

# d3 part ii: intro to d3

[go.ncsu.edu/d3\\_resources](http://go.ncsu.edu/d3_resources)

**who**

who **what**

who what **why**



who what **why**

please feel free to  
**ask questions!**

WE

ARE

NOT

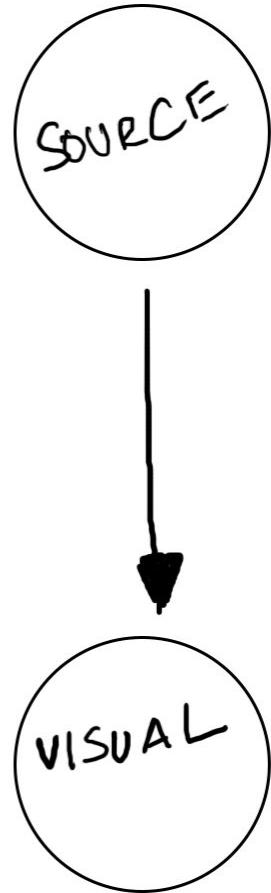
# EXPERTS

we don't know  
everything

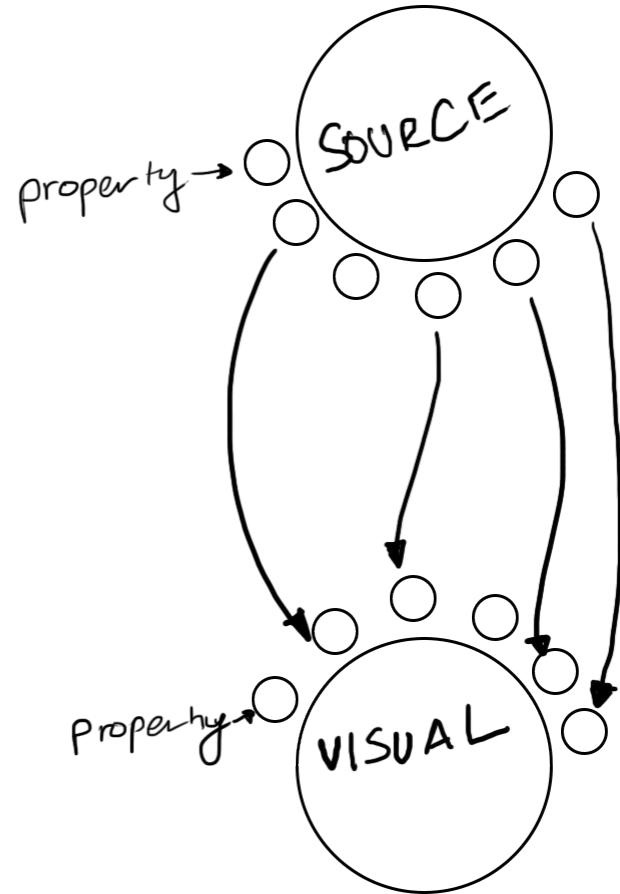
we'll learn together

what is a  
**visualization?**

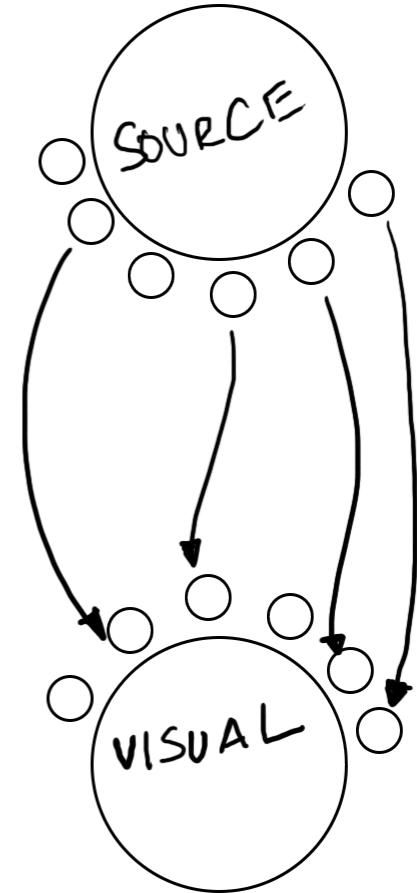
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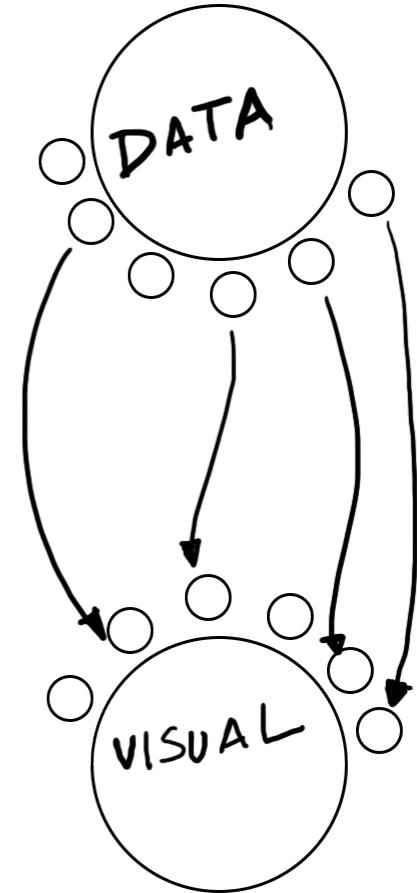
# what is a visualization?



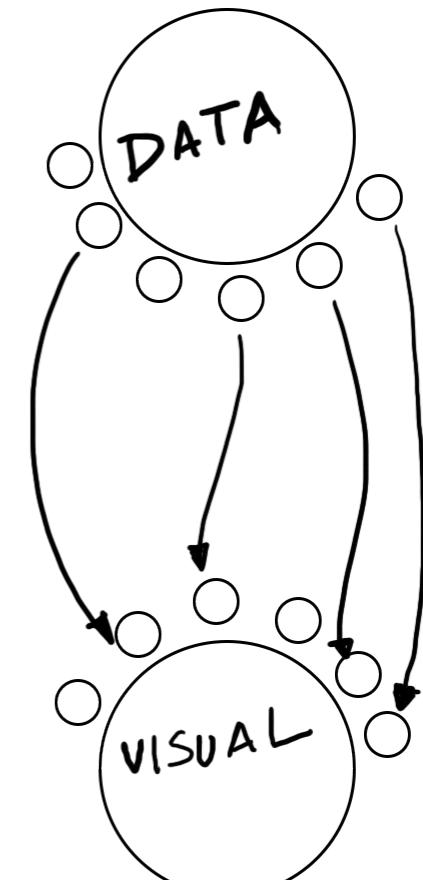
# what is **data** visualization?



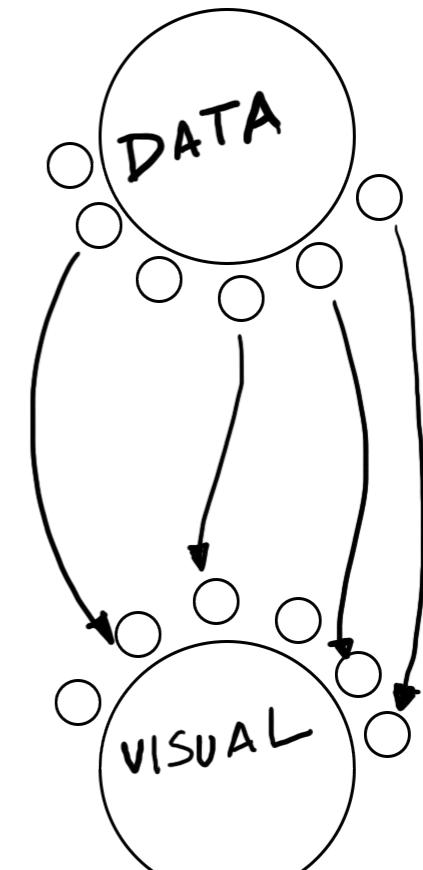
# what is **data** visualization?



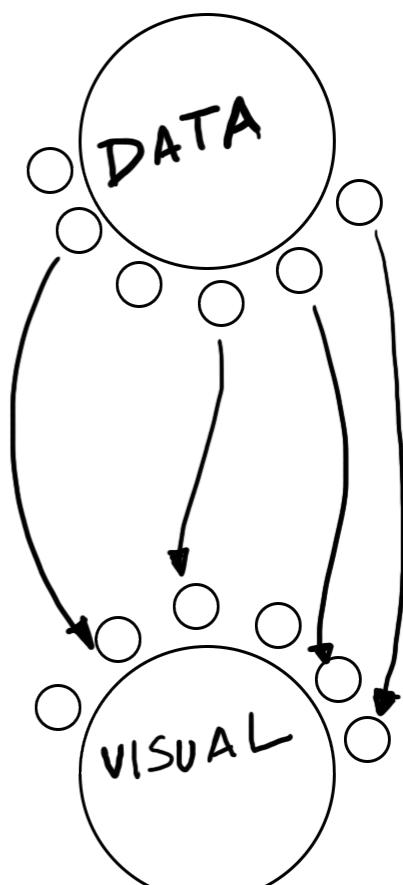
A	B	C	D	E	F	G	H	I	J	K	L		
1	song	album	artist	year	duration	genre	song_hotness	artist_hotness	location	latitude	longitude	loudness tem	
2	Myth Takes	Myth Takes	III	2007	148.98649	dance-punk	0	0.462131081	Not available	37.15735675	-63.93335787	-7.901	
3	Rompan Todo	Un Mundo De Sensaciones	2 Minutos	2008	88.58077	skate punk	0.372508039	0.37248298	Not available	37.15735675	-63.93335787	-3.211	
4	Hold On	22-20s	22-20s	2004	317.46587	blues-rock	0.681753339	0.46422774	Not available	37.15735675	-63.93335787	-8.808	
5	Ja (Hanno's Poppersmonstern '36 Grad Remixe	2raumwohnung		2007	357.85098	tech house	0.268661049	0.397569595	Berlin, Germ	52.51607	13.37698	-8.525	
6	MAS!dchen mit Plan	In wirklich	2raumwohnung	2002	272.65502	tech house	0.639248469	0.397569595	Berlin, Germ	52.51607	13.37698	-9.848	
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8	Rette Mich SpAsTter (Michael Rette Mich SpAsTter	2raumwohnung		2010	234.34404	tech house	0.400464845	0.397569595	Berlin, Germ	52.51607	13.37698	-9.239	
9	Who Are You	S Doors Down	S Doors Down	2008	168.65587	post-grunge	0.574683297	0.642962212	Escatawpa, MI	37.15735675	-63.93335787	-4.708	
10	Duck And Run	Another 700 Miles	S Doors Down	1999	278.90889	post-grunge	0.527818337	0.608849019	Escatawpa, MI	37.15735675	-63.93335787	-3.883	
11	It's Not Me	Here Without You	S Doors Down	2003	230.42567	post-grunge	0.704963317	0.608849019	Escatawpa, MI	37.15735675	-63.93335787	-5.981	
12	Here Without You	Seventeen Days	S Doors Down	2002	232.07138	post-grunge	0.704519988	0.608849019	Escatawpa, MI	37.15735675	-63.93335787	-6.348	
13	The Mission	30 Seconds To Mars	30 Seconds To Mars	2002	245.02812	rock	0.793613968	0.677087547	Los Angeles,	37.15735675	-63.93335787	-4.675	
14	Year Zero	30 Seconds To Mars	30 Seconds To Mars	2002	472.39791	rock	0.8169746	0.677087547	Los Angeles,	37.15735675	-63.93335787	-6.738	
15	Hunter	A Laut U Lte	30 Seconds To Mars	2005	254.73587	rock	0.792042603	0.677087547	Los Angeles,	37.15735675	-63.93335787	-10.807	
16	End Of The Beginning	Laut U Lte + 30 Seconds To Mars	30 Seconds To Mars	2002	277.28934	rock	0.783682009	0.677087547	Los Angeles,	37.15735675	-63.93335787	-5.64	
17	Night of the Hunter (Static Kings and Queens	30 Seconds To Mars	30 Seconds To Mars	2009	297.53424	rock	0.507269252	0.677087547	Los Angeles,	37.15735675	-63.93335787	-5.157	
18	Way Beyond	Panoramic	32 Leaves	2009	233.86485	modern rock	0.682498381	0.402391108	Arizona	34.16788	-111.9307	-6.448	
19	A Part Of	Thinking Member	40 Grit	2003	250.67957	nu metal	0.405115722	0.331351568	Not available	37.15735675	-63.93335787	-8.931	
20	Intro	Thinking Member	40 Grit	2003	75.67828	nu metal	0.427446872	0.331351568	Not available	37.15735675	-63.93335787	-22.752	
21	Party Time	A Devil's Possessions - Dem45 Grave		1989	168.26485	deathrock	0.647368817	0.399186285	Not available	37.15735675	-63.93335787	-12.778	
22	Consumer (Album Version)	Only The Good Die Young	45 Grave	1989	150.68404	deathrock	0.483489662	0.399186285	Not available	37.15735675	-63.93335787	-7.204	
23	Surf Bat (Album Version)	Sleep In Safety	45 Grave	1983	118.38649	deathrock	0.214864227	0.399186285	Not available	37.15735675	-63.93335787	-10.285	
24	Wings	Best Ones	4Him	1994	241.97179	ccm	0.484826976	0.448593803	Not available	37.15735675	-63.93335787	-9.298	
25	You Are Holy	Chapter One .. A Decade	4Him	1995	298.98567	cm	0.405115722	0.448593803	Not available	37.15735675	-63.93335787	-9.908	
26	If You Don't Pray For Me	Collector's Edition	5 Blind Boys Of Alabama	1986	173.71383	soul blues	0	0.424271114	Talladega, AL	37.15735675	-63.93335787	-15.682	
27	Pimpin' Don't Fail Me Now [Ridin' High	#Ball & MJG		2007	238.83918	dirty south	1	0	0.423580359	Memphis, TN	37.15735675	-63.93335787	-5.674
28	The Cleansing Apparatus	I, Colossus	A Different Breed of Killer	2008	187.24526	death core	0.6866532379	0.333540508	Not available	37.15735675	-63.93335787	-5.029	
29	In Hell (Album Version)	War Of Aggression	A Perfect Murder	2007	229.79873	groove metal	0.525497119	0.398727123	CA	37.27188	-119.27023	-5.118	
30	Within (Album Version)	War Of Aggression	A Perfect Murder	2007	202.32955	groove metal	0.525497119	0.398727123	CA	37.27188	-119.27023	-5.099	
31	Ability To Create A War	She Watched The Sky	A Skylit Drive	2007	68.68812	progressive r	0.684086875	0.586910688	California	37.27188	-119.27023	-5.884	
32	God Bless You (Goddamn It)	Faso Letido	A Static Lullaby	2005	237.42649	post-hardcore	0.542307528	0.557562472	Chino Hills,	33.99804	-117.75801	-4.621	
33	Rattlesnake!	Rattlesnake!	A Static Lullaby	2008	213.49832	post-hardcore	0.590252715	0.557562472	Chino Hills,	33.99804	-117.75801	-5.537	
34	Get A Hold	Beats, Rhymes & Life	A Tribe Called Quest	1998	213.27465	jazz rap	0.627785538	0.543681107	Queens, NY	37.15735675	-63.93335787	-8.089	
35	Like It Like That	The Best Of	A Tribe Called Quest	1998	168.80897	jazz rap	0.818941494	0.543681107	Queens, NY	37.15735675	-63.93335787	-9.398	
36	Scenario	The Best Of	A Tribe Called Quest	1991	251.14077	jazz rap	0.704068839	0.543681107	Queens, NY	37.15735675	-63.93335787	-10.088	
37	The Doug McComb Over	Joan of Arc Presents: Don't A Tundra	2010	271.30735	beat	0.286995528	0.299401139	Not available	37.15735675	-63.93335787	-9.698		
38	Sweet Contradiction	Angels & Outlaws	Aaron Watson	2008	257.35781	honky tonk	0.246191859	0.472495477	Not available	37.15735675	-63.93335787	-9.249	
39	That's What I Like About A C	Angels & Outlaws	Aaron Watson	2008	170.84036	honky tonk	0.345800234	0.472495477	Not available	37.15735675	-63.93335787	-9.999	
40	Whiskey on the Fire	Angels & Outlaws	Aaron Watson	2008	171.10159	honky tonk	0.392008772	0.472495477	Not available	37.15735675	-63.93335787	-8.81	
41	Exchange	Guidum	Abraham Laboriel	1995	368.16934	jazz	0.319565987	0.298572721	Mexico City,	19.4319	-99.13285	-8.489	
42	Compulsory Resurrection	Programmed to Consume	Abysmal Dawn	2008	250.3571	blackened de	0.538208452	0.408801073	Not available	37.15735675	-63.93335787	-5.788	
43	Programmed to Consume	Programmed to Consume	Abysmal Dawn	2008	261.43502	blackened de	0.540463129	0.408801073	Not available	37.15735675	-63.93335787	-6.405	
44	Fractured Intent	Anomaly	Ace Frehley	2009	379.32363	hard rock	0.608607293	0.443847739	New York, NY	37.15735675	-63.93335787	-10.519	
45	Suicide	Lightning Strike	A Judson	2007	170.1873	hip hop	0.215060319	0.458869719	Not available	37.15735675	-63.93335787	-4.149	
46	To Me Desperadas	Adalberto	Adalberto Santiago	1977	299.693751	salsa	0.311679481	0.371080719	Not available	37.15735675	-63.93335787	-5.533	



