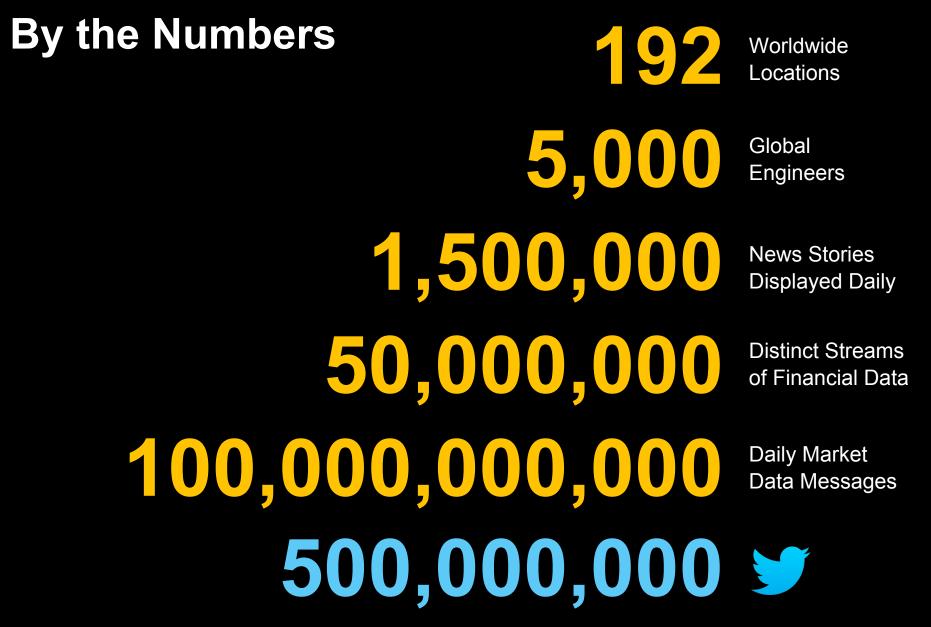
UX@Bloomberg

Eddie Ishak, Bloomberg LP October GI, 2017 ÇJ&([à^!ÁFÎ ÉGEFÌ DÁ Á

Bloomberg

This is an expurgated version of the presentation for web publication.





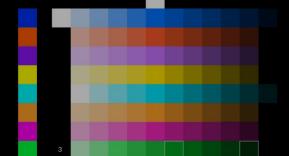
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So....

a Designer, a Product Manager, and an Engineer walk into a bar...

