1)	Lost to BUF (3-1)	Lost to BUF (3-0)	Beat CAL (3-0) Beat LAK (4-1) Beat CHI (4-1)	Lost to CHI (3-0)	Lost to CHI (3-1)		Lost to EDM (3-0)			Lost to CHI (4-1)		Beat WPG (4-1) Lost to EDM (4-2)	Beat WPG (4-2) Beat LAK (4-2)	Beat CAL (4-1) Beat DAL (4-1) Beat TOR (4-1)	Beat STL (4-3) Lost to CHI (4-2)	Lost to LAK (4-2)										Beat DAL (4-2) Lost to MIN (4-2)		Beat STL (4-0) Lost to CHI (4-3)	Beat LAK (4-2) Lost to CHI (4-2)	Beat CHI (4-3) Beat NSH (4-2) Beat SJS (4-1) Lost to BOS (4-3)
Stanley Cup champ: MTL	BOS	MTL	PHI	PHI	MTL	MTL	MTL	MTL	NYI	NYI	Lost to NYI (4-1)	NYI	EDM	EDM	MTL	EDM	EDM	CGY	EDM	PIT	PIT	MTL	Lost to NYR (4-1)	NJD	COL	DET	DET	DAL	NJD	COL	DET	NJD	TBL	CAR	ANA	DET	PIT	CHI	

Coach

1970-71	1971-72	1972-73	1973-74	1974-75	1975-76	1976-77	1977-78	1978-79	1979-80	1980-81	1981-82	1982-83	1983-84	1984-85	1985-86	1986-87	1987-88	1988-89	1989-90	1990-91	1991-92	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
H. Laycoe		H. Stasiuk	B. McCreedy	P. Maloney		O. Kloppenburg		H. Neale			R. Nelson		B. Lofthouse	T. Watt	B. McCammon					P. Quinn		R. Ley			T. Renney		W. Keenan	M. Crawford							A. Vigneault			

GM

1970-71	1971-72	1972-73	1973-74	1974-75	1975-76	1976-77	1977-78	1978-79	1979-80	1980-81	1981-82	1982-83	1983-84	1984-85	1985-86	1986-87	1987-88	1988-89	1989-90	1990-91	1991-92	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
	Bud Poile		Hal Laycoe	Phil Maloney		Jake Milford			Harry Neale					Jake Gordon			Pat Quinn											Brian Burke						Dave Nonis			Mike Gillis	

Points

The height of this shape indicates the total number of goals and assists by the Canucks each year.

Each segment shows a player's contribution to that total each year.

Offensive players shown in blue:

Chris Oddleifson

Dennis Ververgaert

Mike Walton

Orland Kurtenbach

John Gould

Rick Blight

Rich Lemieux

Wayne Maki

Ron Sedlbauer

Andre Boudrias

Bobby Schmautz

Bobby Lalonde

Don Lever

Dale Tallon

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HOME AND AWAY

CASUALTIES: AFGHANISTAN IRAQ

Search

Map view | List view

Showing 3,339 US and Coalition casualties

Hometown Locations

Afghanistan

3,325 casualties
2,429 hometowns

United States of America
Mexico
Bermuda
Bahamas
Cayman Islands
Belize
Guatemala
El Salvador
Anguilla
Dominica
Barbados
Aruba
Trinidad and

Age

18 21 25 30 35 40 45 50 55 60

Location: (Countries & U.S. states)

Date

2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013

Totals: 3,345 deaths | 18,957 wounded | Last updated 7/17/2013

CNN Home | Video | World | U.S. | Africa | Asia | Europe | Latin America | Middle East | Business | World Sport | Entertainment | Travel | iReport

HOME AND AWAY

CASUALTIES: AFGHANISTAN IRAQ

Search

Map view | List view

Showing 3,339 US and Coalition casualties

Hometown Locations

Afghanistan

Turkmenistan

Saint Pierre and Miquelon

Azores

2 casualties
Zaragoza, Spain

Bermuda

Madeira

Morocco

Canary Is.

Bahamas

Western Sahara

Mauritania

Cayman Islands

Anguilla

Mali

Dominica

Cape Verde

Aruba

Barbados

Senegal

Costa Rica

Trinidad and Tobago

Guinea

Burkina F

Badghis province

7 casualties

- Sgt. Justin Michael Hansen
- Staff Sgt. David Pirie Day
- Gunnery Sgt. Robert Lee Gilbert II
- Gunnery Sgt. Jonathan William Gifford
- Pfc. Billy Gene Anderson
- Gunnery Sgt. Daniel Joseph Price
- Sgt. Juan Antonio Abril Sanchez

Age

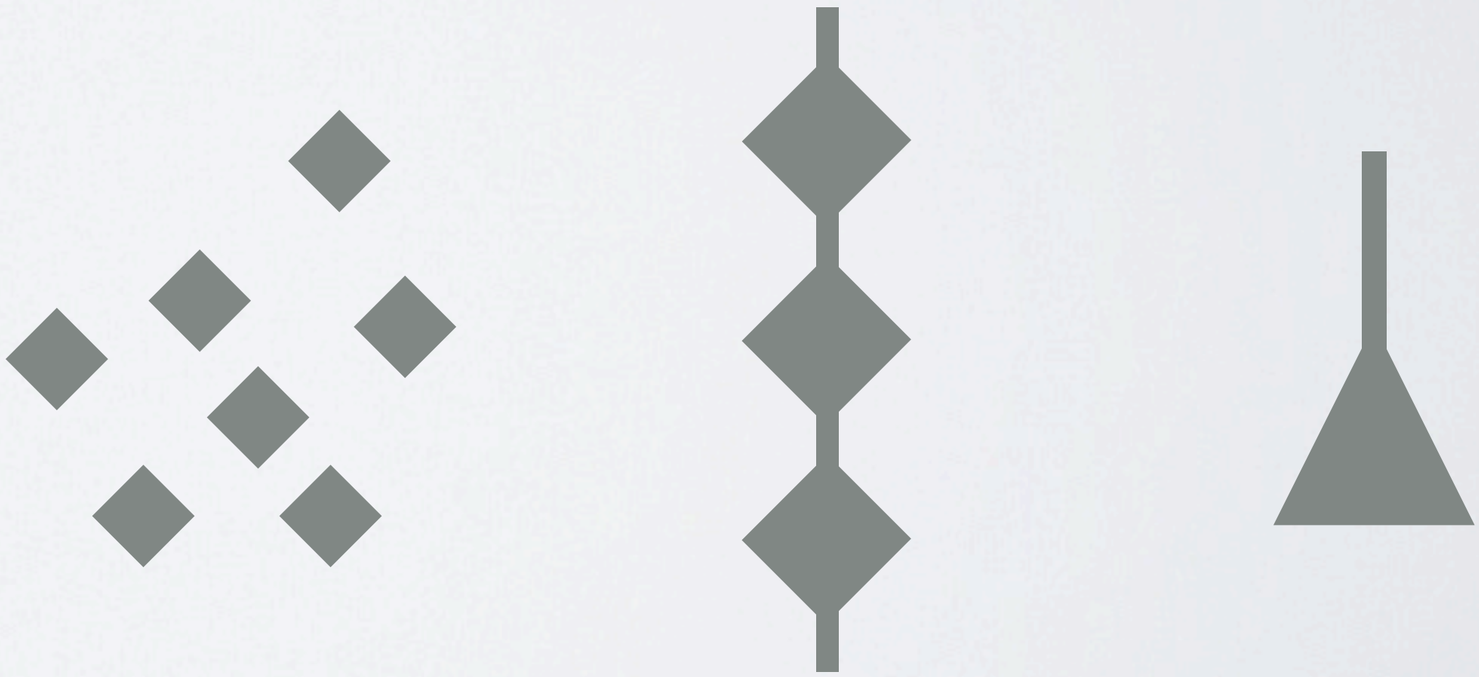
18 21 25 30 35 40 45 50 55 60

Location: (Countries & U.S. states)