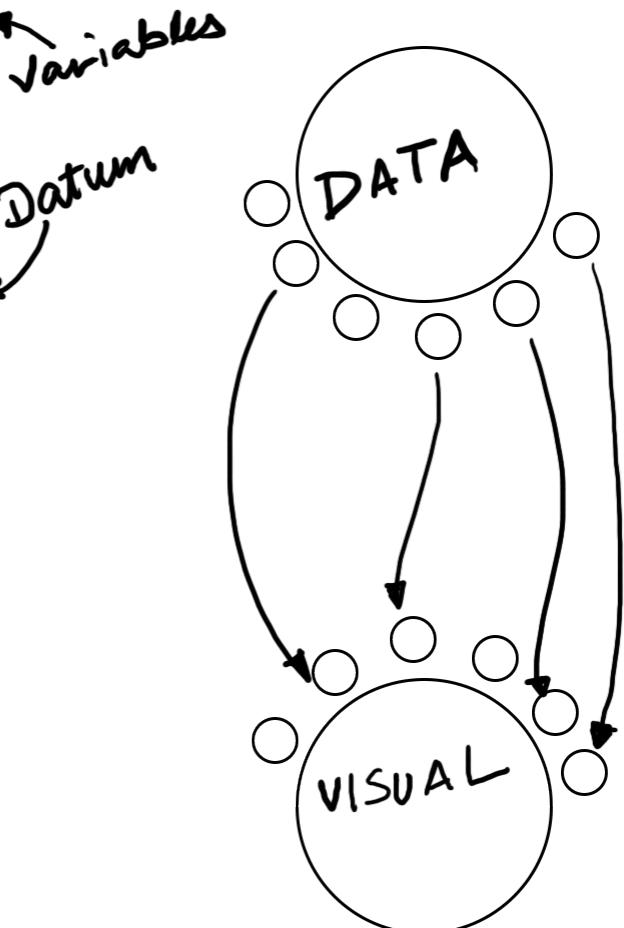
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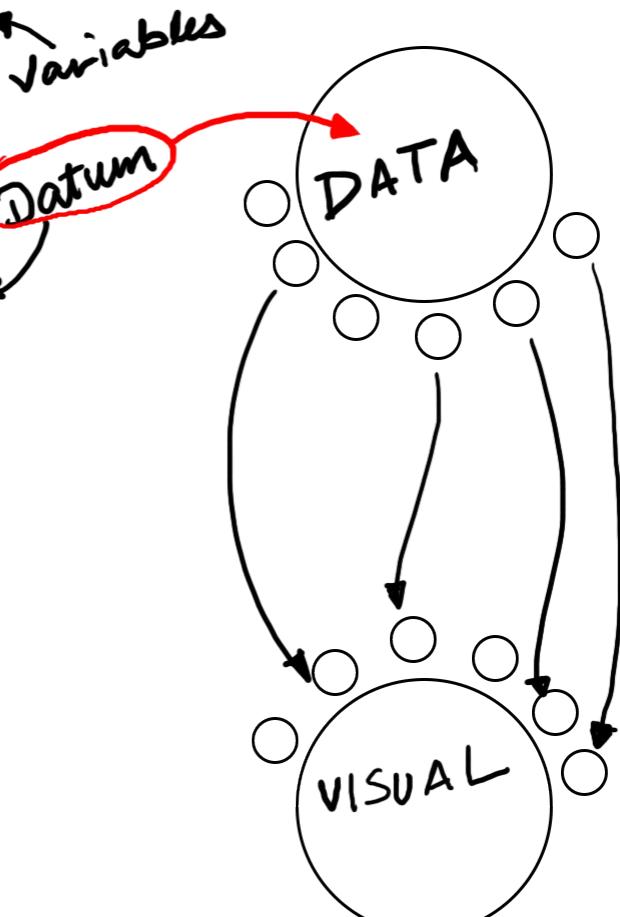
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12	Here Without You	Seventeen Days	3 Doors Down	2002	252.07138	post-grunge	0.704519888	0.608849019	Escatawpa, MI	37.15735675	-63.9335787	-6.348		
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15	Hunter	A Beautiful Lie	30 Seconds To Mars	2005	254.73857	rock	0.792042603	0.677087547	Los Angeles,	37.15735675	-63.9335787	-10.807		
16	End Of The Beginning	A Beautiful Lie + 30 Seconds	30 Seconds To Mars	2002	277.28934	rock	0.788662069	0.677087547	Los Angeles,	37.15735675	-63.9335787	-5.64		
17	Night of the Hunter (Static Kings and Queens)	30 Seconds To Mars	30 Seconds To Mars	2009	297.53424	rock	0.507209252	0.677087547	Los Angeles,	37.15735675	-63.9335787	-5.157		
18	Way Beyond	Panoramic	32 Leaves	2009	233.86485	modern rock	0.662468381	0.462391108	Arizona	34.16788	-111.9307	-6.448		
19	A Part Of Me	Nothing To Remember	40 Grit	2003	250.67937	nu metal	0.405115722	0.331351568	Not available	37.15735675	-63.9335787	-8.931		
20	Intro	Nothing To Remember	40 Grit	2003	75.67828	nu metal	0.427446572	0.331351568	Not available	37.15735675	-63.9335787	-22.752		
21	Party Time	A Devil's Possessions - Dem45 Grave		1989	163.26485	deathrock	0.647368817	0.399186285	Not available	37.15735675	-63.9335787	-12.778		
22	Consumer (Album Version)	Only The Good Die Young	45 Grave	1989	150.68404	deathrock	0.483489662	0.399186285	Not available	37.15735675	-63.9335787	-7.204		
23	Surf Bat (Album Version)	Sleep In Safety	45 Grave	1983	118.38649	deathrock	0.214864227	0.399186285	Not available	37.15735675	-63.9335787	-10.285		
24	Wings	Best Ones	4Him	1994	241.97179	ccm	0.468269876	0.448593803	Not available	37.15735675	-63.9335787	-9.295		
25	You Are Holy	Chapter One .. A Decade	4Him	1995	298.98867	ccm	0.405115722	0.448593803	Not available	37.15735675	-63.9335787	-9.908		
26	If You Don't Pray For Me	Collector's Edition	5 Blind Boys Of Alabama	1998	173.71383	soul blues	0	0.424271114	Talladega, AL	37.15735675	-63.9335787	-15.682		
27	Pimpin' Don't Fail Me Now [Ridin' High	eBall & MJG		2007	258.83918	dirty south	1	0	0.423588039	Memphis, TN	37.15735675	-63.9335787	-5.874	
28	The Cleansing Apparatus	I, Colossus	A Different Breed of Killer	2008	187.24526	death core	0.686532379	0.335540508	Not available	37.15735675	-63.9335787	-5.029		
29	In Hell (Album Version)	War Of Aggression	A Perfect Murder	2007	229.79873	groove metal	0.525497119	0.398727123	CA	37.27188	-119.27023	-5.118		
30	Within (Album Version)	War Of Aggression	A Perfect Murder	2007	202.33955	groove metal	0.525497119	0.398727123	CA	37.27188	-119.27023	-5.099		
31	Ability To Create A War	She Watched The Sky	A Skylife Drive	2007	88.88812	progressive r	0.854086875	0.538910588	California	37.27188	-119.27023	-5.884		
32	God Bless You (Goddamn it)	Faso Leticio	A Static Lullaby	2005	237.42649	post-hardcore	0.542307528	0.557562472	Chino Hills,	33.99804	-117.75801	-4.621		
33	Rattlesnake!	Rattlesnake!	A Static Lullaby	2008	213.49832	post-hardcore	0.590252715	0.557562472	Chino Hills,	33.99804	-117.75801	-5.537		
34	Get A Hold	Beats, Rhymes & Life	A Tribe Called Quest	1998	213.27465	jazz rap	0.627785538	0.543681107	Queens, NY	37.15735675	-63.9335787	-8.089		
35	Like It Like That	The Best Of	A Tribe Called Quest	1998	168.88975	jazz rap	0.818941494	0.543681107	Queens, NY	37.15735675	-63.9335787	-9.309		
36	Scenario	The Best Of	A Tribe Called Quest	1991	251.14977	jazz rap	0.704068839	0.543681107	Queens, NY	37.15735675	-63.9335787	-10.088		
37	The Doug McComb Over	Joan of Arc Presents: Don't A Tundra		2010	271.30735	beat	0.286995518	0.239041139	Not available	37.15735675	-63.9335787	-9.698		
38	Sweet Contradiction	Angels & Outlaws	Aaron Watson	2008	257.35781	honky tonk	0.246191859	0.472495477	Not available	37.15735675	-63.9335787	-9.249		
39	That's What I Like About A Cc	Angels & Outlaws	Aaron Watson	2008	170.84836	honky tonk	0.345800234	0.472495477	Not available	37.15735675	-63.9335787	-9.999		
40	Whiskey on the Fire	Angels & Outlaws	Aaron Watson	2008	171.10159	honky tonk	0.392008772	0.472495477	Not available	37.15735675	-63.9335787	-8.81		
41	Exchange	Guidum	Abraham Laboriel	1995	368.16934	jazz	0.319565987	0.298527221	Mexico City,	19.4319	-99.13285	-8.489		
42	Compulsory Resurrection	Programmed to Consume	Abysmal Dawn	2008	250.3571	blackened dei	0.538208452	0.408801073	Not available	37.15735675	-63.9335787	-5.768		
43	Programmed to Consume	Programmed to Consume	Abysmal Dawn	2008	281.43502	blackened dei	0.540463129	0.408801073	Not available	37.15735675	-63.9335787	-8.405		
44	Fractured, A Life	Anomaly	Ace Frehley	2009	379.32363	hard rock	0.606607293	0.443847739	New York, NY	37.15735675	-63.9335787	-10.519		
45	Suicide	Lightning Strike	Aerosmith	2007	170.1873	hip hop	0.215060319	0.4588697013	Not available	37.15735675	-63.9335787	-4.149		
46	Tu Me Deseperas	Adalberto	Adalberto Santiago	1977	299.69751	salsa	0.311679481	0.311679481	Not available	37.15735675	-63.9335787	-5.533		