Function Design

www

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		United States T 2 3 08/27 0 100-22 Canada CAN1 06/01/27 90.804	12 2.173 +4.2 * 2.039 - 2.386 -4.2 0.224 2.049 -2.7 1459 - 2.052 +56.6	GTO NA d 41.375 GTODINI I 308.10	-0.42% -0.94% +4,25% +6,80% -4,22% +19,71% -24% -0.58% -0.94% -0.84% +9,82% +5,23% ++13,90% +16.	.00 .00 .00 .00
Most Up		Brazil (USD) BRAZIL6 04/26 0 111.695 - Colombia (USD) COLOM 3 7 27 0 102.355 -	0.515 4.349 +6.7 J 4.217 5.013 43.1 0.260 3.576 +3.2 3.471 3.912 +5.2	Remaining Securities (590)	-0.43 -0.951 -0.4431 -1.941 -0.741 -2.741 -7.051 -0.	19.80
Equity Indices Sovereign Bonds Commod Czech PX Greece SY Coffee N	Itties Forex Sovereign CDS NB British Pound Greece CDS	Argentina (USD) C ARGENT7 5 26 113.105 - Mexico (USD) MEX4.15 03/27 0 105.985 -	0.180 5.562 +2.4 4 5.497 6.544 -29.0 0.250 3.410 +3.0 4 3.332 + 3.802 -10.8	att 1COV GY d A 65.70 AA/ LN d 168.40		9,97 211
+1.24 \$ -5.6 bp +2.31 1036.09 c +12.65 4.331 -1.28\$ 134.90		EMEA United Kingdom C UKT4 1/2 12/27 © 130.043 -		ALL IN down 1393.5	+0.113 +0.045 +1.128 -2.005 +12.528 +28.149 +20. +0.055 +1.005 +1.645 +2.305 +5.605 +10.381 +25.	6.25 21.67
Brazil IBOV South Korea 2Y Net Ges	NYM Sweden Krone Israel CDS	France FRTR 1 05/27 @ 102.842c -	0.629 0.696 +6.6 1.579935 +10.4	ABEN VX d 23.35	-0.045 +1.175 +2.645 +3.275 +6.235 -3.635 +8.	23.35
+1.20 % -4.4 bp +1.90 75213.44 d +894.22 1.762 -2.45% 3.006 d		Germany DBR0 5 08/27 0 101.000c - Italy BTP52.2 06/27 0 101.761c -	0.631 0.397 •6.4 223 597 •15.2 0.497 2.009 +5.6 1.879 2.331 +.6	ABF LN d 3142.0	*0.205 *1.265 1.771 *4.473 0.415 *6.015 *14.	461 22.63 61.79
Most Down	Bites estimates and a second sec	Spain SPGB 1.45 27 98.734c - Portugal PGB4 % 04/27 @ 110.864c -	0.300 1.586 •3.3 N 1.350 •• 1.716 •16.3 0.426 2.812 •4.8 2 2.686 • 3.134 •13.3	ABN NA d 23.615	0.001 +1.59% +1.66% +2.30% 4,931 +3.53% +12.	191 - 8.95
Equity Indices Sovereign Boods Commod Argentina HERWAL Revolution Content Content		Sweden SGB0 3, 05/28 99.637c	0.661 0.786 6.5 368 830 42.7 0.615 0.517 +6.3 428 762 +5.9	AC FP d 40.855	+0.021 +0.835 +1.965 +2.705 +4.605 +0.705 +15. -0.071 +1.505 +4.665 +4.605 +1.090 +8.815 +29.	60.36 60.36 15.58
-1.52 % +12.0 bp -4.16 23700.75 d -365.74 1.358 +9.713 09.11		Switzerland SWISS 3 * 27 C 133.752 - Greece GGB3 02/24/27 88.738c +	0.441 -0.168 -3.7225001 -4.9 0.064 5.373 -0.9 N 5.153 - 5.724 -36.3	ACKB BB d Man 143.45 ACS SC 143.45 31.775	0.21% +0.31% +1.05% +1.05% 3.47% 2.37% +8. -0.25% -0.90% -0.39% -0.01% +2.50% 10.98% +5.	17.41 17.41 27.93
Slovakia SKSH Lean Ho		Asia/Pacific		AD NA d 14.965	-0.17% -0.03% -0.03% -0.03% -10.92% -22.06% -25. -0.07% +1.05% +2.49% +3.44% +4.49% +0.35% +9.	37 → 17.40 14.13
-0.86 t +11.9 bp -3.69 329.71 c -2.85 +2.08 7 59.300		Australia ACGB 2 3 27 @ 101.006c -	0.327 2.636 -3.6 2.351 - 2.745 -23.8	ad ACHILN 1200-1831.0	-0.441 -0.441 -0.111 -2.124 -13.875 -10.411 +3.	22.83
		New Zealand NZGB 4 ½ 27 0 114.402c - South Korea NDFB 2 ¼ 27 0 99.554c +	0.084 2.778 +0.9 2.699 3.020 +2.5 0.002 2.239 +0.1 2.109 2.324 +3.9		1 EBS AV Equity - 1	
UERZIERCA N.A. Equities Noming Ins	sights 🔹 🖬 Global Macro News			Erste Group Bank AG (Vienna) Price 20 Inditionation Mathematica Bid/	Ask 1, 30m A 200-AVAT 10 News Chart 5D News Events Trade	Summary in Note
09/08 Catastrophe Bonds Brace For Disaster		Global 37969 Securities Global Harket Intraday Return by Region	Ticker Last Price Time L10 Last Price SPX 0 22495.23 13:26 +0.291	*36.55 +3.23% +1.98% 0%	/98% +51.7% Volume Next Earnings 1.4M	+0.59% 0.15/0.40
This is shaping up to be the worst month e the market was taking off.	ever for catastrophe bond investors, just as	Latin America & Caribbean (a) North America (a) 4.90%	- Top Performers (10)	vs Peer Avg	S2 Days BBK	220k 3 Hovers 215k