Date

2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013

Totals: 3,345 deaths | 18,957 wounded | Last updated 7/17/2013

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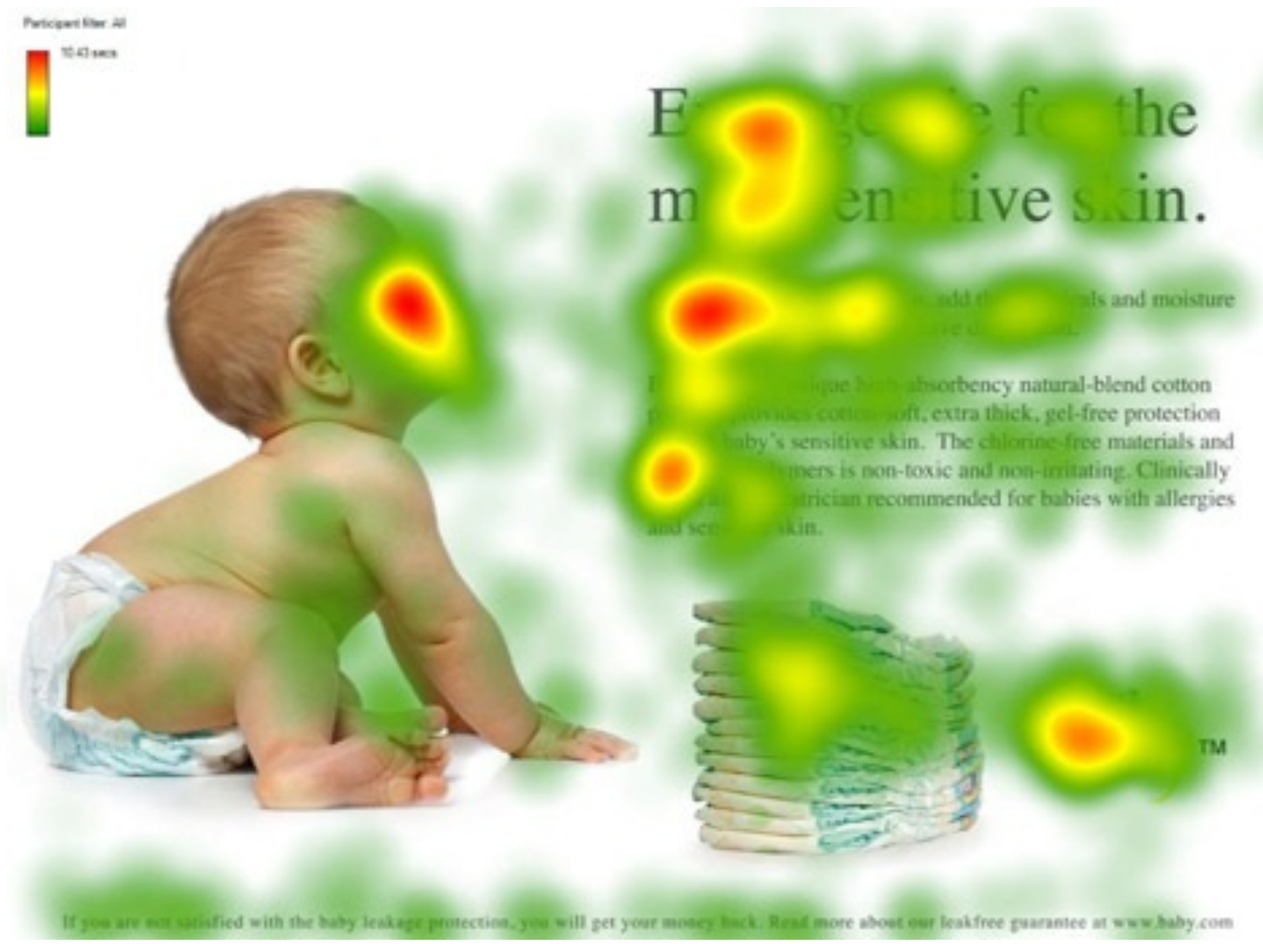
you have diaper rash.
's unique high-absorbency natural-blend cotton
des cotton-soft, extra thick, gel-free protection
you baby's sensitive skin. The chlorine-free materials and
sorbent polymers is non-toxic and non-irritating. Clinically
tested and pediatrician recommended for babies with allergies
and sensitive skin.
Baby™
If you are not satisfied with the baby leakage protection, you will get your money back. Read more about our leakfree guarantee at www.baby.com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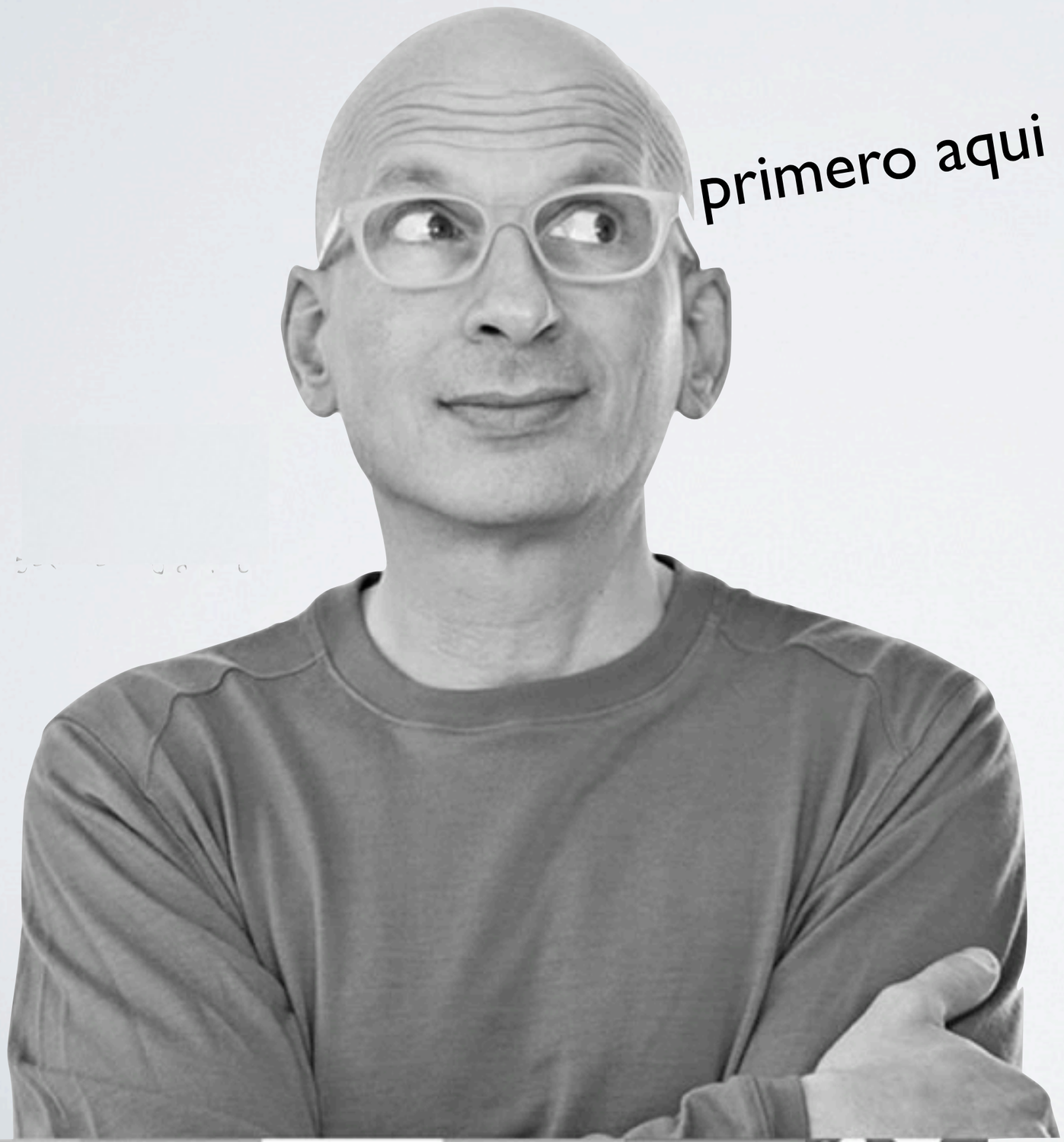
and sen skin.
™
If you are not satisfied with the baby leakage protection, you will get your money back. Read more about our leakfree guarantee at www.baby.com