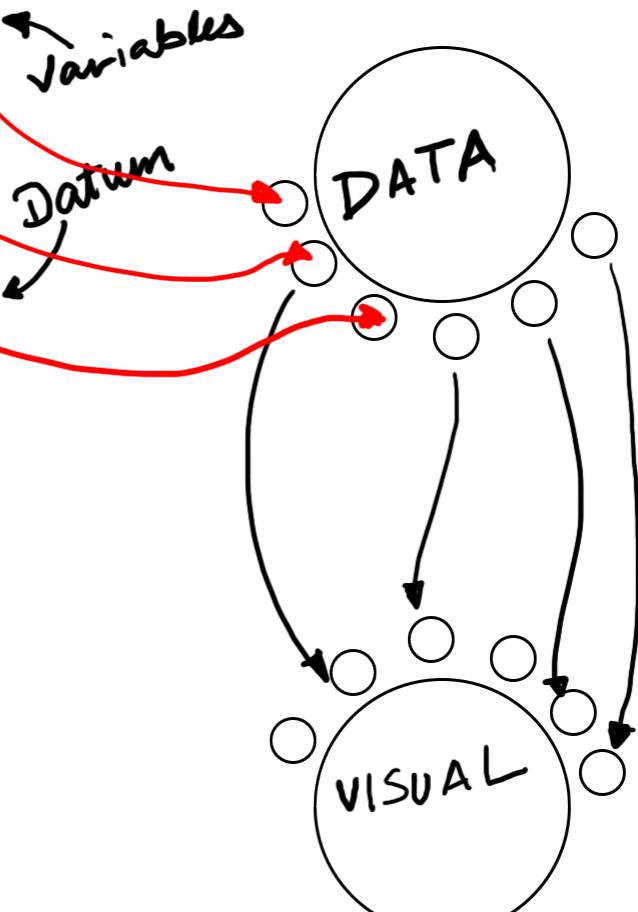
A	B	C	D	E	F	G	H	I	J	K	L	
1	song	album	artist	year	duration	genre	song_hotness	artist_hotness	location	latitude	longitude	loudness
2	Myth Takes	Myth Takes	III	2007	145.986449	dance-punk	0	0.482131081	Not available	37.15735675	-63.95335787	-7.901
3	Rompan Todo	Un Mundo De Sensaciones	2 Minutos	2008	88.58077	skate punk	0.372508039	0.37248298	Not available	37.15735675	-63.95335787	-3.211
4	Hold On	22-20s	22-20s	2004	317.46587	blues-rock	0.681755339	0.46427778	Not available	37.15735675	-63.95335787	-8.808
5	Ja (Hanno's Poppersmonstern '96 Grad Remixe)	2raumwohnung		2007	357.85098	tech house	0.268661049	0.397569595	Berlin, Germ	52.51807	13.37698	-8.525
6	NASDchen mit Plan	In wirklich	2raumwohnung	2002	272.69582	tech house	0.639248469	0.397569595	Berlin, Germ	52.51807	13.37698	-9.848
7	Lachen und weinen	Komm zusammen	2raumwohnung	2001	335.17689	tech house	0.687508139	0.397569595	Berlin, Germ	52.51807	13.37698	-9.822
8	Rette Mich SpAsTer (Michael Rette Mich SpAsTer)	2raumwohnung		2010	234.34449	tech house	0.460464845	0.397569595	Berlin, Germ	52.51807	13.37698	-9.239
9	Who Are You	3 Doors Down	3 Doors Down	2008	168.65587	post-grunge	0.574683297	0.642962212	Escatawpa, MI	37.15735675	-63.95335787	-4.708
10	Duck And Run	Another 700 Miles	3 Doors Down	1999	278.90893	post-grunge	0.527818137	0.608849019	Escatawpa, MI	37.15735675	-63.95335787	-3.883
11	It's Not Me	Here Without You	3 Doors Down	2003	230.42567	post-grunge	0.704963317	0.608849019	Escatawpa, MI	37.15735675	-63.95335787	-5.981
12	Here Without You	Seventeen Days	3 Doors Down	2002	252.07138	post-grunge	0.704519888	0.608849019	Escatawpa, MI	37.15735675	-63.95335787	-6.348
13	The Mission	30 Seconds To Mars	30 Seconds To Mars	2002	245.02812	rock	0.793613668	0.677087547	Los Angeles, CA	37.15735675	-63.95335787	-4.675
14	Year Zero	30 Seconds To Mars	30 Seconds To Mars	2002	472.39791	rock	0.8169746	0.677087547	Los Angeles, CA	37.15735675	-63.95335787	-6.736
15	Hunter	A Beautiful Lie	30 Seconds To Mars	2005	254.73887	rock	0.792042603	0.677087547	Los Angeles, CA	37.15735675	-63.95335787	-10.887
16	End Of The Beginning	A Beautiful Lie + 30 Seconds	30 Seconds To Mars	2002	277.28934	rock	0.788662069	0.677087547	Los Angeles, CA	37.15735675	-63.95335787	-5.64
17	Night of the Hunter (Static Kings and Queens)	30 Seconds To Mars	30 Seconds To Mars	2009	297.55342	rock	0.507209252	0.677087547	Los Angeles, CA	37.15735675	-63.95335787	-5.157
18	Way Beyond	Panoramic	32 Leaves	2009	233.86485	modern rock	0.662468381	0.462391108	Arizona	34.16788	-111.9307	-6.448
19	A Part Of Me	Nothing To Remember	40 Grit	2003	250.67937	nu metal	0.405115722	0.331351568	Not available	37.15735675	-63.95335787	-8.931
20	Intro	Nothing To Remember	40 Grit	2003	75.67828	nu metal	0.427446572	0.331351568	Not available	37.15735675	-63.95335787	-22.752
21	Party Time	A Devil's Possessions - Dem45 Grave		1989	163.26485	deathrock	0.647368817	0.399186285	Not available	37.15735675	-63.95335787	-12.778
22	Consumer (Album Version)	Only The Good Die Young	45 Grave	1989	150.68404	deathrock	0.483489662	0.399186285	Not available	37.15735675	-63.95335787	-7.204
23	Surf Bat (Album Version)	Sleep In Safety	45 Grave	1983	118.38649	deathrock	0.214864227	0.399186285	Not available	37.15735675	-63.95335787	-10.285
24	Wings	Best Ones	4Him	1994	241.97179	ccm	0.468269876	0.448593803	Not available	37.15735675	-63.95335787	-9.295
25	You Are Holy	Chapter One .. A Decade	4Him	1995	298.98867	cm	0.405115722	0.448593803	Not available	37.15735675	-63.95335787	-9.908
26	If You Don't Pray For Me	Collector's Edition	5 Blind Boys Of Alabama	1998	173.71383	soul blues	0	0.424271114	Talladega, AL	37.15735675	-63.95335787	-15.682
27	Pimpin' Don't Fail Me Now [Ridin' High	eBall & MJG		2007	258.89316	dirty south	0	0.423588039	Memphis, TN	37.15735675	-63.95335787	-5.874
28	The Cleansing Apparatus	I, Colossus	A Different Breed of Killer	2008	187.24526	death core	0.686532379	0.333540508	Not available	37.15735675	-63.95335787	-5.029
29	In Hell (Album Version)	War Of Aggression	A Perfect Murder	2007	229.79873	groove metal	0.525497119	0.398727123	CA	37.27188	-119.27023	-5.118
30	Within (Album Version)	War Of Aggression	A Perfect Murder	2007	202.33955	groove metal	0.525497119	0.398727123	CA	37.27188	-119.27023	-5.099
31	Ability To Create A War	She Watched The Sky	A Skylife Drive	2007	88.88812	progressive r	0.884086775	0.538910588	California	37.27188	-119.27023	-5.884
32	God Bless You (Goddamn it)	Faso Leticio	A Static Lullaby	2005	237.42649	post-hardcore	0.542307528	0.557852472	Chino Hills, CA	33.99804	-117.75801	-4.621
33	Rattlesnake!	Rattlesnake!	A Static Lullaby	2008	213.49832	post-hardcore	0.590252718	0.557852472	Chino Hills, CA	33.99804	-117.75801	-5.537
34	Get A Hold	Beats, Rhymes & Life	A Tribe Called Quest	1998	213.27465	jazz rap	0.627785538	0.543861107	Queens, NY	37.15735675	-63.95335787	-8.089
35	Like It Like That	The Best Of	A Tribe Called Quest	1998	168.88975	jazz rap	0.818941494	0.543861107	Queens, NY	37.15735675	-63.95335787	-9.309
36	Scenario	The Best Of	A Tribe Called Quest	1991	251.14977	jazz rap	0.704068839	0.543861107	Queens, NY	37.15735675	-63.95335787	-10.088
37	The Doug McComb Over	Joan of Arc Presents: Don't A Tundra	2010	271.30735	beat	0.286995518	0.239041139	Not available	37.15735675	-63.95335787	-9.698	
38	Sweet Contradiction	Angels & Outlaws	Aaron Watson	2008	257.35781	honky tonk	0.246191859	0.472495477	Not available	37.15735675	-63.95335787	-9.249
39	That's What I Like About A C	Angels & Outlaws	Aaron Watson	2008	170.84836	honky tonk	0.345800234	0.472495477	Not available	37.15735675	-63.95335787	-9.999
40	Whiskey on the Fire	Angels & Outlaws	Aaron Watson	2008	171.10159	honky tonk	0.392008772	0.472495477	Not available	37.15735675	-63.95335787	-8.81
41	Exchange	Guidum	Abraham Laboriel	1995	368.16934	jazz	0.319565987	0.298527221	Mexico City,	19.4319	-99.13285	-8.489
42	Compulsory Resurrection	Programmed to Consume	Abysmal Dawn	2008	250.3571	blackened dei	0.538208452	0.408861073	Not available	37.15735675	-63.95335787	-5.768
43	Programmed to Consume	Programmed to Consume	Abysmal Dawn	2008	281.43302	blackened dei	0.540469329	0.468861073	Not available	37.15735675	-63.95335787	-6.405
44	Fractured, A Life	Anomaly	Ace Frehley	2009	379.32363	hard rock	0.606607293	0.443847739	New York, NY	37.15735675	-63.95335787	-10.519
45	Suicide	Lightning Strike	Aerosmith	2007	170.1873	hip hop	0.215060319	0.4588697013	Not available	37.15735675	-63.95335787	-4.149
46	Tu Me Deseperas	Adalberto	Adalberto Santiago	1977	299.69751	salsa	0.311679481	0.311679481	Not available	37.15735675	-63.95335787	-5.533



A	B	C	D	E	F	G	H	I	J	K	L		
1	song	album	artist	year	duration	genre	song_hotness	artist_hotness	location	latitude	longitude	loudness	
2	Myth Takes	Myth Takes	III	2007	145.986449	dance-punk	0	0.482131081	Not available	37.15735675	-63.95335787	-7.901	
3	Rompan Todo	Un Mundo De Sensaciones	2 Minutos	2006	88.58077	skate punk	0.372508039	0.37248298	Not available	37.15735675	-63.95335787	-3.211	
4	Hold On	22-20s	22-20s	2004	317.46587	blues-rock	0.6811755339	0.46427778	Not available	37.15735675	-63.95335787	-6.808	
5	Ja (Hanno's Poppersmonstern '96 Grad Remixe)	2raumwohnung		2007	357.85098	tech house	0.268661049	0.397569595	Berlin, Germ	52.15007	13.37698	-8.525	
6	NASDchen mit Plan	In wirklich	2raumwohnung	2002	272.65582	tech house	0.639248469	0.397569595	Berlin, Germ	52.15007	13.37698	-9.846	
7	Lachen und weinen	Komm zusammen	2raumwohnung	2001	335.17669	tech house	0.687508139	0.397569595	Berlin, Germ	52.15007	13.37698	-9.322	
8	Rette Mich SpAsTer (Michael Rette Mich SpAsTer)	2raumwohnung		2010	234.34444	tech house	0.460464845	0.397569595	Berlin, Germ	52.15007	13.37698	-9.239	
9	Who Are You	3 Doors Down	3 Doors Down	2008	168.65587	post-grunge	0.574683297	0.642962212	Escatawpa, MI	37.15735675	-63.95335787	-4.708	
10	Duck And Run	Another 700 Miles	3 Doors Down	1999	278.90893	post-grunge	0.527818137	0.608849019	Escatawpa, MI	37.15735675	-63.95335787	-3.863	
11	It's Not Me	Here Without You	3 Doors Down	2003	230.42567	post-grunge	0.704963317	0.608849019	Escatawpa, MI	37.15735675	-63.95335787	-5.981	
12	Here Without You	Seventeen Days	3 Doors Down	2002	252.07138	post-grunge	0.704519888	0.608849019	Escatawpa, MI	37.15735675	-63.95335787	-6.348	
13	The Mission	30 Seconds To Mars	30 Seconds To Mars	2002	245.02812	rock	0.793613668	0.677087547	Los Angeles, CA	37.15735675	-63.95335787	-4.675	
14	Year Zero	30 Seconds To Mars	30 Seconds To Mars	2002	472.39791	rock	0.8169746	0.677087547	Los Angeles, CA	37.15735675	-63.95335787	-6.736	
15	Hunter	A Beautiful Lie	30 Seconds To Mars	2005	254.73587	rock	0.792042603	0.677087547	Los Angeles, CA	37.15735675	-63.95335787	-10.807	
16	End Of The Beginning	A Beautiful Lie + 30 Seconds	30 Seconds To Mars	2002	277.28934	rock	0.788662069	0.677087547	Los Angeles, CA	37.15735675	-63.95335787	-5.64	
17	Night of the Hunter (Static Kings and Queens)	30 Seconds To Mars	30 Seconds To Mars	2009	297.53424	rock	0.507209252	0.677087547	Los Angeles, CA	37.15735675	-63.95335787	-5.157	
18	Way Beyond	Panoramic	32 Leaves	2009	233.86485	modern rock	0.662468381	0.462391108	Arizona	34.16788	-111.9307	-6.448	
19	A Part Of Me	Nothing To Remember	40 Grit	2003	250.67937	nu metal	0.405115722	0.331351568	Not available	37.15735675	-63.95335787	-8.931	
20	Intro	Nothing To Remember	40 Grit	2003	75.67828	nu metal	0.427446572	0.331351568	Not available	37.15735675	-63.95335787	-22.752	
21	Party Time	A Devil's Possessions - Dem45 Grave		1989	163.26485	deathrock	0.647368817	0.399186285	Not available	37.15735675	-63.95335787	-12.778	
22	Consumer (Album Version)	Only The Good Die Young	45 Grave	1989	150.68404	deathrock	0.483489662	0.399186285	Not available	37.15735675	-63.95335787	-7.204	
23	Surf Bat (Album Version)	Sleep In Safety	45 Grave	1983	118.38649	deathrock	0.214864227	0.399186285	Not available	37.15735675	-63.95335787	-10.285	
24	Wings	Best Ones	4Him	1994	241.97179	ccm	0.468269876	0.448593803	Not available	37.15735675	-63.95335787	-9.295	
25	You Are Holy	Chapter One .. A Decade	4Him	1995	298.98867	ccm	0.405115722	0.448593803	Not available	37.15735675	-63.95335787	-9.908	
26	If You Don't Pray For Me	Collector's Edition	5 Blind Boys Of Alabama	1998	173.71383	soul blues	0	0.424271114	Talladega, AL	37.15735675	-63.95335787	-15.682	
27	Pimpin' Don't Fail Me Now [Ridin' High	eBall & MJG		2007	258.83916	dirty south	1	0	0.423588039	Memphis, TN	37.15735675	-63.95335787	-5.874
28	The Cleansing Apparatus	I, Colossus	A Different Breed of Killer	2008	187.24526	death core	0.686532379	0.335540508	Not available	37.15735675	-63.95335787	-5.029	
29	In Hell (Album Version)	War Of Aggression	A Perfect Murder	2007	229.79873	groove metal	0.525497119	0.398727123	CA	37.27188	-119.27023	-5.118	
30	Within (Album Version)	War Of Aggression	A Perfect Murder	2007	202.33955	groove metal	0.525497119	0.398727123	CA	37.27188	-119.27023	-5.099	
31	Ability To Create A War	She Watched The Sky	A Skylife Drive	2007	88.88812	progressive r	0.884086775	0.538910588	California	37.27188	-119.27023	-5.884	
32	God Bless You (Goddamn it)	Faso Leticio	A Static Lullaby	2005	237.42649	post-hardcore	0.542307528	0.557852472	Chino Hills,	33.99804	-117.75801	-4.621	
33	Rattlesnake!	Rattlesnake!	A Static Lullaby	2008	213.49832	post-hardcore	0.590252715	0.557852472	Chino Hills,	33.99804	-117.75801	-5.537	
34	Get A Hold	Beats, Rhymes & Life	A Tribe Called Quest	1998	213.27465	jazz rap	0.627785538	0.543681107	Queens, NY	37.15735675	-63.95335787	-8.089	
35	Like It Like That	The Best Of	A Tribe Called Quest	1998	168.88975	jazz rap	0.818941494	0.543681107	Queens, NY	37.15735675	-63.95335787	-9.309	
36	Scenario	The Best Of	A Tribe Called Quest	1991	251.14977	jazz rap	0.704068839	0.543681107	Queens, NY	37.15735675	-63.95335787	-10.088	
37	The Doug McComb Over	Joan of Arc Presents: Don't A Tundra	2010	271.30735	beat	0.286995518	0.239041139	Not available	37.15735675	-63.95335787	-9.698		
38	Sweet Contradiction	Angels & Outlaws	Aaron Watson	2008	257.35781	honky tonk	0.246191859	0.472495477	Not available	37.15735675	-63.95335787	-9.249	
39	That's What I Like About a C	Angels & Outlaws	Aaron Watson	2008	170.84836	honky tonk	0.345800234	0.472495477	Not available	37.15735675	-63.95335787	-9.999	
40	Whiskey on the Fire	Angels & Outlaws	Aaron Watson	2008	171.10159	honky tonk	0.392008772	0.472495477	Not available	37.15735675	-63.95335787	-8.81	
41	Exchange	Guidum	Abraham Laboriel	1995	368.16934	jazz	0.319565987	0.298572721	Mexico City,	19.4319	-99.13285	-8.489	
42	Compulsory Resurrection	Programmed to Consume	Abysmal Dawn	2008	250.3571	blackened dei	0.538208452	0.408801073	Not available	37.15735675	-63.95335787	-5.768	
43	Programmed to Consume	Programmed to Consume	Abysmal Dawn	2008	281.43502	blackened dei	0.540469329	0.408801073	Not available	37.15735675	-63.95335787	-6.405	
44	Fractured, L.A.	Anomaly	Ace Frehley	2009	379.32363	hard rock	0.606607293	0.443847739	New York, NY	37.15735675	-63.95335787	-10.519	
45	Suicide	Lightning Strike	Aerosmith	2007	170.1873	hip hop	0.215060319	0.4588697013	Not available	37.15735675	-63.95335787	-4.149	
46	Tu Me Deseperas	Adalberto	Adalberto Santiago	1977	299.69751	salsa	0.311679481	0.311679481	Not available	37.15735675	-63.95335787	-5.533	



