

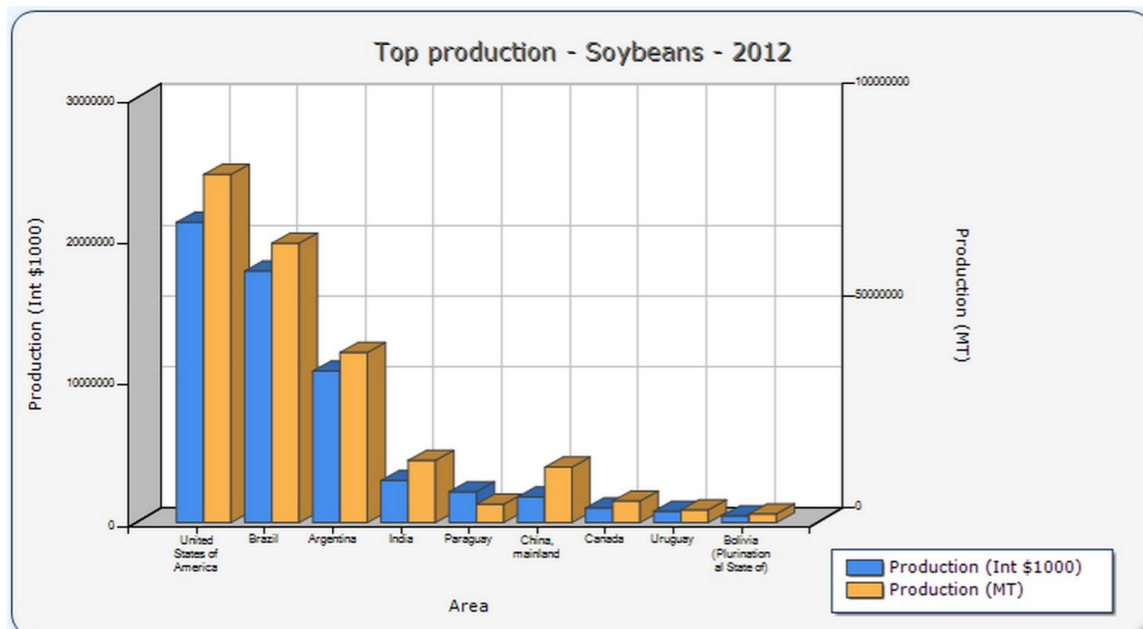
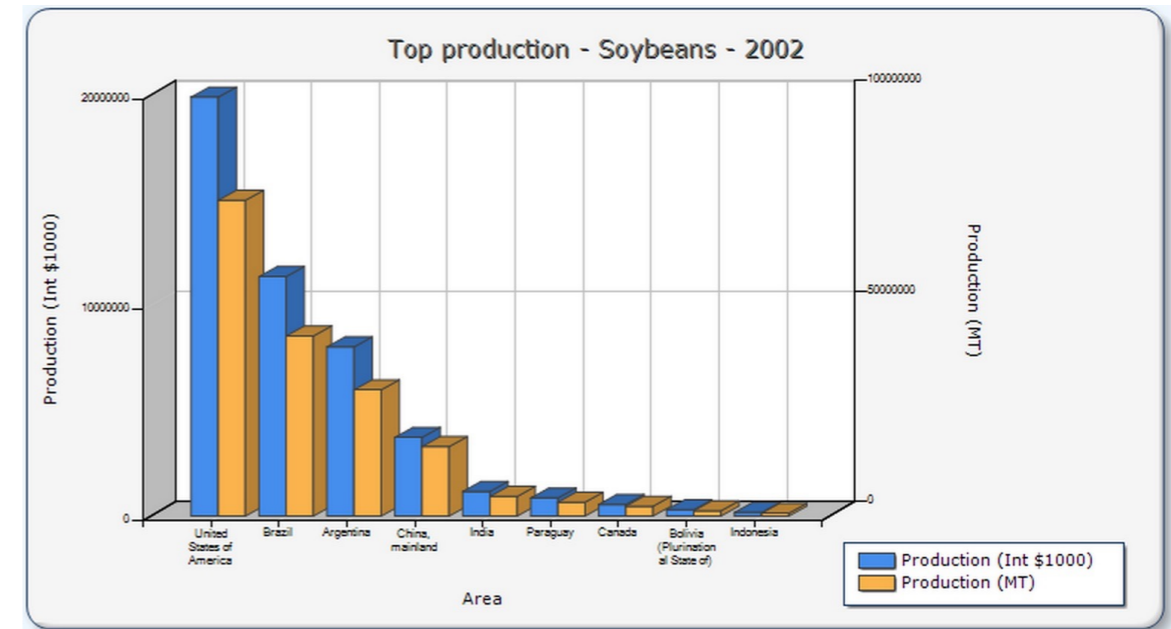
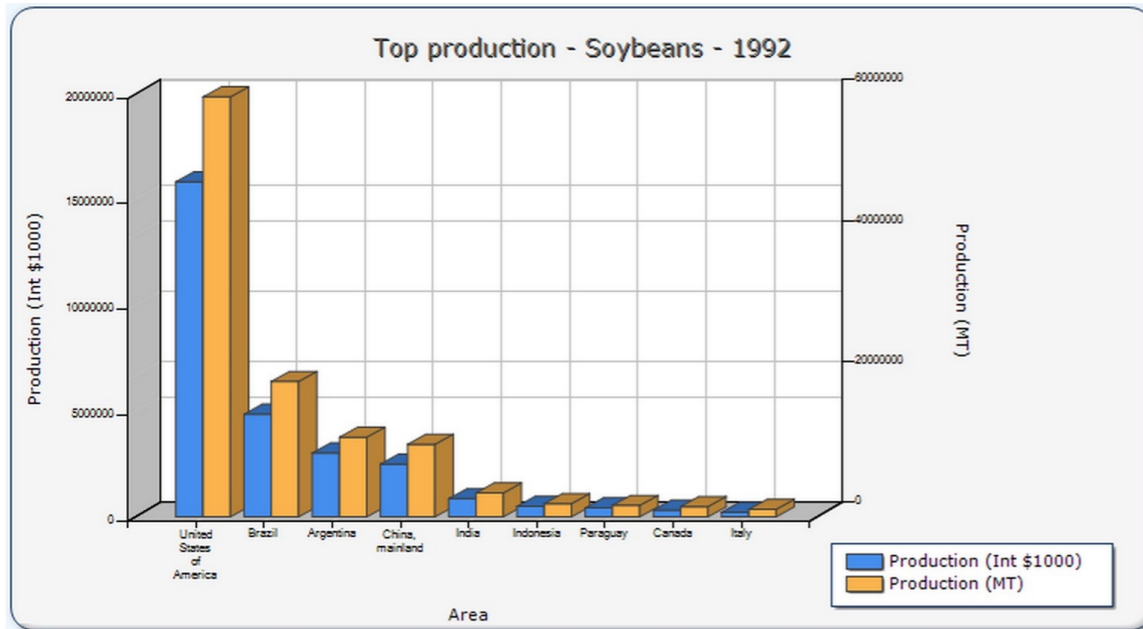
Designing Associativity. Visualization of data.