primero aqui

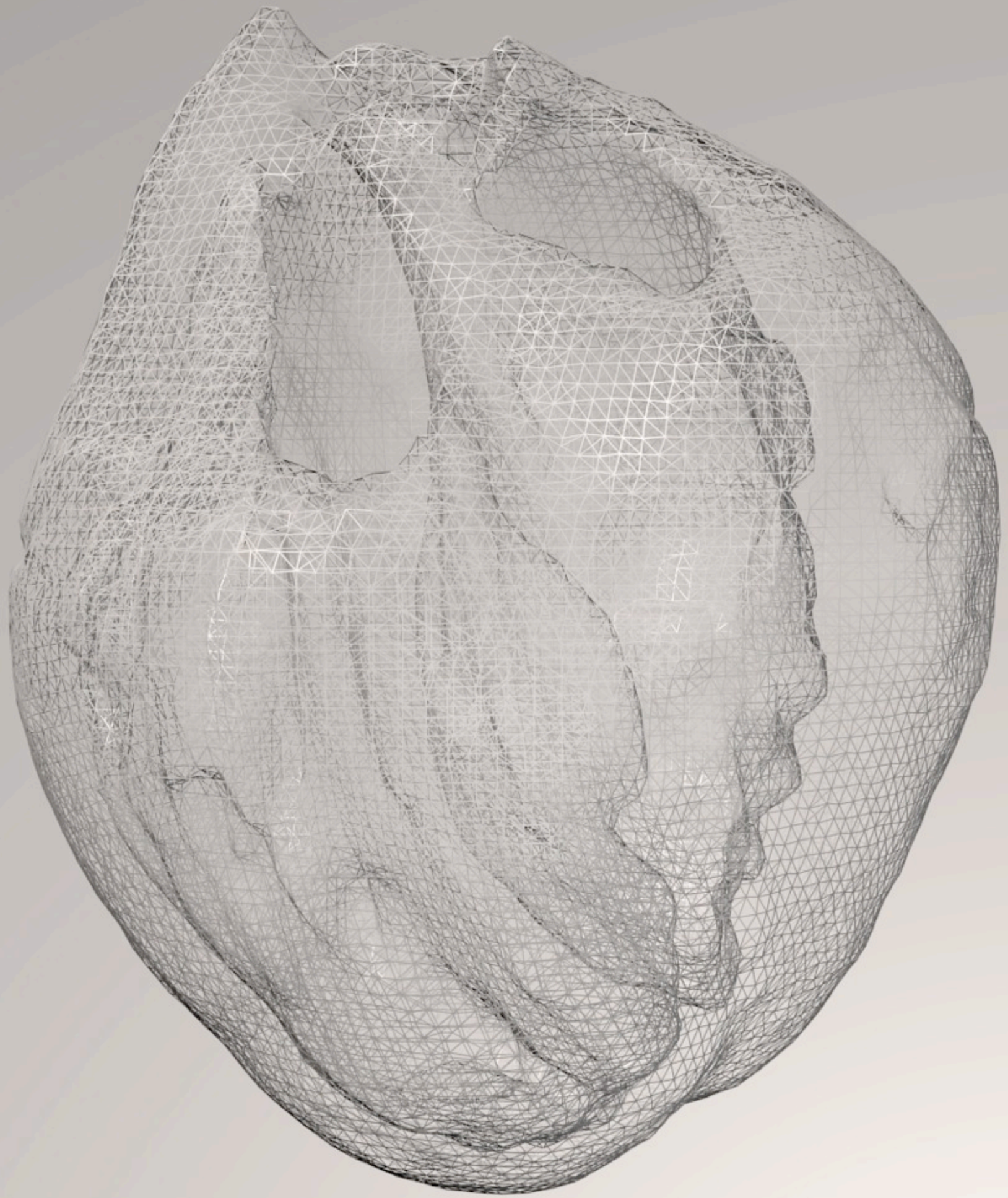
luego
abajo

termina
aqui

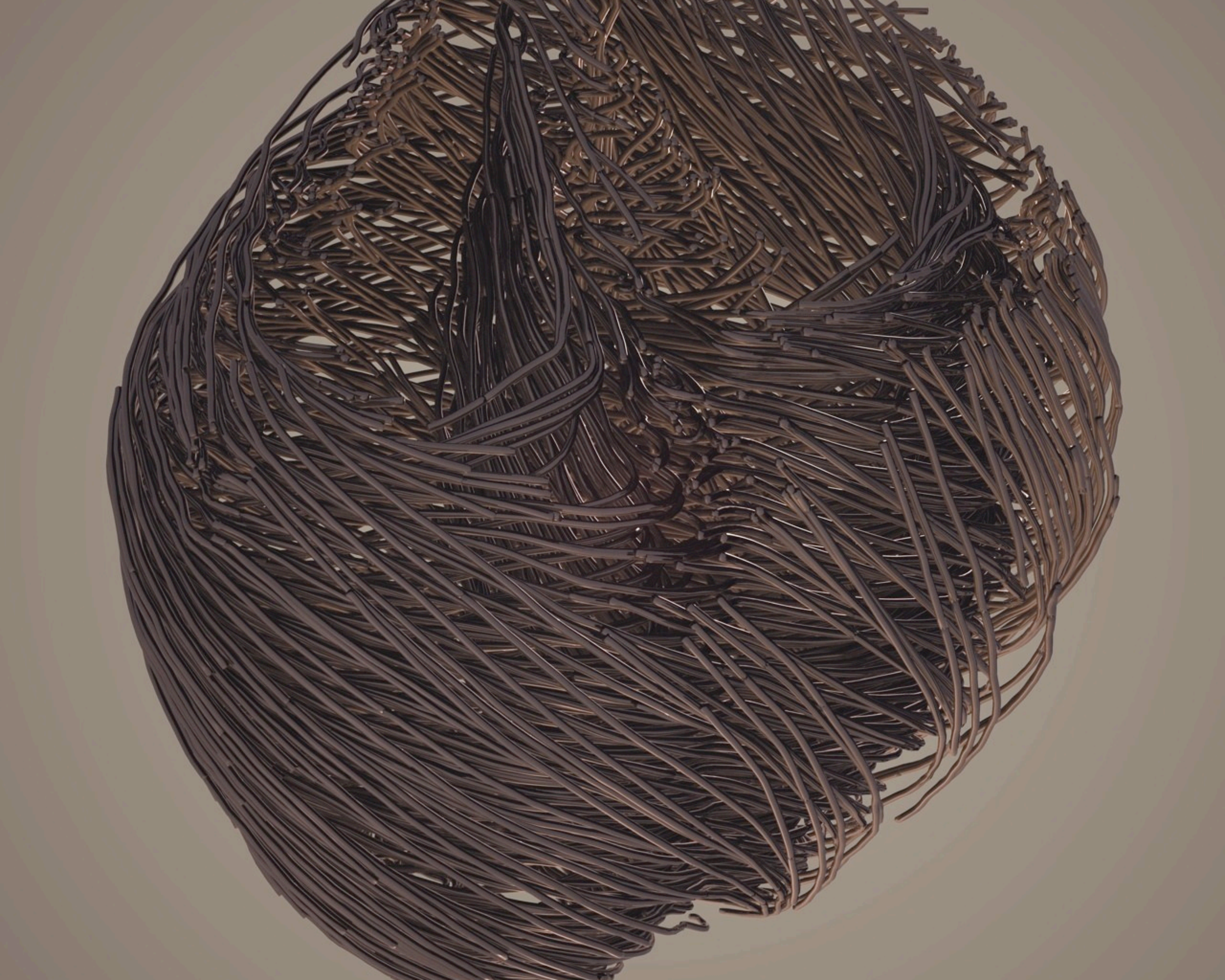
Miramos a donde
mira la gente