A	B	C	D	E	F	G	H	I	J	K	L		
1	song	album	artist	year	duration	genre	song hotness	artist hotness	location	latitude	longitude	loudness	
2	Myth Takes	Myth Takes	III	2007	145.17449	dance pop	0	0.482131081	Not available	37.15735675	-63.95335787	-7.945	
3	Rompan Todo	Un Mundo De Sensaciones	2 Minutos	2006	88.58077	skate punk	0.372508039	0.37248298	Not available	37.15735675	-63.95335787	-3.211	
4	Hold On	22-20s	22-20s	2004	317.46587	blues-rock	0.461755339	0.46421775	Not available	37.15735675	-63.95335787	-6.808	
5	Ja (Hanno's Poppersmonstern '96 Grad Remixe)	2raumwohnung		2007	357.85098	tech house	0.268919249	0.397569595	Berlin, Germ	52.1600	19.37698	-8.525	
6	NASDchen mit Plan	In wirklich	2raumwohnung	2002	272.17582	tech house	0.63924847	0.397569595	Berlin, Germ	52.51807	13.37698	-9.846	
7	Lachen und weinen	Komm zusammen	2raumwohnung	2001	335.17669	tech house	0.687508139	0.397569595	Berlin, Germ	52.51807	13.37698	-9.822	
8	Rette Mich SpAsTer (Michael Rette Mich SpAsTer)	2raumwohnung		2010	234.04494	tech house	0.400464845	0.397569595	Berlin, Germ	52.51807	13.37698	-9.239	
9	Who Are You	3 Doors Down	3 Doors Down	2008	168.65587	post-grunge	0.574683297	0.64298222	Escatawpa, MI	37.15735675	-63.95335787	-5.708	
10	Duck And Run	Another 700 Miles	3 Doors Down	1999	278.90893	post-grunge	0.527818137	0.608849019	Escatawpa, MI	37.15735675	-63.95335787	-3.883	
11	It's Not Me	Here Without You	3 Doors Down	2003	230.42567	post-grunge	0.704963317	0.608849019	Escatawpa, MI	37.15735675	-63.95335787	-5.981	
12	Here Without You	Seventeen Days	3 Doors Down	2002	252.07138	post-grunge	0.704519888	0.608849019	Escatawpa, MI	37.15735675	-63.95335787	-6.348	
13	The Mission	30 Seconds To Mars	30 Seconds To Mars	2002	245.02812	rock	0.793613668	0.677087547	Los Angeles, CA	37.15735675	-63.95335787	-4.675	
14	Year Zero	30 Seconds To Mars	30 Seconds To Mars	2002	472.39791	rock	0.8169746	0.677087547	Los Angeles, CA	37.15735675	-63.95335787	-6.726	
15	Hunter	A Beautiful Lie	30 Seconds To Mars	2005	254.73587	rock	0.792042603	0.677087547	Los Angeles, CA	37.15735675	-63.95335787	-10.807	
16	End Of The Beginning	A Beautiful Lie + 30 Seconds	30 Seconds To Mars	2002	277.28934	rock	0.788662069	0.677087547	Los Angeles, CA	37.15735675	-63.95335787	-5.04	
17	Night of the Hunter (Static Kings and Queens)	30 Seconds To Mars	30 Seconds To Mars	2009	297.53424	rock	0.507209252	0.677087547	Los Angeles, CA	37.15735675	-63.95335787	-5.157	
18	Way Beyond	Panoramic	32 Leaves	2009	233.86485	modern rock	0.662483181	0.402391108	Arizona	34.16788	-111.9307	-6.446	
19	A Part Of Me	Nothing To Remember	40 Grit	2003	250.67937	nu metal	0.405115722	0.331351568	Not available	37.15735675	-63.95335787	-8.931	
20	Intro	Nothing To Remember	40 Grit	2003	75.07828	nu metal	0.427446572	0.331351568	Not available	37.15735675	-63.95335787	-22.752	
21	Party Time	A Devil's Possessions - Dem45 Grave		1989	163.26485	deathrock	0.647368817	0.399186285	Not available	37.15735675	-63.95335787	-12.778	
22	Consumer (Album Version)	Only The Good Die Young	45 Grave	1989	150.68404	deathrock	0.483489662	0.399186285	Not available	37.15735675	-63.95335787	-7.204	
23	Surf Bat (Album Version)	Sleep In Safety	45 Grave	1983	118.38849	deathrock	0.214864227	0.399186285	Not available	37.15735675	-63.95335787	-10.285	
24	Wings	Best Ones	4Him	1994	241.97179	ccm	0.48628976	0.448593803	Not available	37.15735675	-63.95335787	-9.295	
25	You Are Holy	Chapter One .. A Decade	4Him	1995	298.98867	cm	0.405115722	0.448593803	Not available	37.15735675	-63.95335787	-9.908	
26	If You Don't Pray For Me	Collector's Edition	5 Blind Boys Of Alabama	1998	173.71383	soul blues	0	0.424271114	Talladega, AL	37.15735675	-63.95335787	-15.682	
27	Pimpin' Don't Fail Me Now [Ridin' High	eBall & MJG		2007	258.83918	dirty south	1	0	0.423588039	Memphis, TN	37.15735675	-63.95335787	-5.874
28	The Cleansing Apparatus	I, Colossus	A Different Breed of Killer	2008	187.24526	death core	0.686532379	0.333540508	Not available	37.15735675	-63.95335787	-5.029	
29	In Hell (Album Version)	War Of Aggression	A Perfect Murder	2007	229.79873	groove metal	0.525497119	0.398727123	CA	37.27188	-119.27023	-5.118	
30	Within (Album Version)	War Of Aggression	A Perfect Murder	2007	202.33955	groove metal	0.525497119	0.398727123	CA	37.27188	-119.27023	-5.099	
31	Ability To Create A War	She Watched The Sky	A Skylife Drive	2007	88.88812	progressive r	0.854086775	0.538910588	California	37.27188	-119.27023	-5.884	
32	God Bless You (Goddamn it)	Faso Letido	A Static Lullaby	2005	237.42649	post-hardcore	0.557562472	0.557562472	Chino Hills,	33.99804	-117.75801	-4.621	
33	Rattlesnake!	Rattlesnake!	A Static Lullaby	2008	213.49832	post-hardcore	0.59025271	0.557562472	Chino Hills,	33.99804	-117.75801	-5.537	
34	Get A Hold	Beats, Rhymes & Life	A Tribe Called Quest	1998	213.27465	jazz rap	0.827785538	0.843861107	Queens, NY	37.15735675	-63.95335787	-8.089	
35	Like It Like That	The Best Of	A Tribe Called Quest	1998	168.88975	jazz rap	0.818941494	0.543861107	Queens, NY	37.15735675	-63.95335787	-9.309	
36	Scenario	The Best Of	A Tribe Called Quest	1991	251.14977	jazz rap	0.704068839	0.543861107	Queens, NY	37.15735675	-63.95335787	-10.088	
37	The Doug McComb Over	Joan of Arc Presents: Don't A Tundra		2010	271.30735	beat	0.286995518	0.239041139	Not available	37.15735675	-63.95335787	-9.698	
38	Sweet Contradiction	Angels & Outlaws	Aaron Watson	2008	257.35781	honky tonk	0.246191859	0.472495477	Not available	37.15735675	-63.95335787	-9.249	
39	That's What I Like About A C	Angels & Outlaws	Aaron Watson	2008	170.84938	honky tonk	0.345800234	0.472495477	Not available	37.15735675	-63.95335787	-9.999	
40	Whiskey on the Fire	Angels & Outlaws	Aaron Watson	2008	171.10159	honky tonk	0.392008772	0.472495477	Not available	37.15735675	-63.95335787	-8.81	
41	Exchange	Guidum	Abraham Laboriel	1995	368.16934	jazz	0.319565987	0.298572721	Mexico City,	19.4319	-99.13285	-8.489	
42	Compulsory Resurrection	Programmed to Consume	Abysmal Dawn	2008	250.3571	blackened dei	0.538208452	0.408801073	Not available	37.15735675	-63.95335787	-5.788	
43	Programmed to Consume	Programmed to Consume	Abysmal Dawn	2008	281.43502	blackened dei	0.540463129	0.408801073	Not available	37.15735675	-63.95335787	-6.405	
44	Fractured, Broken	Anomaly	Ace Frehley	2009	379.32363	hard rock	0.608607293	0.443847739	New York, NY	37.15735675	-63.95335787	-10.519	
45	Suicide	Lightning Strike	Aerosmith	2007	170.1873	hip hop	0.215080319	0.4588697013	Not available	37.15735675	-63.95335787	-4.149	
46	Tu Me Deseperas	Adalberto	Adalberto Santiago	1977	299.69751	salsa	0.311679481	0.311679481	Not available	37.15735675	-63.95335787	-5.533	



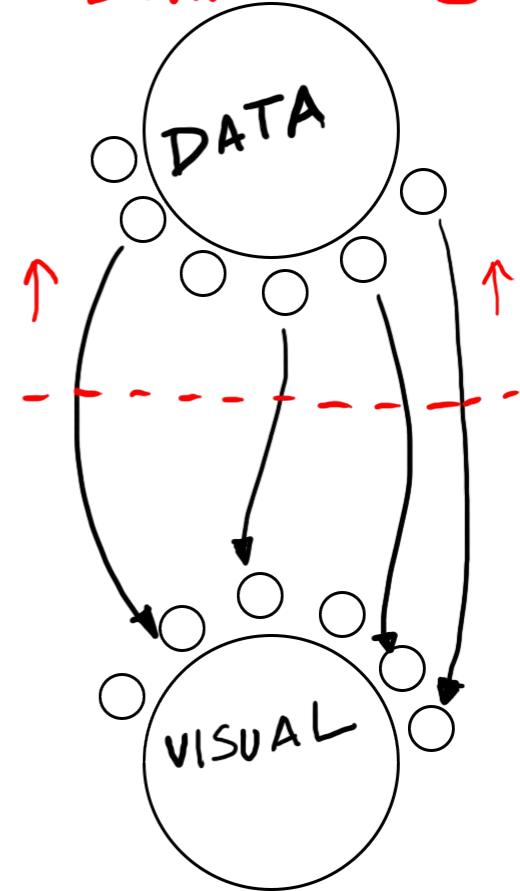
A	B	C	D	E	F	G	H	I	J	K	L		
1	song	album	artist	year	duration	genre	song hotness	artist hotness	location	latitude	longitude	loudness	
2	Myth Takes	Myth Takes	III	2007	145.1748	dark electro	0	0.482131081	Not available	37.15735675	-63.93335787	-0.194	
3	Rompan Todo	Un Mundo De Sensaciones	2 Minutos	2006	88.58077	electro punk	0.372508039	0.37248288	Not available	37.15735675	-63.93335787	-0.211	
4	Hold On	22-20s	22-20s	2004	317.46887	emo rock	0.461755339	0.46427778	Not available	37.15735675	-63.93335787	-0.808	
5	Ja (Hanno's Poppersmonstern '96 Grad Remixe)	2raumwohnung		2007	357.85098	tech house	0.26893249	0.397569595	Berlin, Germ	52.51600	13.37698	-0.525	
6	NASDchen mit Plan	In wirklich	2raumwohnung	2002	272.17582	tech house	0.63924847	0.397569595	Berlin, Germ	52.51607	13.37698	-0.846	
7	Lachen und weinen	Komm zusammen	2raumwohnung	2001	335.17689	tech house	0.687508139	0.397569595	Berlin, Germ	52.51607	13.37698	-0.322	
8	Rette Mich SpAsTter (Michael Rette Mich SpAsTter)	2raumwohnung		2010	234.34404	tech house	0.400484845	0.397569595	Berlin, Germ	52.51607	13.37698	-0.239	
9	Who Are You	3 Doors Down	3 Doors Down	2008	88.65887	post grunge	0.57468297	0.64298222	Escatawpa, MI	37.15735675	-63.93335787	-0.008	
10	Duck And Run	Another 700 Miles	3 Doors Down	1999	278.90893	post grunge	0.527818137	0.608849019	Escatawpa, MI	37.15735675	-63.93335787	-0.83	
11	It's Not Me	Here Without You	3 Doors Down	2003	230.42567	post grunge	0.704963317	0.608849019	Escatawpa, MI	37.15735675	-63.93335787	-0.281	
12	Here Without You	Seventeen Days	3 Doors Down	2002	252.07138	post grunge	0.704519888	0.608849019	Escatawpa, MI	37.15735675	-63.93335787	-0.348	
13	The Mission	30 Seconds To Mars	30 Seconds To Mars	2002	245.02822	rock	0.793613668	0.677087547	Los Angeles, CA	37.15735675	-63.93335787	-4.675	
14	Year Zero	30 Seconds To Mars	30 Seconds To Mars	2002	472.39719	rock	0.8169746	0.677087547	Los Angeles, CA	37.15735675	-63.93335787	-0.700	
15	Hunter	A Beautiful Lie	30 Seconds To Mars	2005	254.73587	rock	0.792042603	0.677087547	Los Angeles, CA	37.15735675	-63.93335787	-10.807	
16	End Of The Beginning	A Beautiful Lie + 30 Seconds	30 Seconds To Mars	2002	277.28934	rock	0.788620609	0.677087547	Los Angeles, CA	37.15735675	-63.93335787	-0.04	
17	Night of the Hunter (Static Kings and Queens)	30 Seconds To Mars	30 Seconds To Mars	2009	297.53424	rock	0.507209252	0.677087547	Los Angeles, CA	37.15735675	-63.93335787	-5.157	
18	Way Beyond	Panoramic	32 Leaves	2009	233.86485	modern rock	0.662483181	0.402391108	Arizona	34.16788	-111.9307	-6.446	
19	A Part Of Me	Nothing To Remember	40 Grit	2003	250.67937	nu metal	0.405115722	0.331351568	Not available	37.15735675	-63.93335787	-8.931	
20	Intro	Nothing To Remember	40 Grit	2003	75.87828	nu metal	0.427446972	0.331351568	Not available	37.15735675	-63.93335787	-22.752	
21	Party Time	A Devil's Possessions - Dem45 Grave		1989	163.26485	deathrock	0.647368817	0.399186285	Not available	37.15735675	-63.93335787	-12.778	
22	Consumer (Album Version)	Only The Good Die Young	45 Grave	1989	150.68404	deathrock	0.483489662	0.399186285	Not available	37.15735675	-63.93335787	-7.204	
23	Surf Bat (Album Version)	Sleep In Safety	45 Grave	1983	118.38849	deathrock	0.214864227	0.399186285	Not available	37.15735675	-63.93335787	-10.285	
24	Wings	Best Ones	4Him	1994	241.97179	ccm	0.486289876	0.448593803	Not available	37.15735675	-63.93335787	-9.295	
25	You Are Holy	Chapter One .. A Decade	4Him	1995	298.98867	ccm	0.405115722	0.448593803	Not available	37.15735675	-63.93335787	-9.908	
26	If You Don't Pray For Me	Collector's Edition	5 Blind Boys Of Alabama	1998	173.71383	soul blues	0	0.424271114	Talladega, AL	37.15735675	-63.93335787	-15.882	
27	Pimpin' Don't Fail Me Now [Ridin' High	eBall & MJG		2007	258.83918	dirty south	1	0	0.423588039	Memphis, TN	37.15735675	-63.93335787	-5.874
28	The Cleansing Apparatus	I, Colossus	A Different Breed of Killer	2008	187.24528	death core	0.686532379	0.333540508	Not available	37.15735675	-63.93335787	-5.029	
29	In Hell (Album Version)	War Of Aggression	A Perfect Murder	2007	229.79873	groove metal	0.525497119	0.398727123	CA	37.27188	-119.27023	-5.118	
30	Within (Album Version)	War Of Aggression	A Perfect Murder	2007	202.33955	groove metal	0.525497119	0.398727123	CA	37.27188	-119.27023	-5.099	
31	Ability To Create A War	She Watched The Sky	A Skylife Drive	2007	88.88812	progressive rock	0.854086875	0.538910588	California	37.27188	-119.27023	-5.884	
32	God Bless You (Goddamn it)	Faso Leticio	A Static Lullaby	2005	237.42649	post-hardcore	0.557852782	0.557852472	Chino Hills, CA	33.99804	-117.75801	-4.621	
33	Rattlesnake!	Rattlesnake!	A Static Lullaby	2008	213.49832	post-hardcore	0.59025271	0.557852472	Chino Hills, CA	33.99804	-117.75801	-5.537	
34	Get A Hold	Beats, Rhymes & Life	A Tribe Called Quest	1998	213.27465	jazz rap	0.827785538	0.843861107	Queens, NY	37.15735675	-63.93335787	-8.089	
35	Like It Like That	The Best Of	A Tribe Called Quest	1998	168.88975	jazz rap	0.818941494	0.543861107	Queens, NY	37.15735675	-63.93335787	-9.309	
36	Scenario	The Best Of	A Tribe Called Quest	1991	251.14977	jazz rap	0.704068839	0.543861107	Queens, NY	37.15735675	-63.93335787	-10.088	
37	The Doug McComb Over	Joan of Arc Presents: Don't A Tundra	2010	271.30735	beat	0.286995518	0.239041139	Not available	37.15735675	-63.93335787	-9.698		
38	Sweet Contradiction	Angels & Outlaws	Aaron Watson	2008	257.35781	honky tonk	0.246191859	0.472495477	Not available	37.15735675	-63.93335787	-9.249	
39	That's What I Like About A C	Angels & Outlaws	Aaron Watson	2008	170.84836	honky tonk	0.345800234	0.472495477	Not available	37.15735675	-63.93335787	-9.999	
40	Whiskey on the Fire	Angels & Outlaws	Aaron Watson	2008	171.10159	honky tonk	0.392008772	0.472495477	Not available	37.15735675	-63.93335787	-8.81	
41	Exchange	Guidum	Abraham Laboriel	1995	368.16934	jazz	0.819565987	0.298527221	Mexico City,	19.4319	-99.13285	-8.489	
42	Compulsory Resurrection	Programmed to Consume	Abysmal Dawn	2008	250.3571	blackened dei	0.538208452	0.408801073	Not available	37.15735675	-63.93335787	-5.788	
43	Programmed to Consume	Programmed to Consume	Abysmal Dawn	2008	281.43302	blackened dei	0.540469329	0.408801073	Not available	37.15735675	-63.93335787	-6.405	
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45	Suicide	Lightning Strike	Aerosmith	2007	170.1873	hip hop	0.215080319	0.458897019	Not available	37.15735675	-63.93335787	-4.149	
46	Tu Me Deseperas	Adalberto	Adalberto Santiago	1977	299.69751	salsa	0.311679481	0.311679481	Not available	37.15735675	-63.93335787	-5.533	