	surance and are increasingly popular for their	Asia Pacific	CTL UN d 19.25 13:26 +4.34%		Sentiment LCO	196k 143k
levels of volatility. But if they get triggered principal. The year through June saw record		(i) (c) 0.25	GPS UNd 27.91 13:26 +7.595 +2	Default Risk 17 Debt 307 1M Imp Vol 3M BEst	EPS 3M Consensus Rtg 2010 11 Valuation 2V Premiu	m 2Y Venue Volume Insider Pct 1Y
Securities, half of it in 2Q.	issuance, according to a report from non	Globel by region	LB UN d 40.00 13:26 +5.54% 4	IG8 0.10641 47.79B 25.76 2.8	36 3.77 ⁺ 65.48⊯ 12.2x +8%	1.97M .06%
	to hit the country in a century, may wipe out by the World Bank (fastest default ever?). At	(a) 0.731	# PRGO UN 189.23 13:26 +4.89% 4	Hodel CDE, 45 bp	217 PT (1290) 36.38 VGg 10 0.0 BFP/E vs Pee	1X 315.18k
	urther \$12 billion of bonds that protect against	Mestern	RRC UN d [18.19 13:26 +7.198 d SIG UN d [68.83 13:25 +3.911 d	Purchange Martin		235.42k EB 202.80k
Hedge fund Nabila Capital, which invests in th		Europe (+) 0.28%	Bottom Performers (10) ANTM UN 1189.41 13:25 -3.34%			01 526.29k
calm. The criteria can be very specific (I on	ce wrote about a Mexican bond that depended the storm at landfall had been above or below	Group by Region Sector	AVB UN d 1184.72 13:23 -2.031		= Options / _ El G 328: Custom Sessonality / LEBS AV	
920 millibars). Host bonds are structured to	protect against once-in-a-lifetime risks, and it ir bonds will default or not. According to Aon,	INAP I Equity Ind: + I INDU In: + ** = /	al DRE UN d 129,485 13:25 -2.176	 Starea pietei 11 - 15 septembrie 2017 Czech PX Rises 1.2% to 1,03S.89; CEZ Leads A 	dvance	60 F60
only one North American bond was triggered		INDU > GICS 30 Securities	EXR UN d 177.76 13:26 -2.475	Erste Upgraded to Buy at Kepler Cheuvreux; P Erste Raised to Buy at Kepler Cheuvreux, PT E	1145 M L N	Hi: 42.939
My colleague Oliver Suess has more on the o He made this chart, which shows 5% dips in t	the Swiss Re Cat Bond price index after	INDU Percent Price Change by GICS Sector Industrials (d)	PSA UN 1207.77 13:23 -2.64	Fitch: Austrian Banks' Earnings to Stay Strong Stockpicking for European Banks Will Shift Up		Number of an
previous disasters. Bonds Can Lose	and annual the case and at the induce areas	Consumer Staples 0.10%	WEC UN d (65.67 13:18 -2.04%	 Starea pietei 4 - 8 septembrie 2017 Austrian Banks Show Better Resilience in Stre 	ss Test	
Plager events have cast investors in the past Rises to taken interview later		Health	al A UN d 166.02 13:25 -0.14% - 19	 AUSTRIAN BANKS SHOW BETTER RESILIENCE II Banca Transilvania Rises Most in 2 Months Aft 	N CLEANK STRESS TE	Mar Mar Mar Mar Coste
			AL UW d 46.085 13:26 +0.499	Austrian Banks to Repay Interest After Overch Czech PX Falls 1.1% to 1,024.81; Erste Leads 8	arging: APA	Man word allocat
		(INDU by GECS (d) 0.30%	AAPL UW 161.98 13:26 0.30 APL UW 161.98 13:26 0.30 APL UW 186.97 13:26 0.03	Austrian ATX Falls 1.8% to 3,146.59; Erste Leads Starea pietei 28 august - 1 septembrie 2017		and f
why w. w	Ma n =		ABC UN d 184.77 13:25 +0.45	Erste Group: Hartin Radjaby-Rasset takes over	r as Head of Strate	-40
1 MVA	V~110		d ACN UN d 1136.59 13:24 +0.265 ADBE UW 1155.01 13:25 -1.19	Erste Group: 22.08.2017 - Publication of a tra Stares pietei 21 - 25 august 2017		-60
	Horizon Harris 1	Consumer Discretionary (d) (d)	ADI UW d 181.98 13:25 -0.29%	+Erste Group: 18.08.2017 - Announcement purse Erste Drops BMW, Daimler From 'Sustainable'	Investment List 2 YRS AGO 0.913 3 YRS	
2005 2016 2017 2018 2009 2018 2011 2012 2013		-0.191 0.331	ADP UWd 107.97 13:26 +0.446 - 4	Hoody's corrects rating and rating history for HSBC Tops Natixis, UniCredit to Gold in 20 Pri	ISINS AT0000A14P	-80
Most of the Florida bonds have triggers relation	ting to the insured losses of companies, so we	Group by Region Sector	ADS UN d 2221.02 13:19 +0.83%	and the same the same in all the	2016	2017