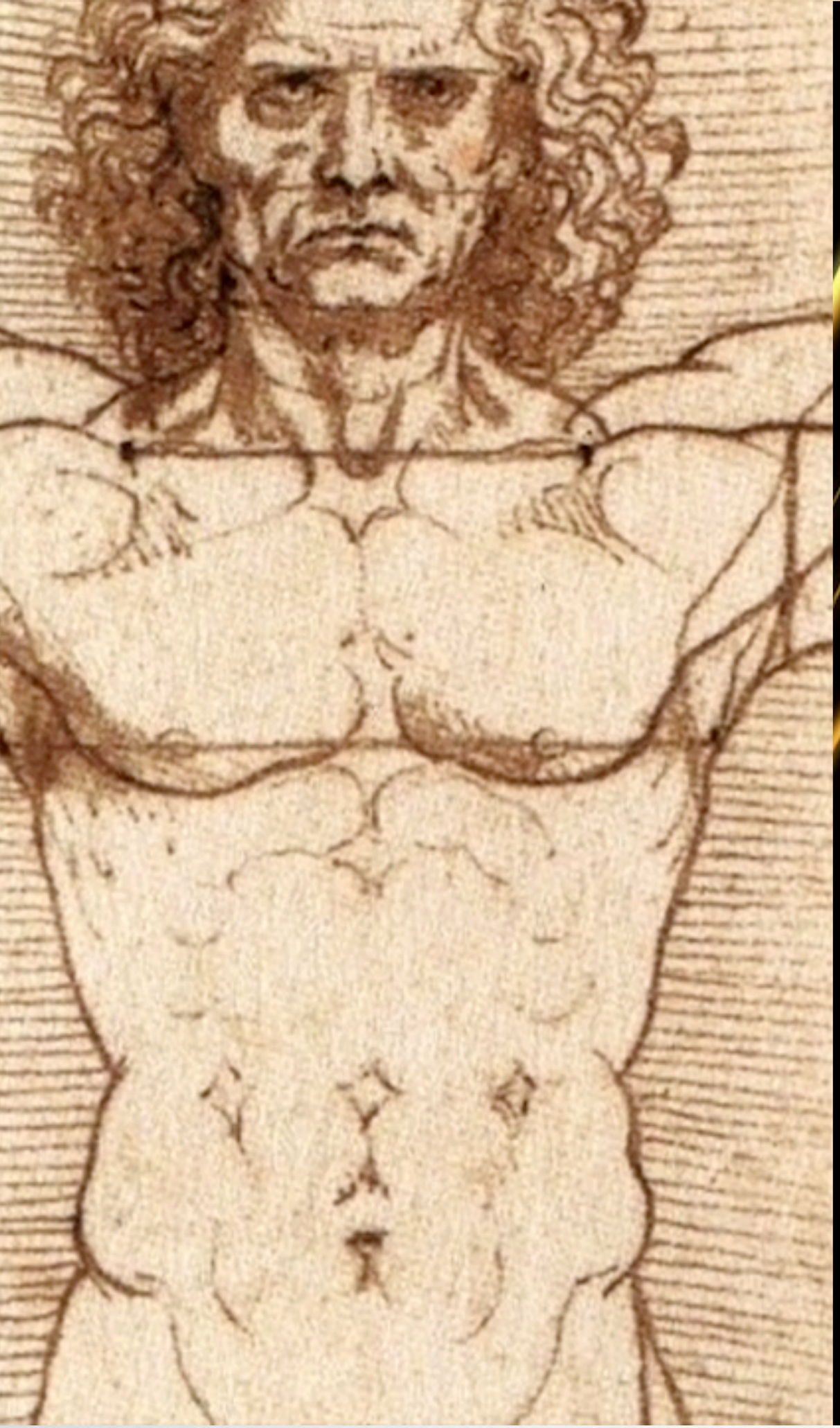
Continuamos

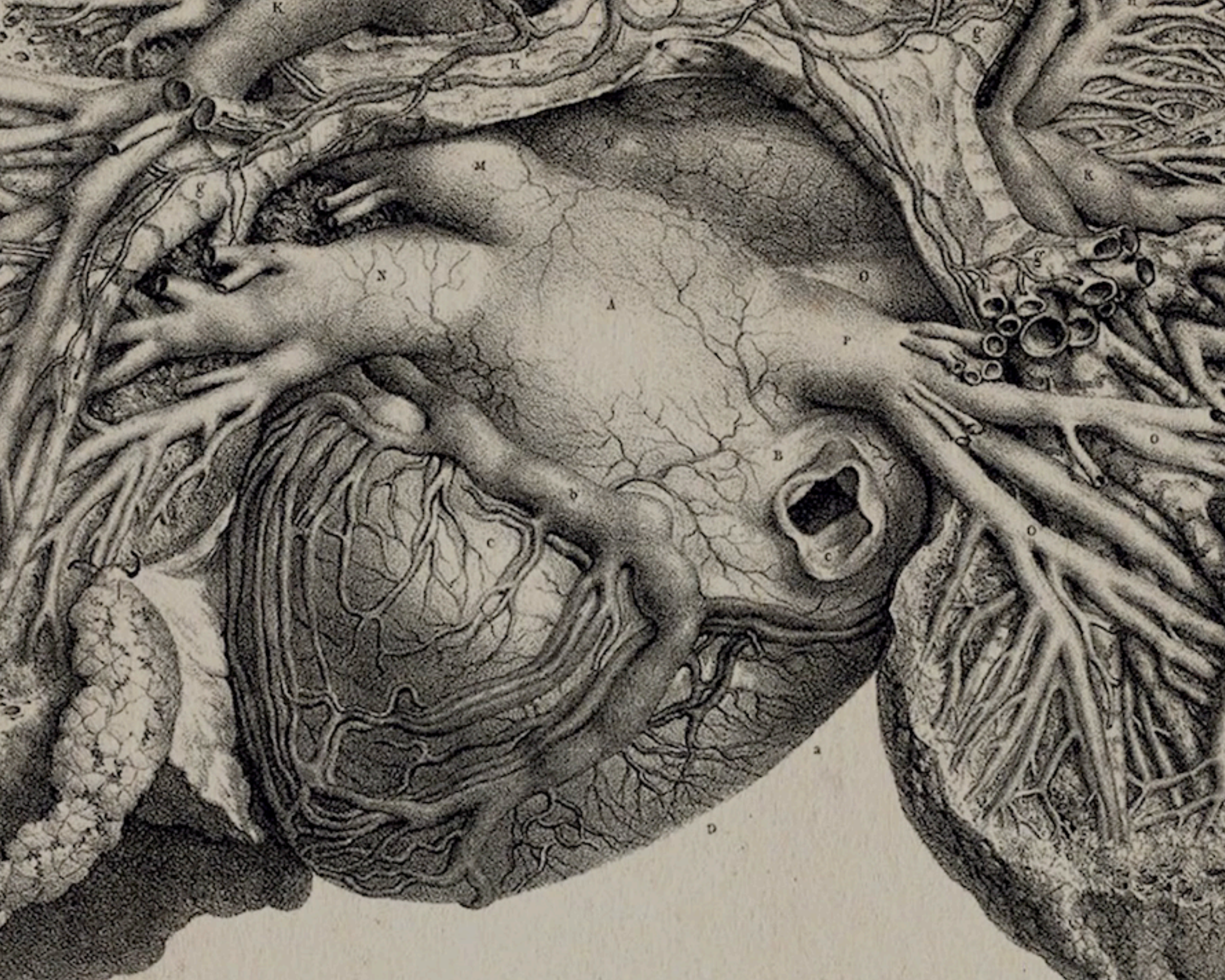
Alya red



Para ver el video pulse aqui



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