variables  
Datum  
DATA

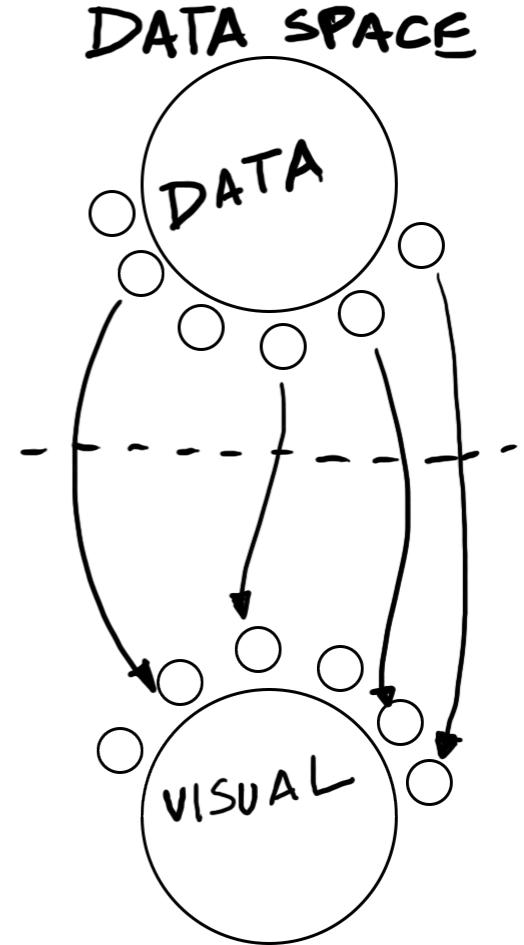
VISUAL

what is  
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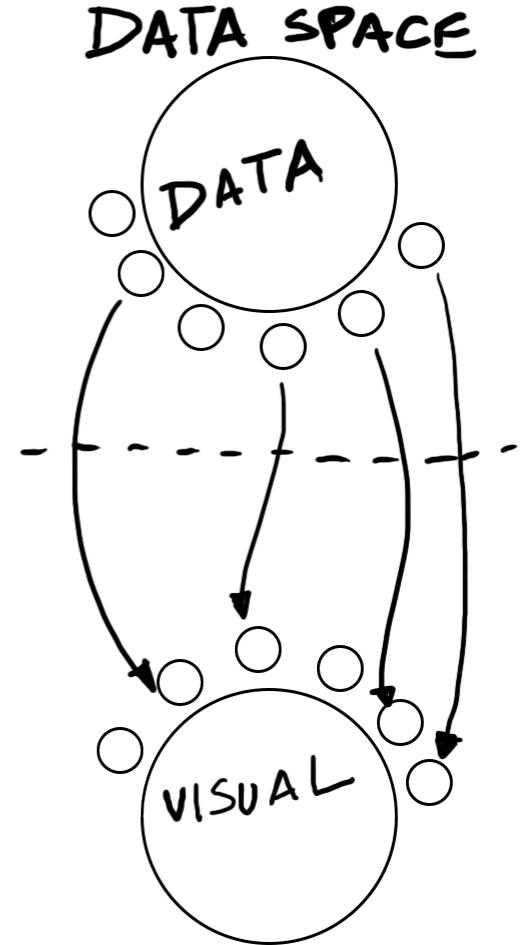
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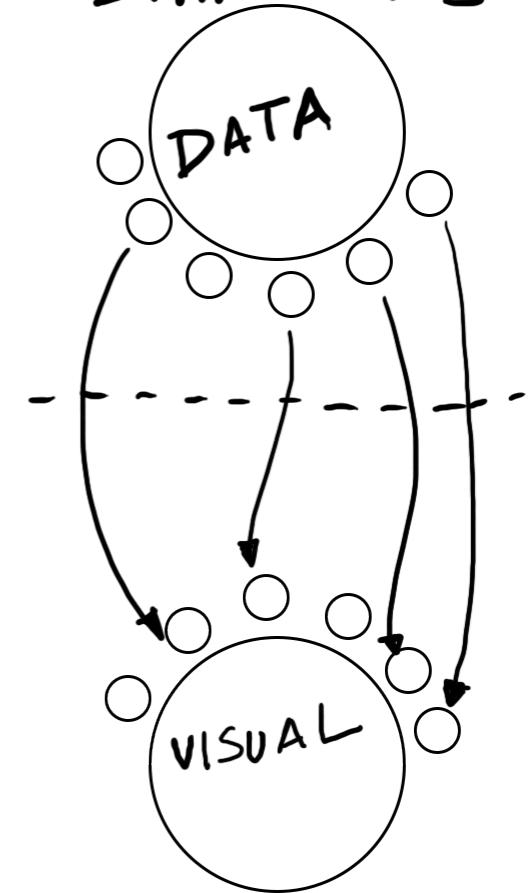


# what is data visualization?

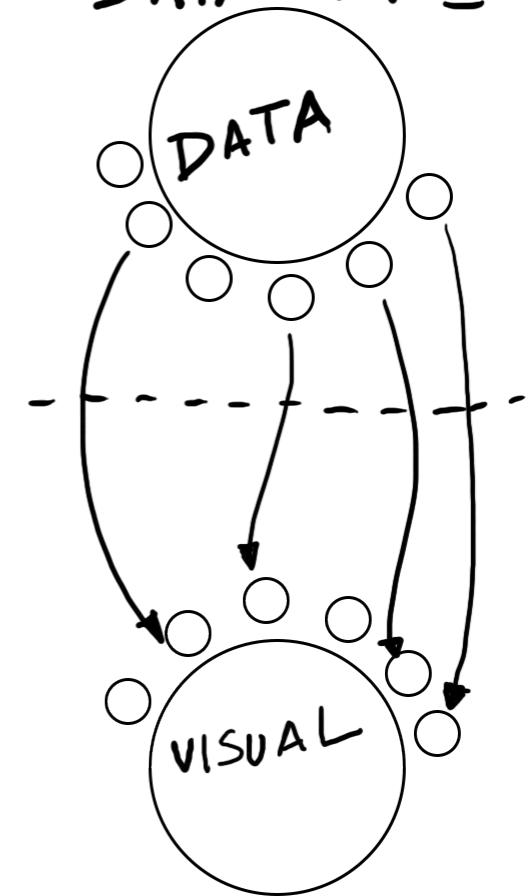
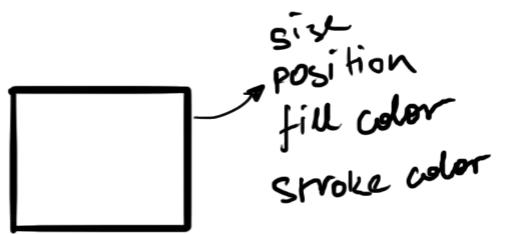


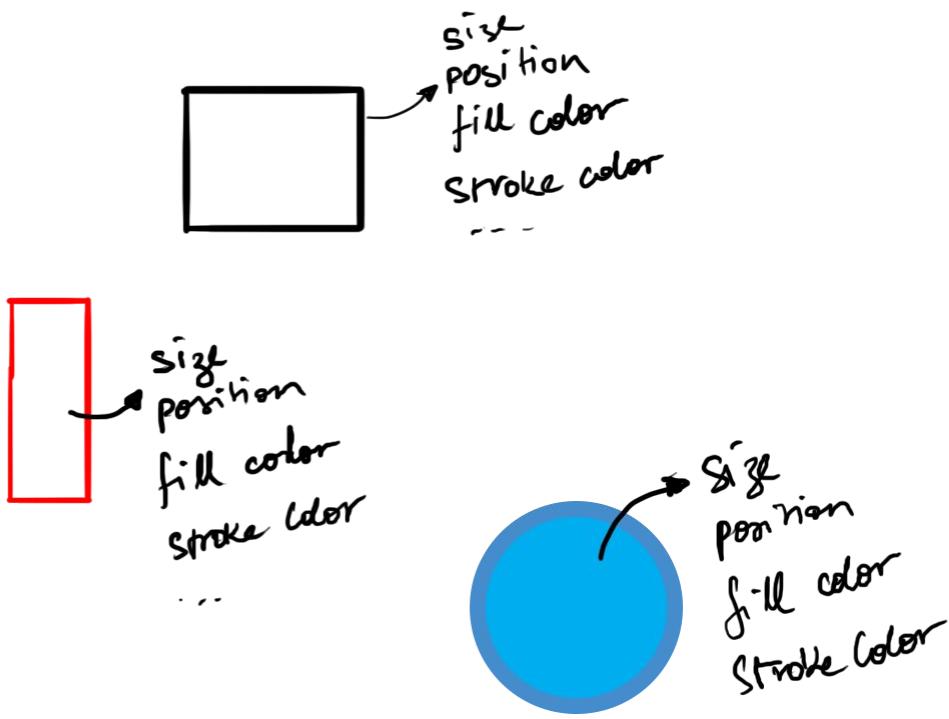


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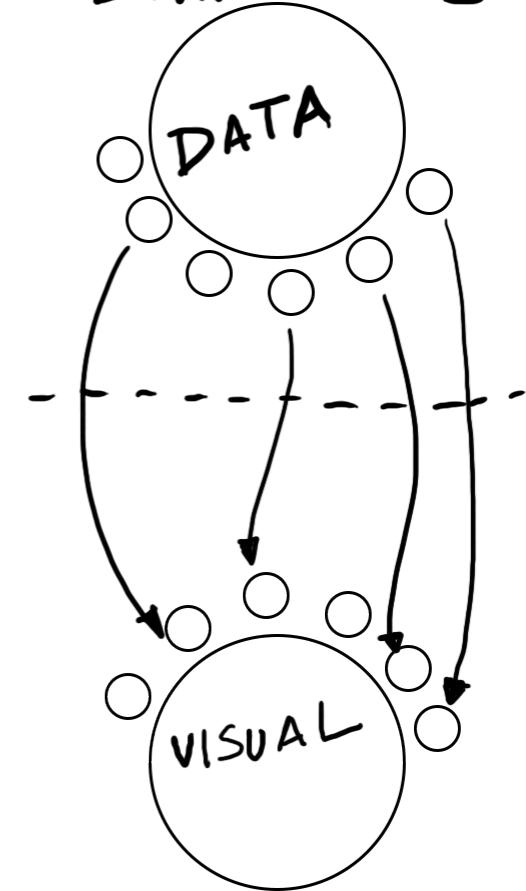


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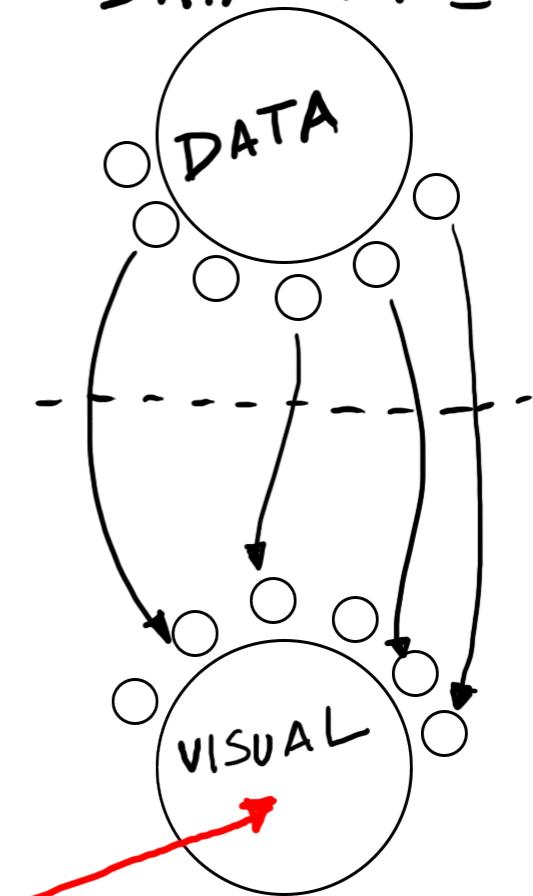
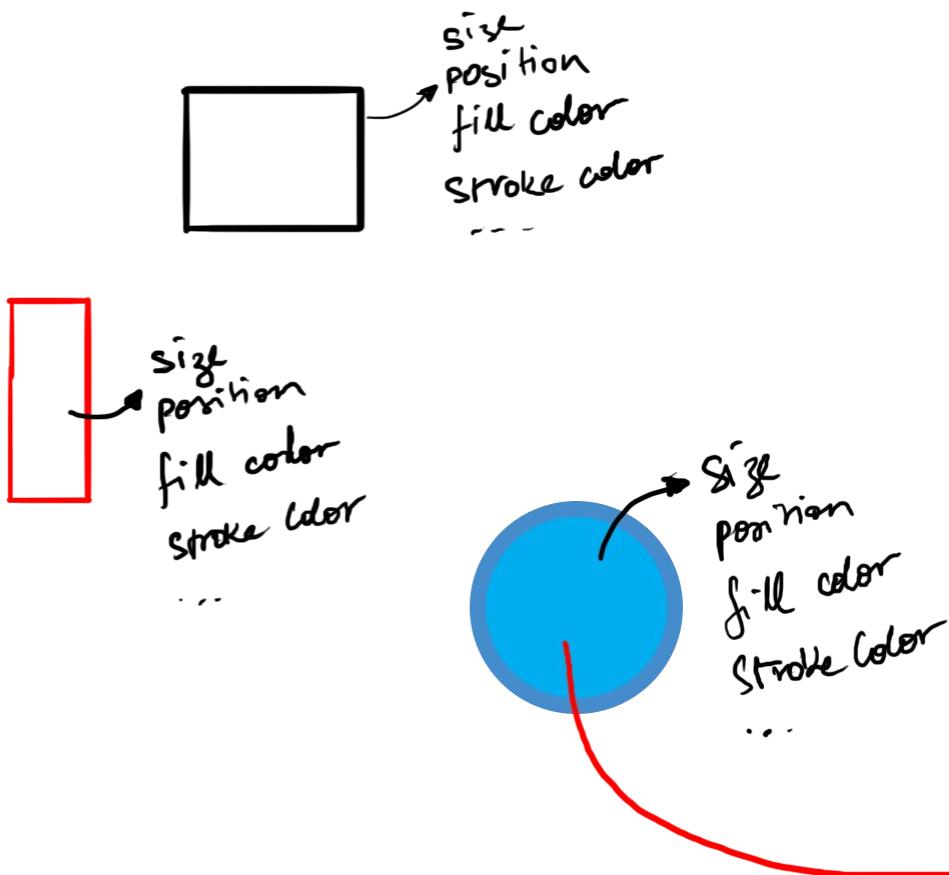