For my Design Studio researching I need to visualize a gradually increasing amounts of soya beans growing around the world. Using this information it is possible to see a global scale and, at the same time, details of soya beans market, which is necessary for my further researching of Metabolic Design theme and development of particularly my topic about mutation and GMO products.



Data.

Data were taken from a website of UN Food and Agriculture Organization (FAO). I took a data of Production (MT) or Production in metric tonnes (1000kg) for the 1992, 2002, 2012 years.



Data.

The data were input into 3 different .txt files to make 3 databases.
The thing is that all these databases have different «Top 20» countries.
So I need to make a short list of common countries for all of these years
and extract the data about Production (MT) only from these countries.

Rank	Area	Production (Int \$1000)	Flag	Production (MT)	Flag		
1	United States of America	19903811	*	75008541			
2	Brazil	11379031	*	42769000	*		
3	Argentina	8038630	*	30000000			
4	China, mainland	3737854	*	16505000			
5	India	1168881	*	4654700			
6	Paraguay	859174	*	3300000			
7	Canada	550595	*	2335700			
8	Bolivia (Plurinational State of)			299045	*	1246495	
9	Indonesia	172271	*	673056			
10	Nigeria	110254	*	464000			
11	Democratic People's Republic of Korea			89266	*	350000	*
12	Russian Federation	78329	*	422780			
13	Thailand	70171	*	259863			
14	Serbia and Montenegro	65566	*	244293			
15	South Africa	58697	*	223000			
16	Iran (Islamic Republic of)			50579	*	190000	*
17	Uganda	42998	*	166000			
18	Japan	41198	*	270200			
19	Romania	34320	*	145900			
20	Croatia	33091	*	129470			

Rank	Area	Production (Int \$1000)	Flag	Production (MT)	Flag		
1	United States of America	15856387	*	59612000			
2	Brazil	4857663	*	19214704			
3	Argentina	3022011	*	11310000			
4	China, mainland	2499180	*	10304000			
5	India	857928	*	3390000			
6	Indonesia	495844	*	1869713			
7	Paraguay	422605	*	1617940			
8	Canada	321641	*	1455300			
9	Italy	216905	*	1064777			
10	Thailand	128849	*	480148			
11	Mexico	120677	*	593540			
12	Russian Federation	118198	*	505360			
13	Democratic People's Republic of Korea			102783	*	400000	*
14	Bolivia (Plurinational State of)			80036	*	342463	
15	Republic of Korea	43910	*	175925			
16	Ecuador	36239	*	137420			
17	Nigeria	33815	*	154000			
18	Romania	31102	*	126159			
19	Iran (Islamic Republic of)			26040	*	100000	*
20	Ukraine	25986	*	120000	*		

Rank	Area	Production (Int \$1000)	Flag	Production (MT)	Flag		
1	United States of America	21230300	*	82054800			
2	Brazil	17787069	*	65848857			
3	Argentina	10714080	*	40100197			
4	India	2976638	*	14666000			
5	Paraguay	2184444	*	4344960			
6	China, mainland	1807940	*	13050000			
7	Canada	1027806	*	5086400			
8	Uruguay	807384	*	3000000	*		
9	Bolivia (Plurinational State of)			477512	*	2061430	
10	Ukraine	409601	*	2410200			
11	Russian Federation	230675	*	1806203			
12	Indonesia	219612	*	843153			
13	South Africa	170545	*	650000			
14	Nigeria	138803	*	580000	*		
15	Italy	93835	*	422100			
16	Democratic People's Republic of Korea			89419	*	350000	*
17	Serbia	62848	*	280638			
18	Zambia	54063	*	203038			
19	Myanmar	53432	*	205000	*		
20	Iran (Islamic Republic of)			53322	*	174000	*

Data.

After processing of 3 different databases I joined an information by «set intersection» and get 13 common for all of these years countries. Then using «expression» and working with lists, I figured out that USA is the leader of this Top chart. The scale of their production can hardly be compared with any of the countries from the rest of the obtained lists.