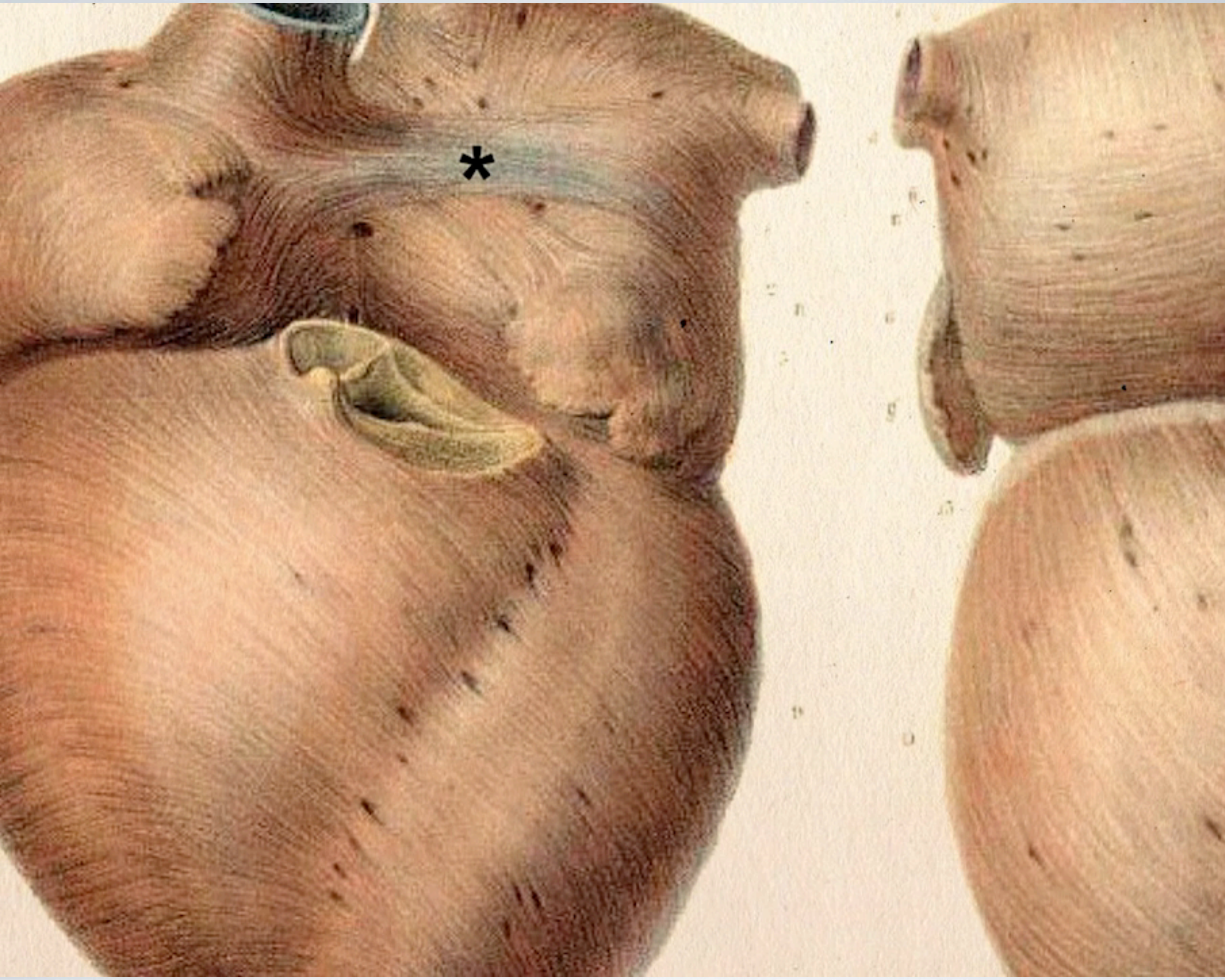
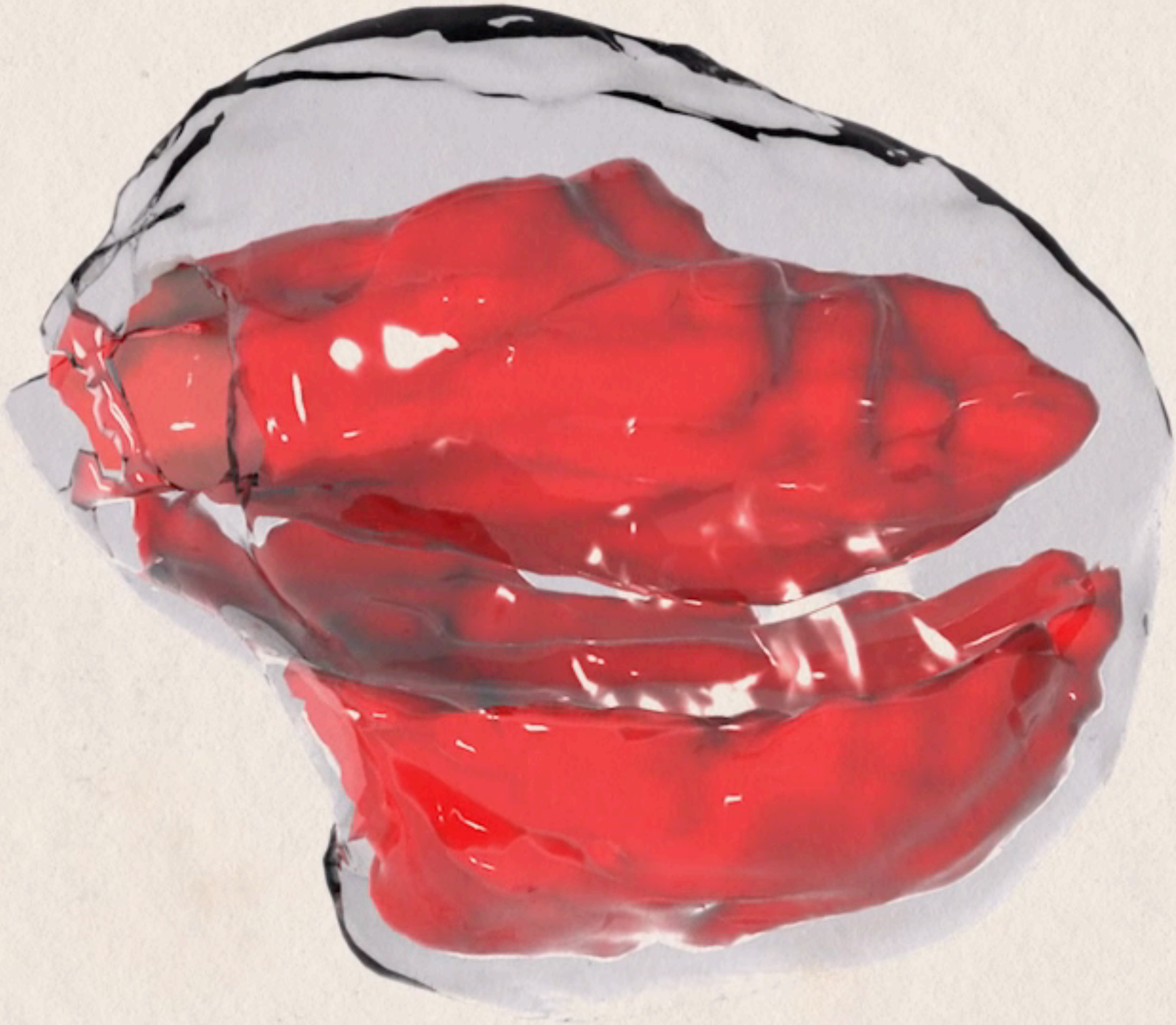
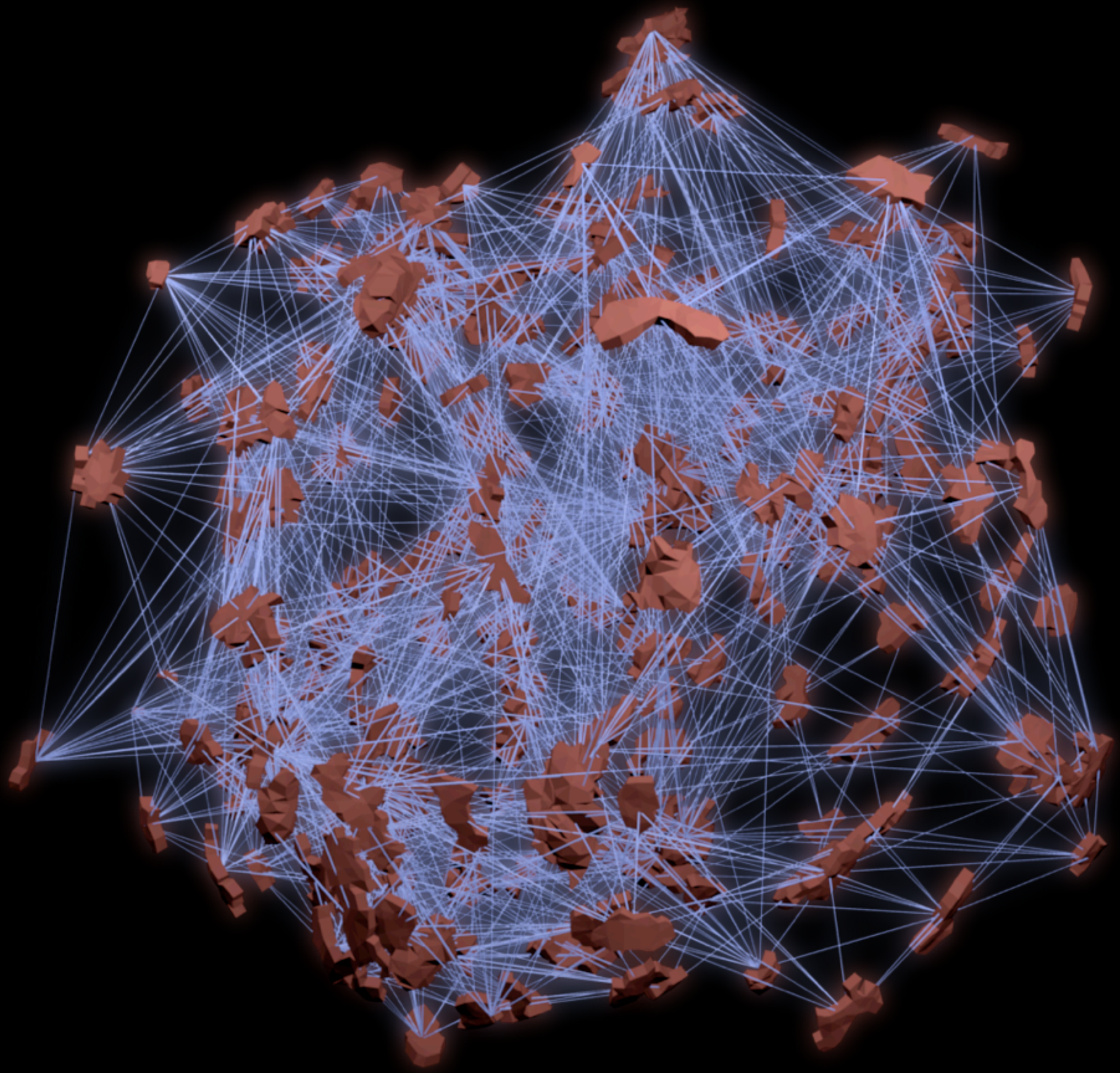
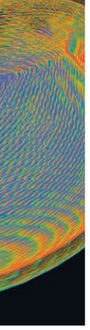