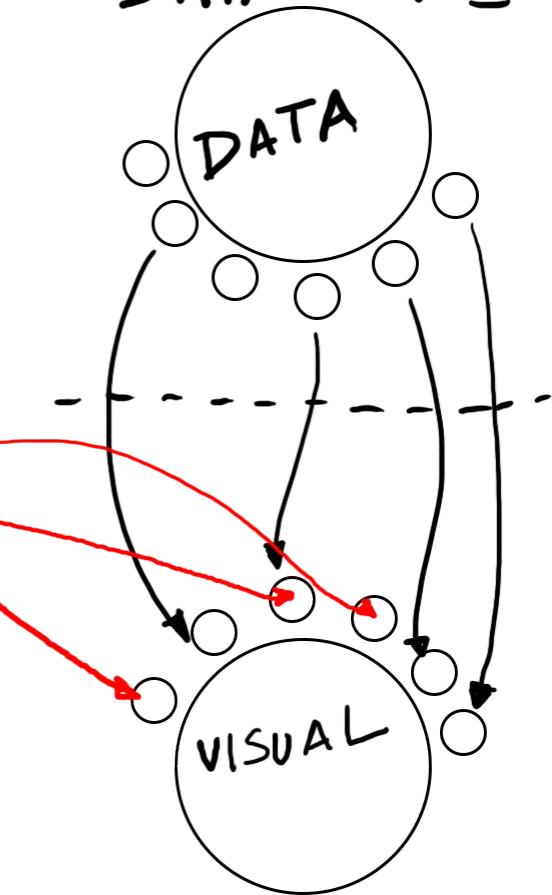
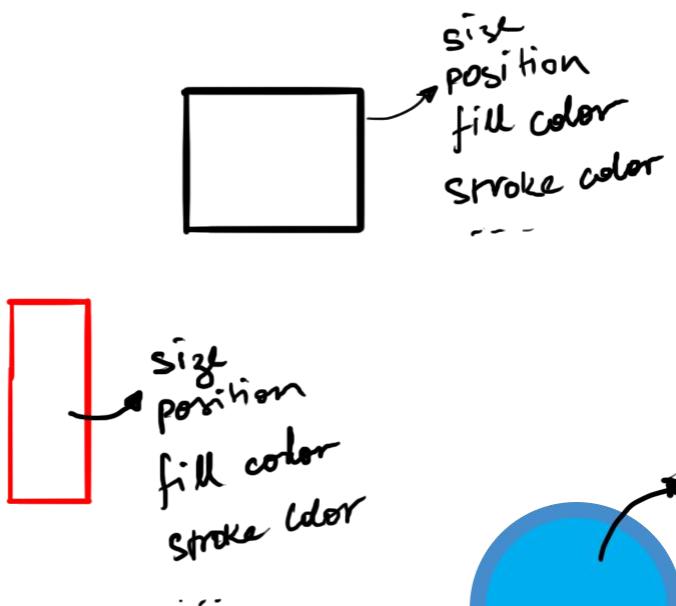
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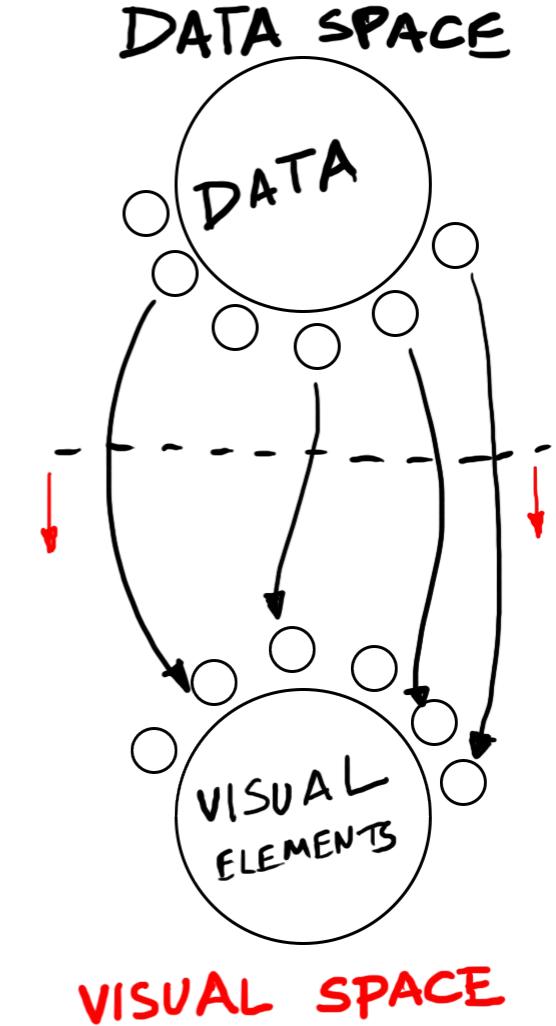
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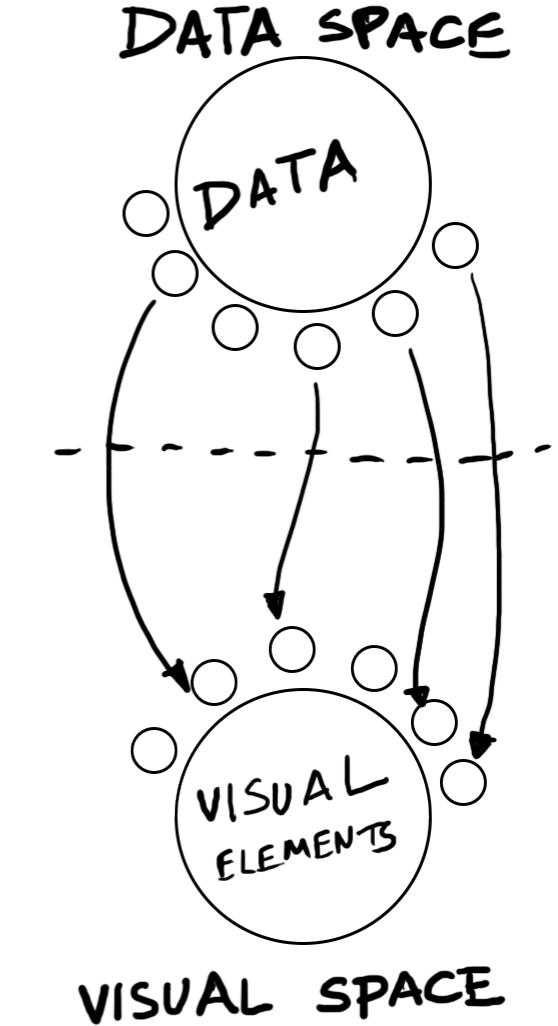
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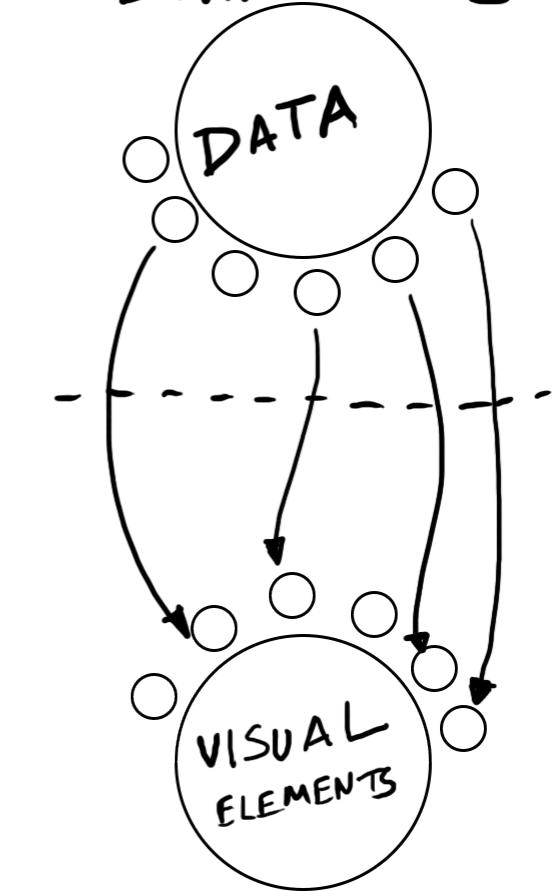


data space → visual space



d3?

DATA SPACE



VISUAL SPACE

d3?

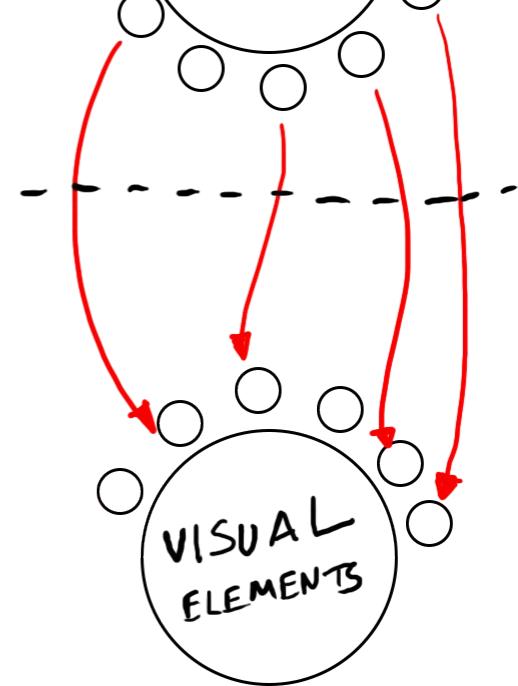
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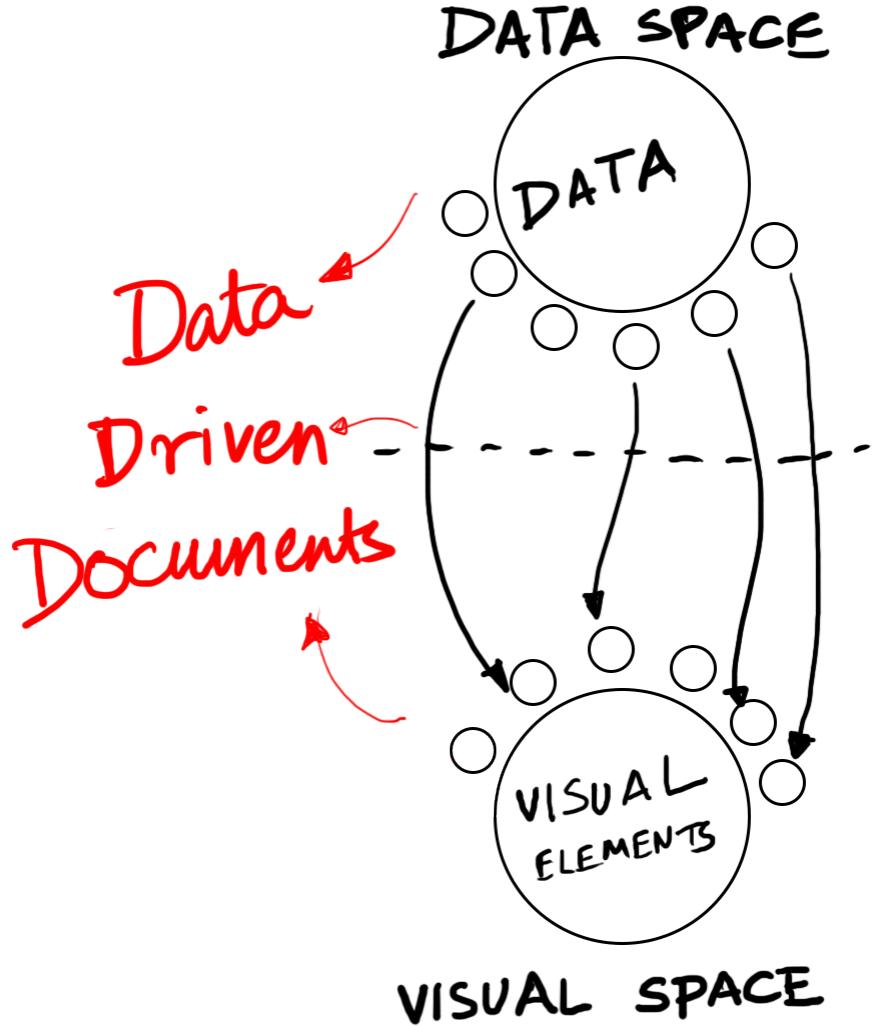