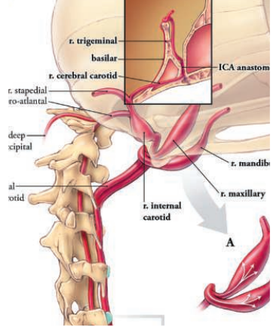


Electrophysiology potential model
propagation equation through
macroscopic continuous media

Electrophysiology potential mo
propagation equation throu
macroscopic continuous me









2012 Visualization Challenge

Ten years ago, *Science* and the National Science Foundation (NSF) launched a unique experiment: an international competition to recognize the best examples of projects that bring scientific information to life. The goal was to encourage new ways to visualize data—efforts that are increasingly important for conveying scientific principles and ideas across disciplines and to the general public, and for revealing the hidden beauty of structures on scales from nanometers to the cosmos. The following pages showcase the winners of the 10th in what has become the annual International Science and Engineering Visualization Challenge.

The 10th anniversary winners merge biology and physical science in interesting ways. They include a "wiring diagram" of the macaque brain (featured on the cover of this issue), which inspired a new type of computer chip; a scanning electron micrograph that reveals the crystal structure of a sea urchin's tooth; a poster showing how the owl manages to swivel its head without shutting off blood to its brain; and a video of a computer model of the heart that marries imaging techniques with high-powered computing.

We received 215 entries from 18 countries. A committee of staff members from *Science* and NSF screened the entries. Those selected as finalists were posted on NSF's Web site, and visitors were invited to vote for their top choice in each category. A total of 3155 votes came in; entries that received the most votes were named the "People's Choice." Independently, an outside panel of experts in scientific visualization reviewed the finalists and selected the winners. The winning entries are featured on the following pages, in a slideshow and podcast at www.sciencemag.org/special/vis2012, and at www.nsf.gov/news/scivis. Some entries were put together by large teams, not all of whose members could be listed in print; the online presentations provide more details. Tarri Joyner of NSF organized this year's challenge.

We encourage you to submit applications for next year's challenge, details of which will be available on NSF's Web site, and to join us in celebrating this year's winners.

JUDITH GAN, DIRECTOR, OFFICE OF LEGISLATIVE AND PUBLIC AFFAIRS, NSF
COLIN NORMAN, NEWS EDITOR, *SCIENCE*

Science

JUDGES

Michael K. Reddy
National Institutes of General Medical Sciences
Bethesda, Maryland

Corinne Sandone
Johns Hopkins University School of Medicine
Baltimore, Maryland

Tierney Thys
National Geographic Explorer
Carmel, California

Thomas Wagner
NASA
Washington, D.C.

Text by Emily Underwood

Design by Kay Engman

Video

FIRST PLACE WINNER AND PEOPLE'S CHOICE

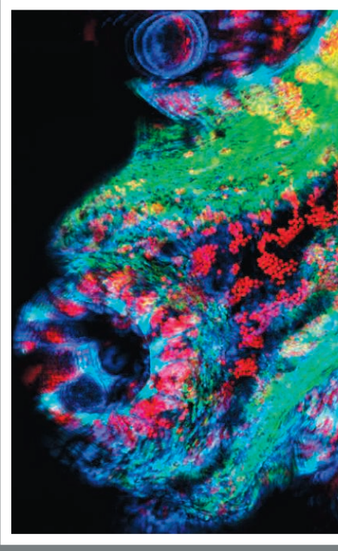
Alya Red: A Computational Heart

Guillermo Marin, Fernando M. Cucchietti, Mariano Vázquez, and Carlos Tripiana, Barcelona Supercomputing Center

From this tangled swirl of fibers, scientists hope to divine the deepest secrets of the human heart. Based on MRI data, each colored strand represents linked cardiac muscle cells that transmit electrical current and trigger a model human heartbeat. The image is an artistic rendering of Alya Red, a new computer model of the heart at the Barcelona Supercomputing Center that marries modern medical imaging techniques with high-powered computing.

Despite centuries of study, scientists are still largely baffled by the heart's complex electrical choreography, says physicist Fernando Cucchietti, who helped produce the video. When faced with the challenge of presenting Alya Red to a general audience through video, he says, "It took a lot of work to get a script that was engaging, but still scientifically deep enough for an expert eye to see interesting details." The most challenging part was to get the heart fibers in the image above to move in a realistic way, Cucchietti says. At one point, he says, the animation showed the electrical currents moving backwards. "We had to keep going back to the scientists—did we mess something up?"

"We wanted to create a sense of wonder at the complexity" of the heart itself, he says. The awe wasn't lost on the judges. "I was literally blown away," says Michael Reddy. "After the first time I watched the video, I thought, "I've just changed the way I thought about a heart."



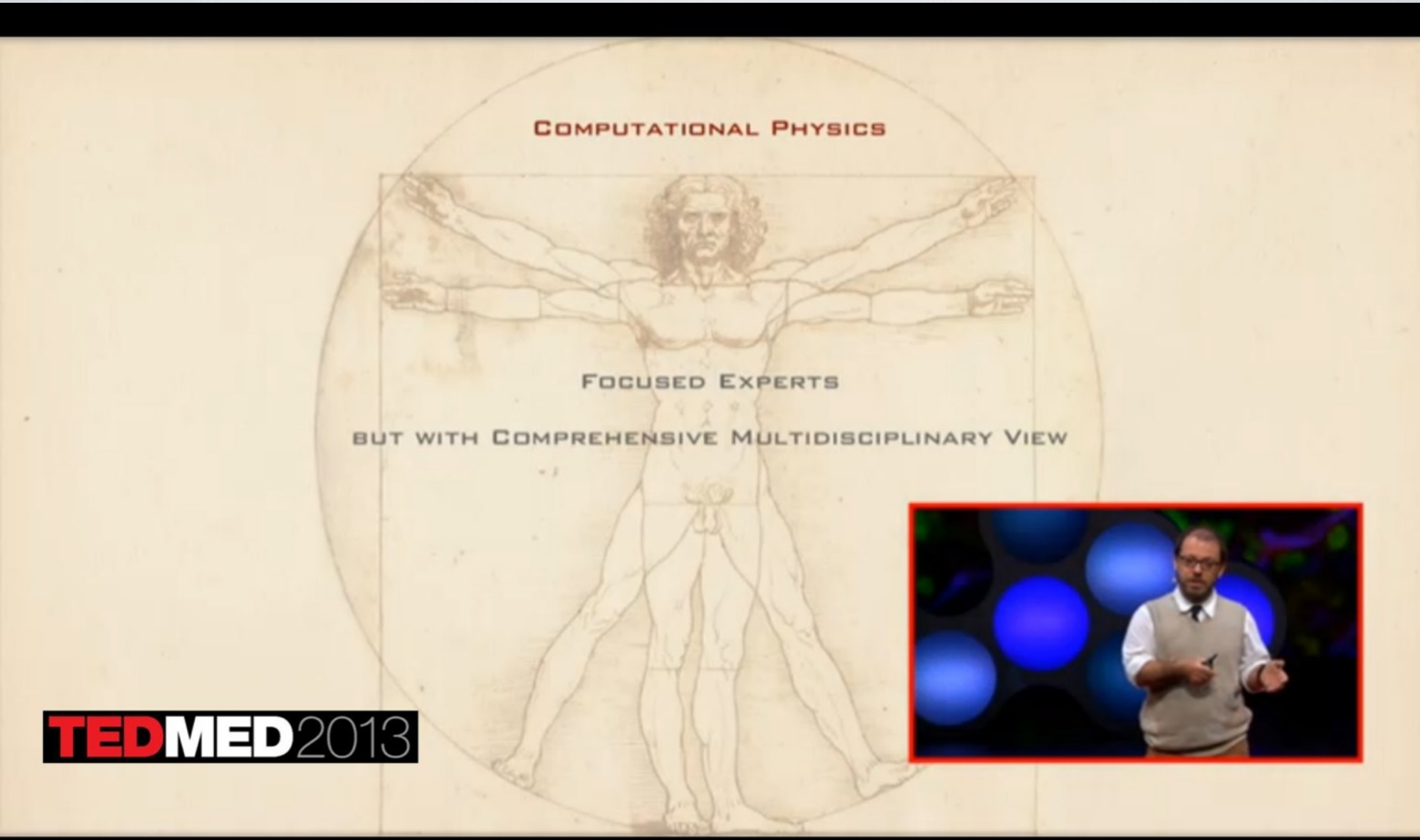
HONORABLE MENTION

Observing the Coral Symbio
Scanning Confocal Microsc

Christine E. Farrar, Zac H. Forsman, Ru
Leong, and Robert J. Toonen, Universi

No dyes or digital software
liant color of these corals—
own. Fluorescent molecules, inna
to the red algae that live inside an
shine like Christmas lights under
lengths of light emitted by a confo

When she saw the corals unde
first time, "my jaw just dropped,"
coral biologist at the University of
and the narrator of the video. "Mo
corals are inanimate rocks," she
case how beautiful and dynamic
mals." In the video, which compil
three-dimensional, time-lapse ani
extend and retract their glowing
tures crawl over the corals, all pa
threatened ecosystem. In the futu
might be possible to use confocal
sify different coral species or diag
by their fluorescent patterns. Prio
technique, she says, "that was no
thinking about coral biology."