VISUAL ELEMENTS

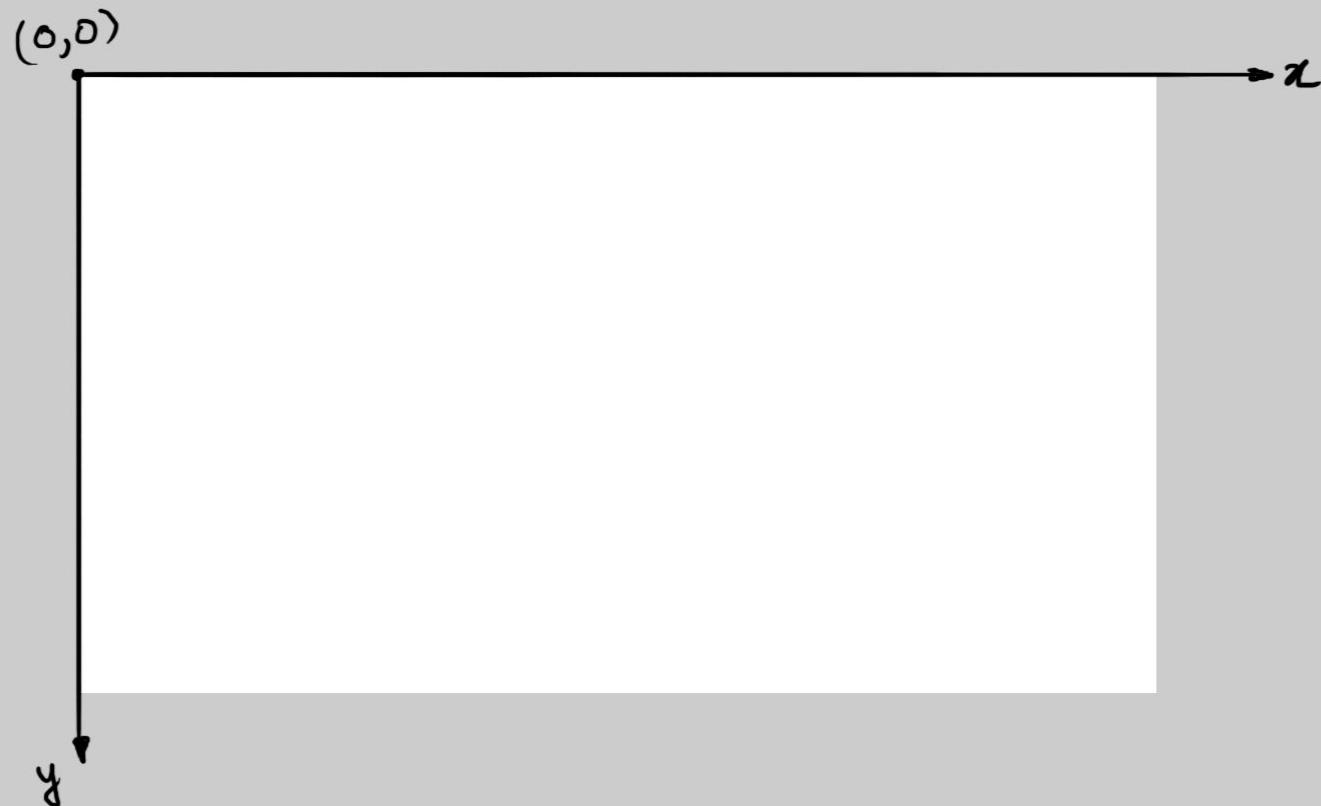
VISUAL SPACE



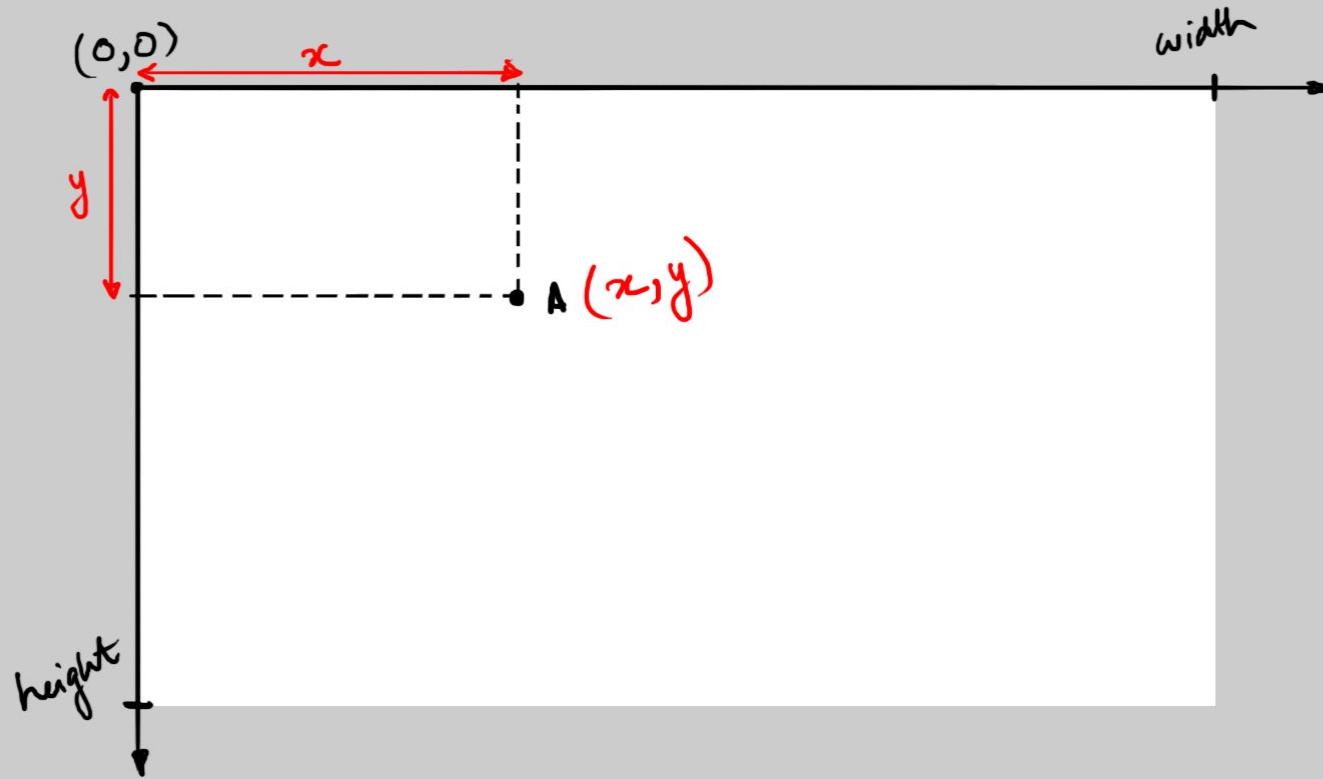
d3?

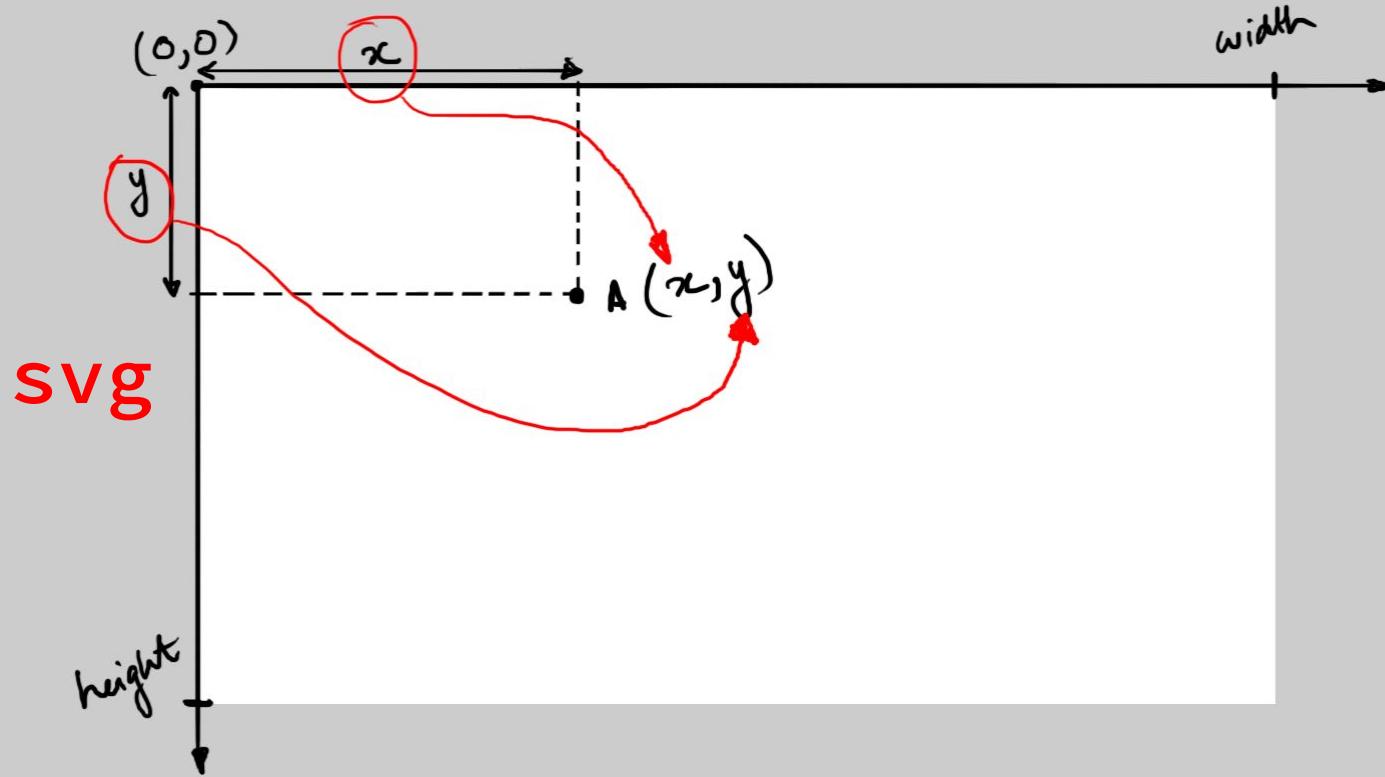


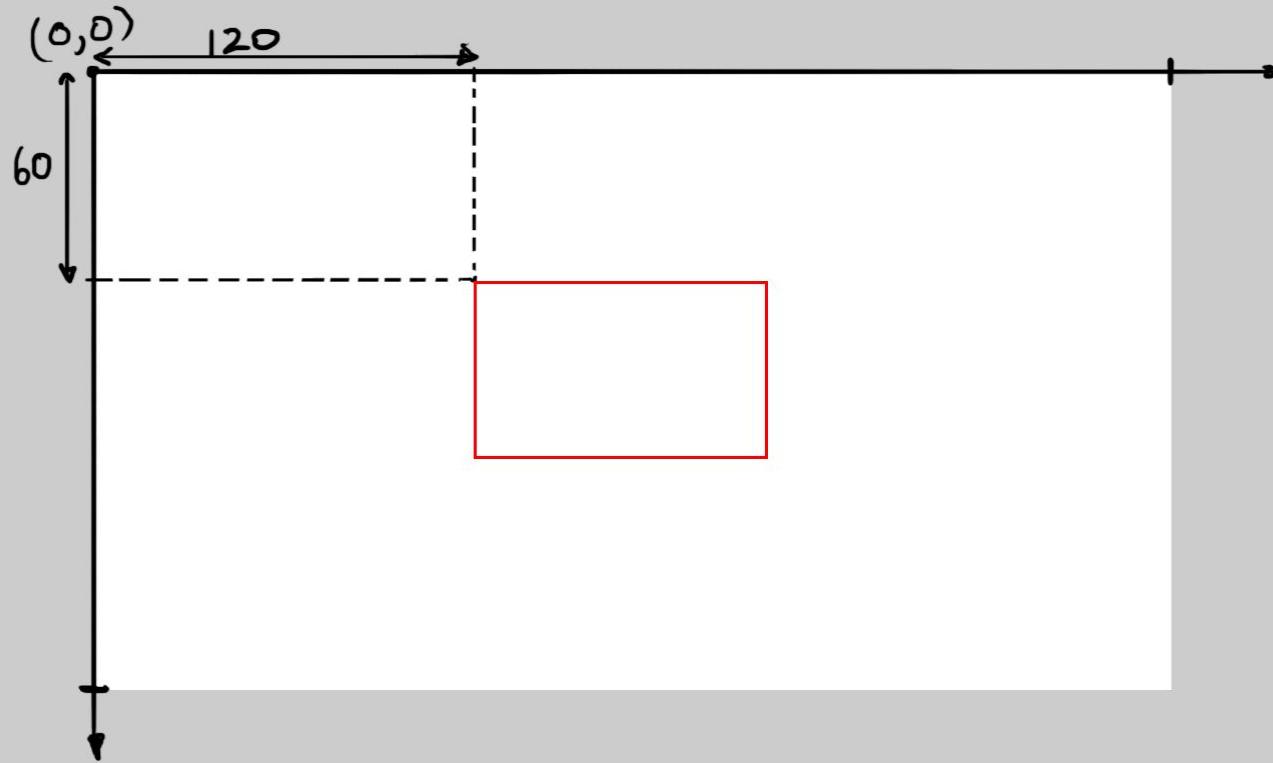
*svg*



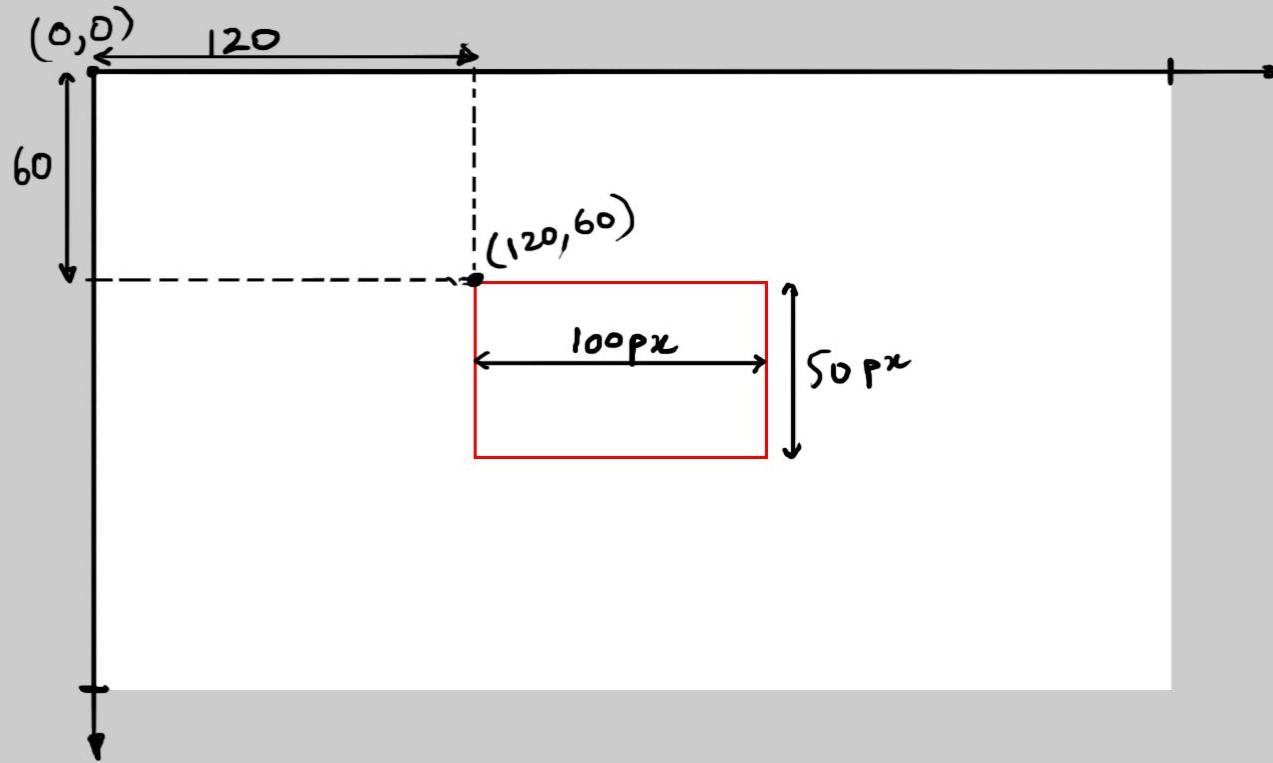
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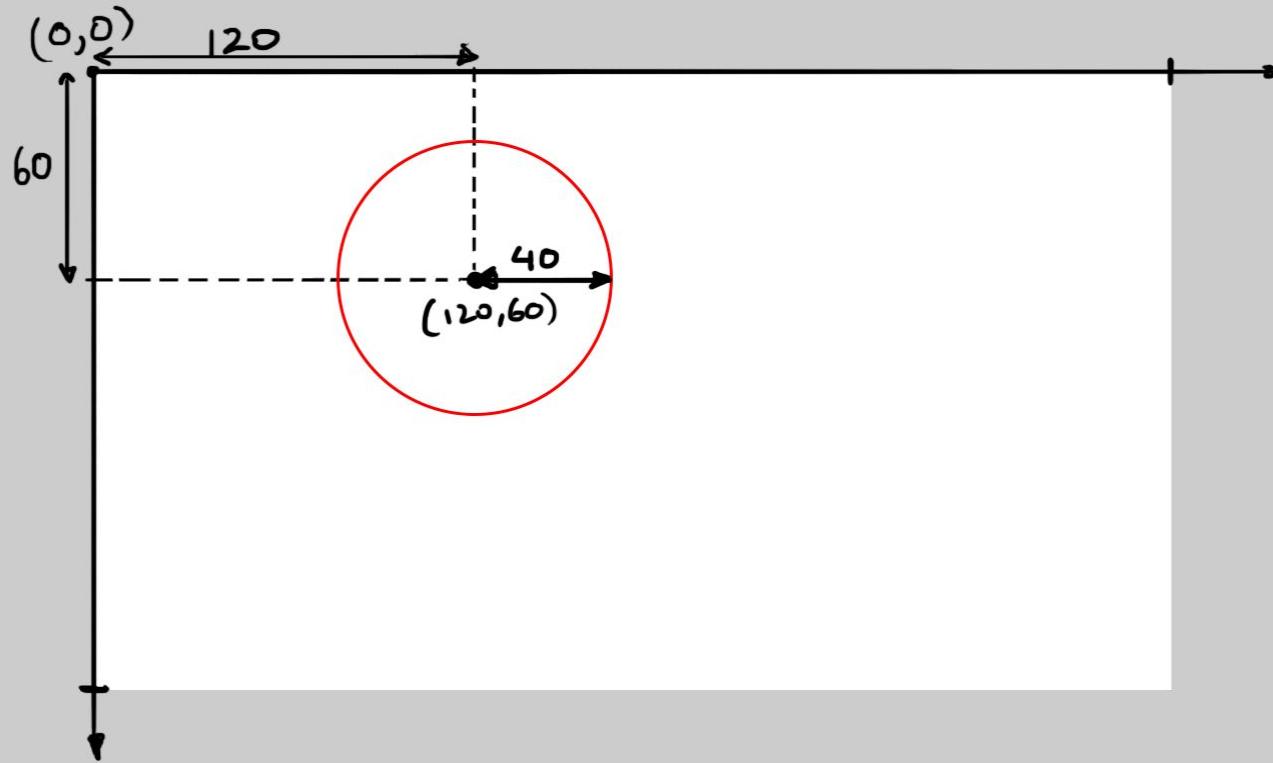




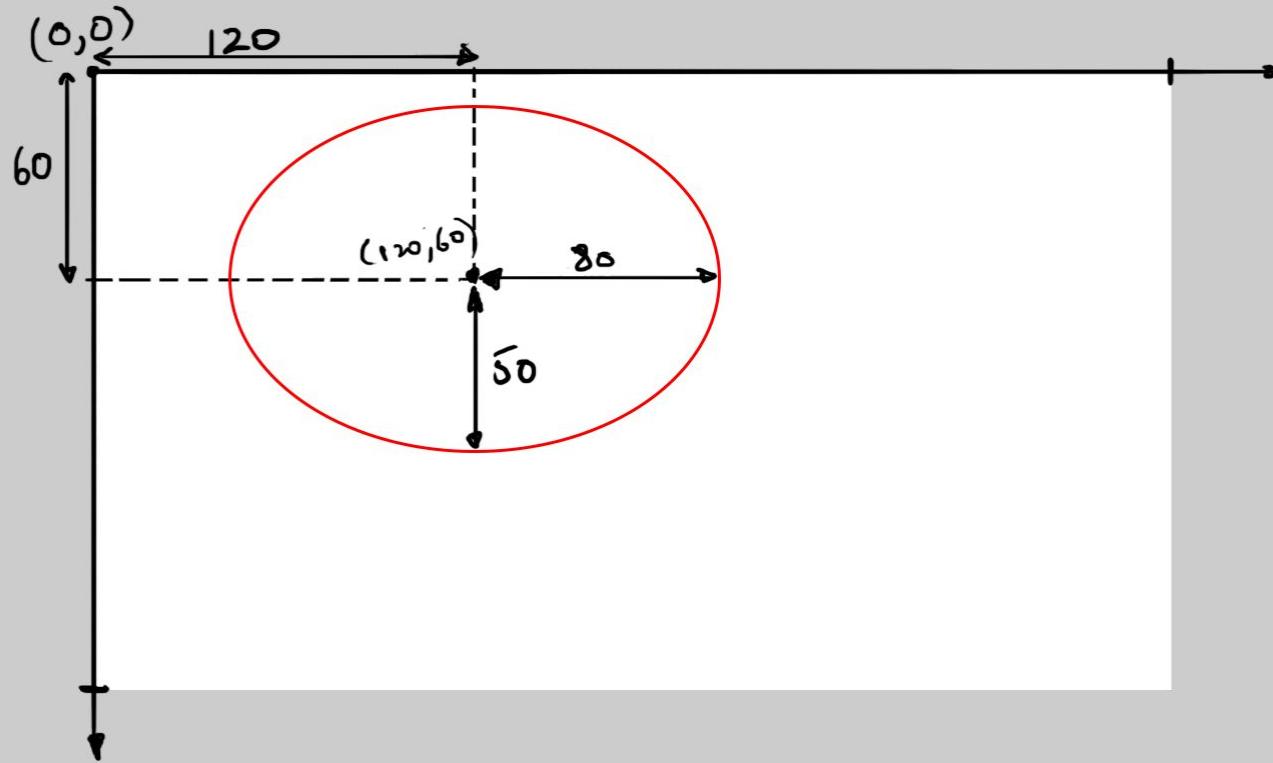
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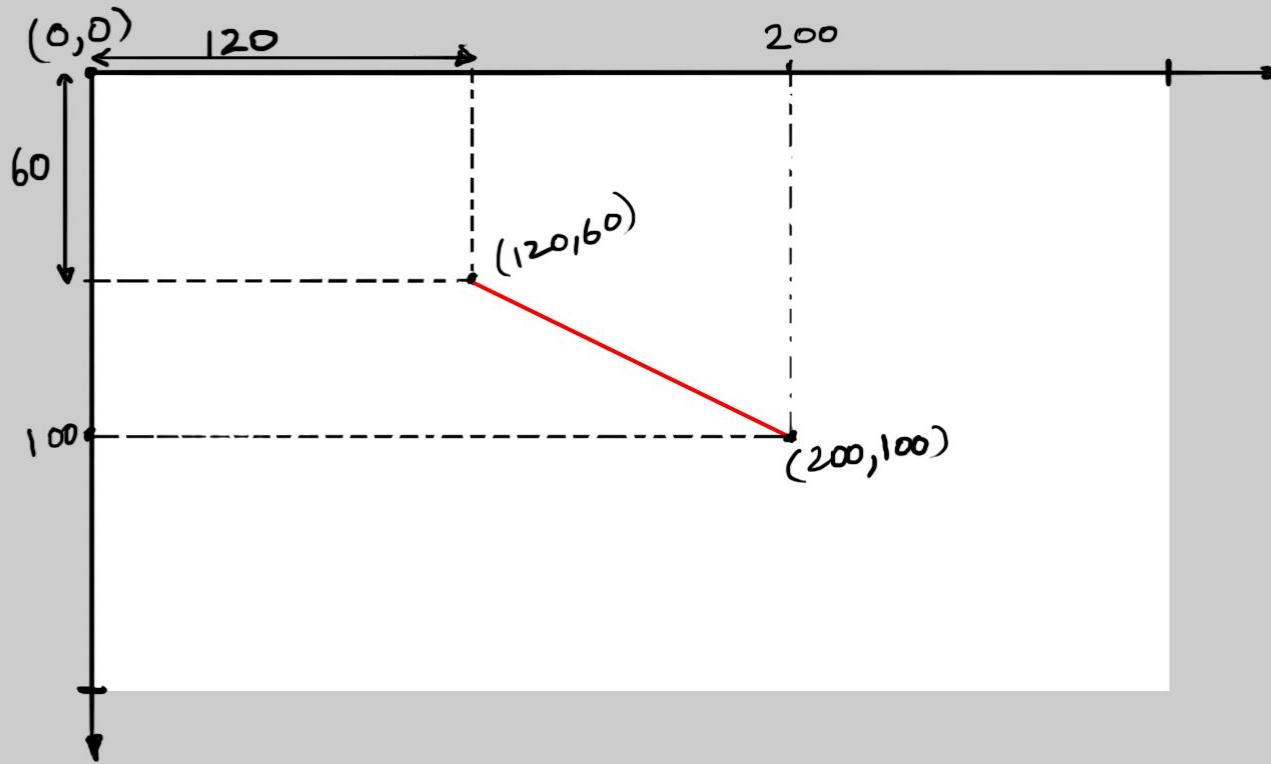
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<circle cx="120" cy="60" r="40" />
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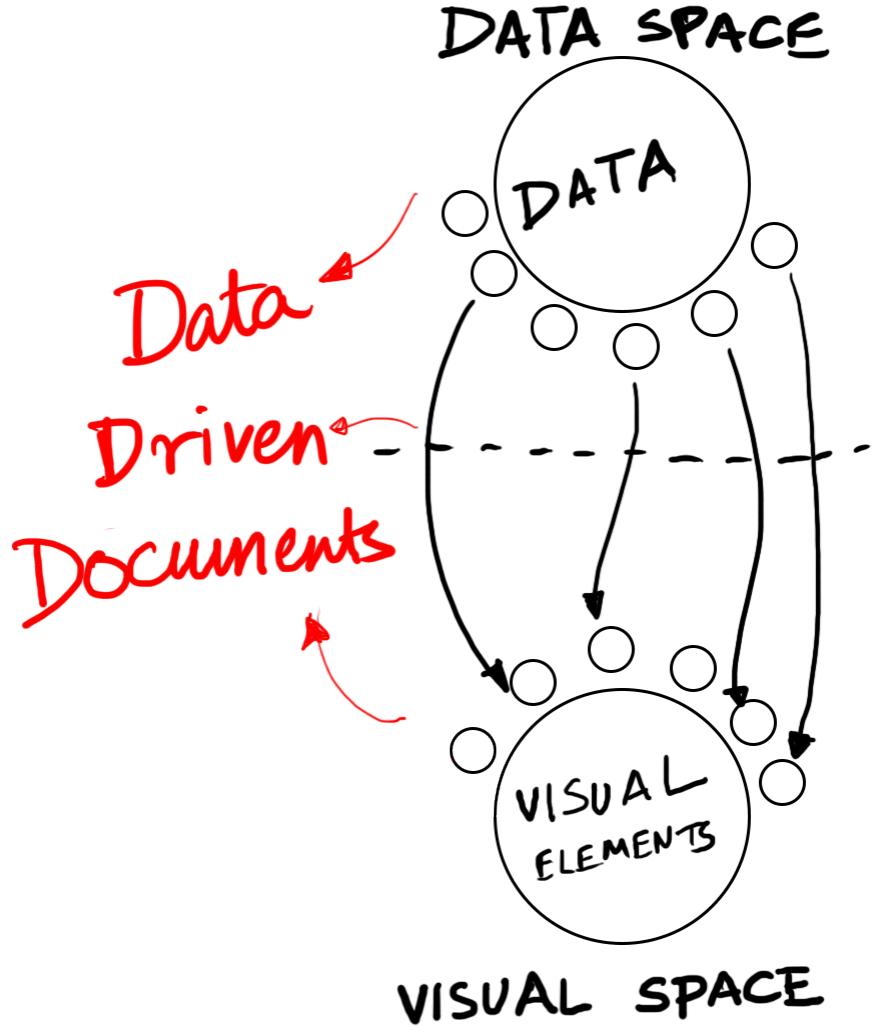


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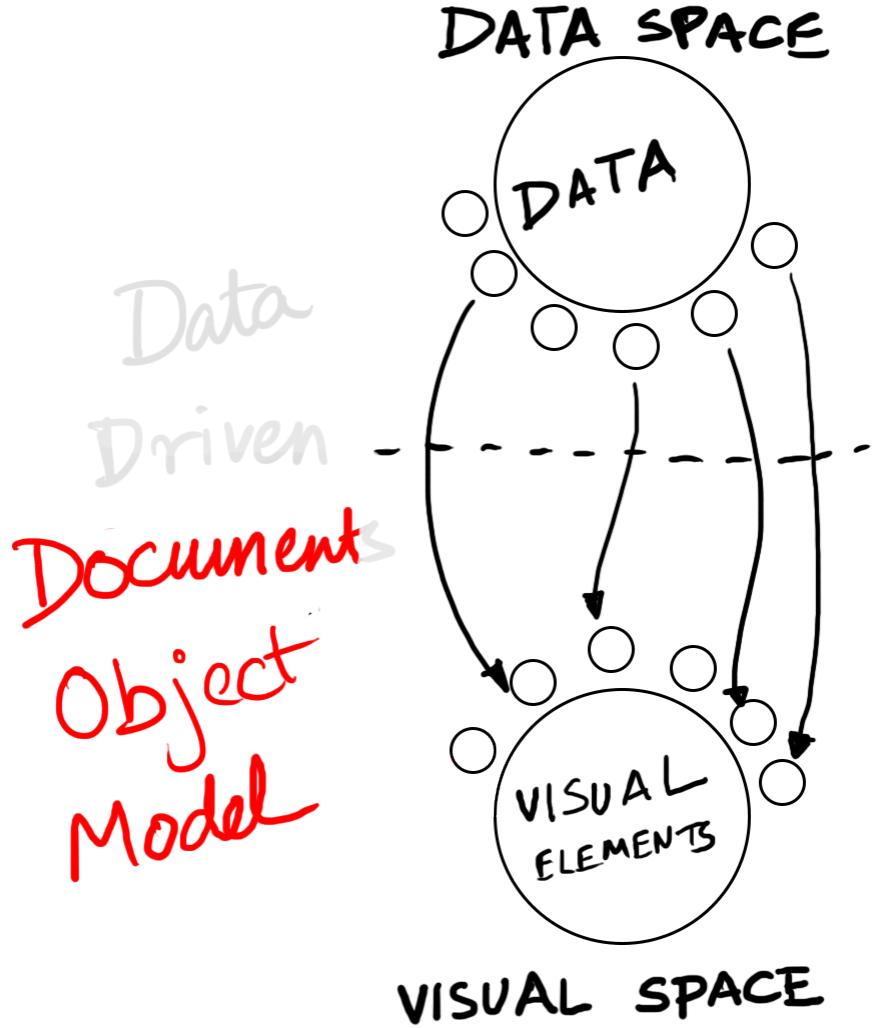


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d3?



d3?



dom

# Document

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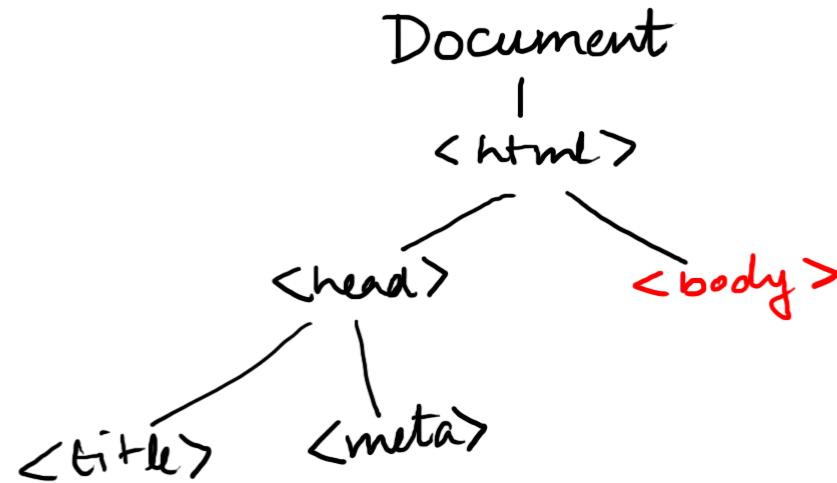
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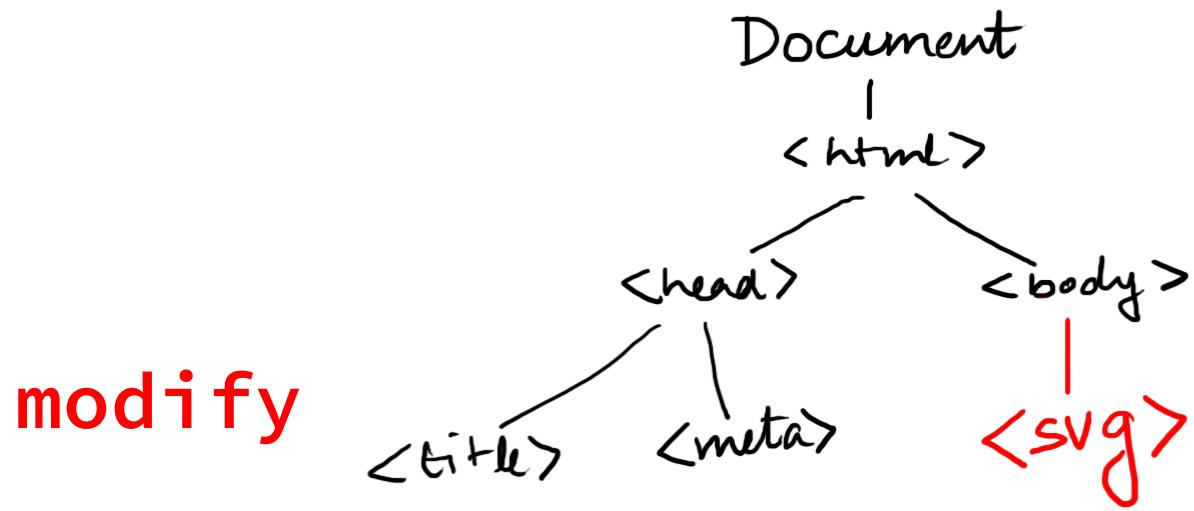
<title>

<meta>

dom

**select**





[go.ncsu.edu/d3\\_part2](http://go.ncsu.edu/d3_part2)