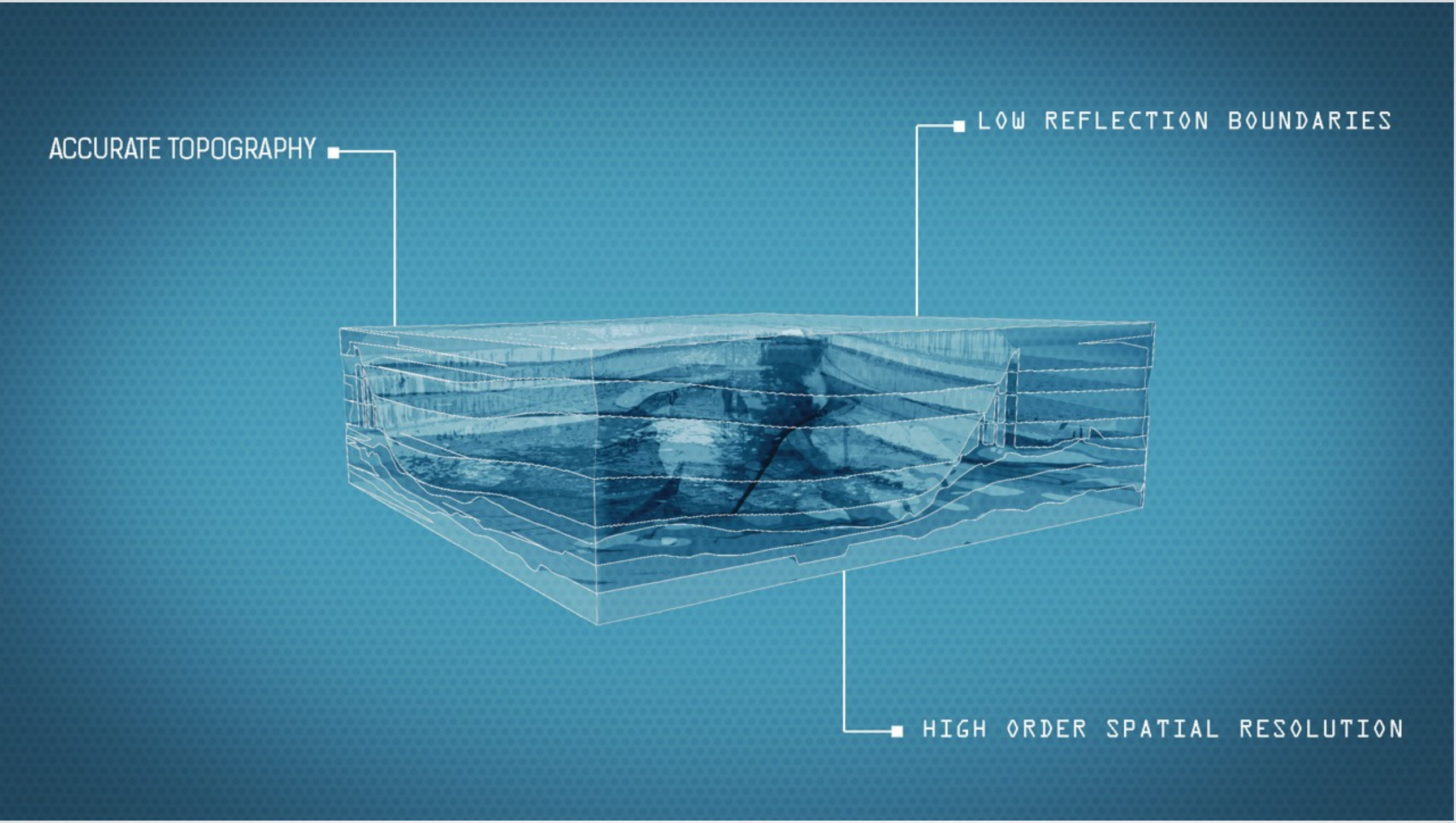
Washington, Abril 2013

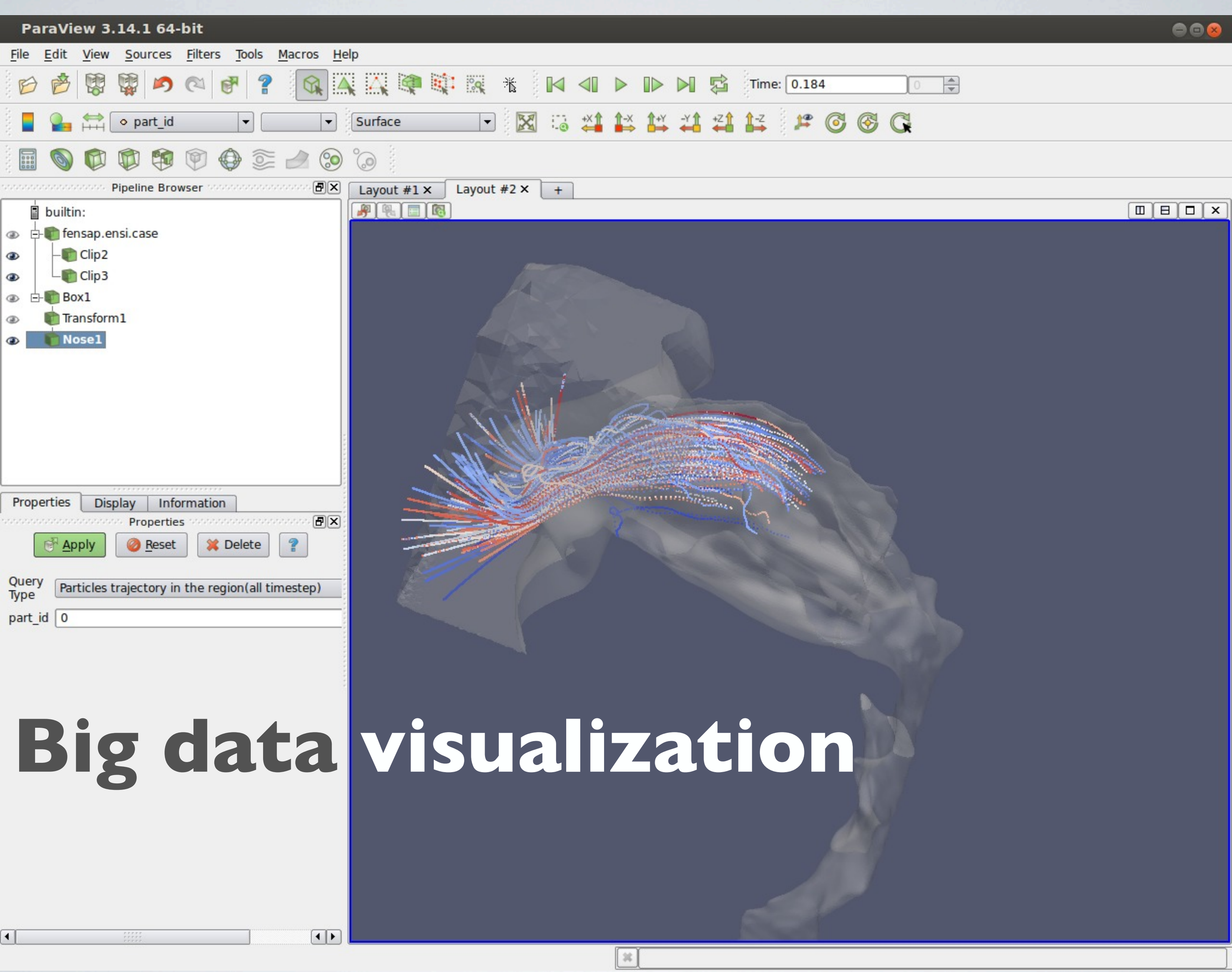
Proyectos 2013

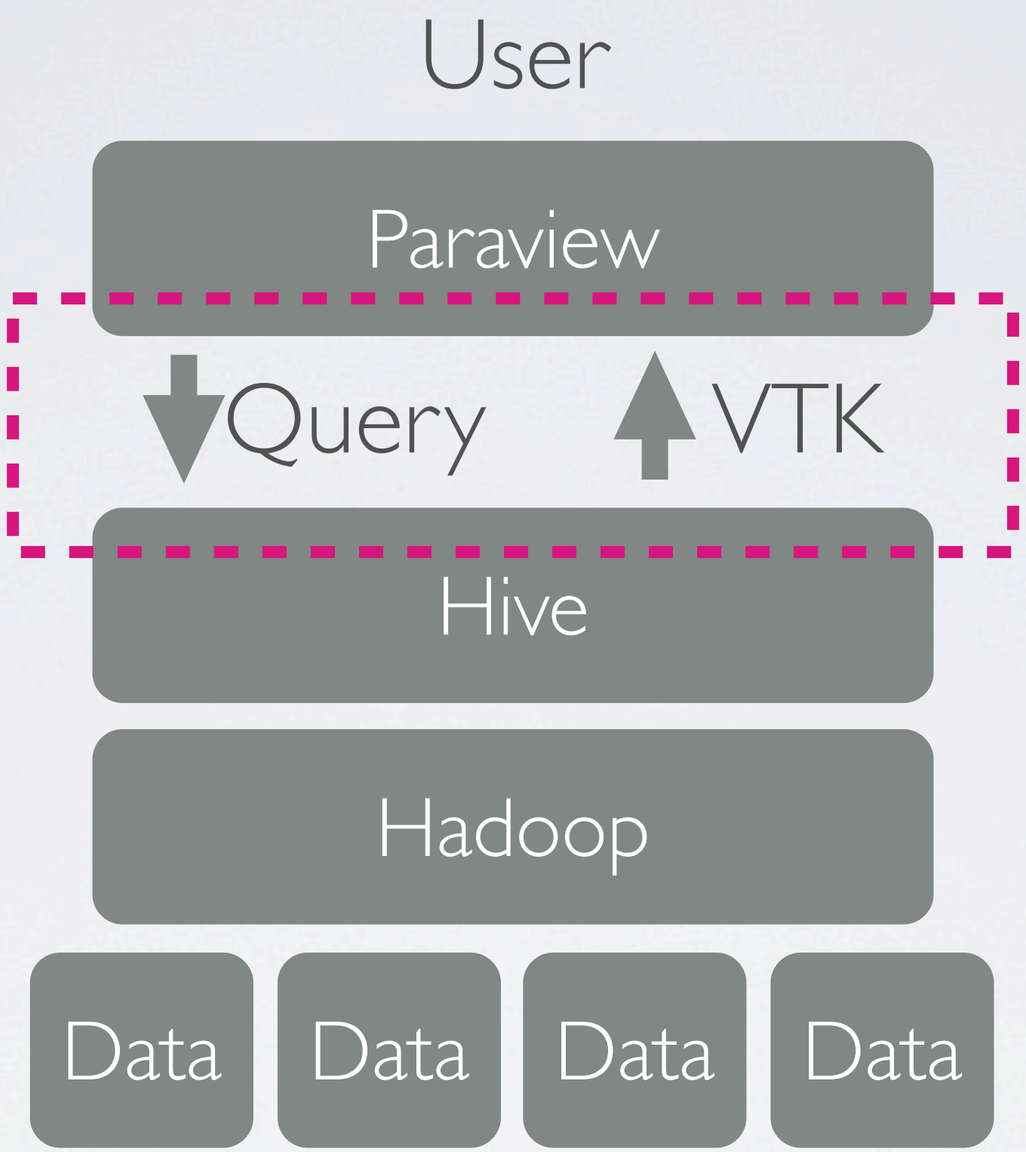
Supercomputers

Simulpast

Exploración geofísica




ParaView 3.14.1 64-bit
File Edit View Sources Filters Tools Macros Help
Time: 0.184
part_id
Surface
Pipeline Browser
builtin:
fensap.ensi.case
Clip2
Clip3
Box1
Transform1
Nose1
Layout #1
Layout #2
Properties
Display
Information
Properties
Apply
Reset
Delete
Query Type
Particles trajectory in the region(all timestep)
part_id
0
Big data visualization


User
Paraview
Query
VTK
Hive
Hadoop
Data
Data
Data
Data

Barcelona Supercomputing Center

Centro Nacional de Supercomputación

Posición abierta:

Human Interface Designer

fernando.cucchietti@bsc.es