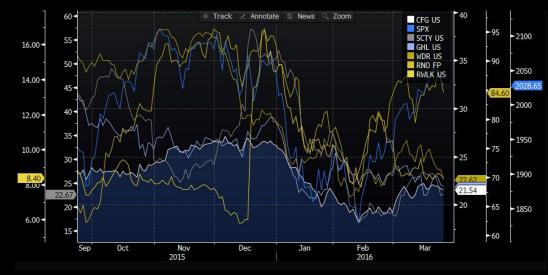
Slight of Hand?





Breaking Down Barriers



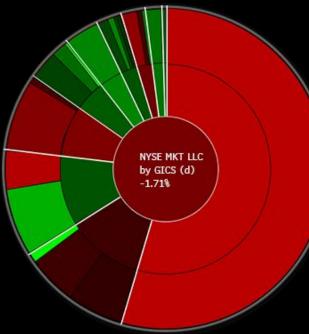


Equity Indices		Forex (USD)		Sovereign Bonds		CDS (5Y)		Commodities	
Chile IPSA		Philippines Peso NDF		Thailand 30Y	6	Brasil CDs		Cattle Feed	
1.66 % 3962.90	+64.78	.81 % 46.56	+.38	14.2 bp 2.690	-5.01%	18.46 bp 366.69	-4.79%	7.46 % 151.50 c	-18.78
Turkey BIST 10 1.92 % 82943.44 c +:	00 1566.30	Turkey Lira .88 % 2.8668	+.0254	Colombia 5Y 21.1 bp 7.423	-2.76%	Philippines CDS 3.86 bp 94.74	-3.91%	Cattle Feed 2.34 % 160.70 d	-3.85
Czech PX 1.84 % 914.85 c	+16.53	Chile Peso NDF .87 % 678.10	+5.88	Israel 5Y 5.0 % .660	-7.04%	Indonesia CDS 6.65 bp 183.43	-3.50%	Cattle CME 1.22 % 129.10 d	-1.60
New Zealand Ni .76 % 6623.50 c	ZX50 +50.05	Sweden Krona .63 % 8.2311	+.0520	Japan 30Y 15.4 % .436	-26.10%	Chile CDS 3.34 bp 87.41	+.17%	Ethanol 1.30 % 1.45 d	02
Greece ASE 3.29 % 548.58 c	-18.66	China Renminbi .21 % 6.5213	i NDF +.0180	Chile 5Y 4.0 % 4.170	94%	Malaysia CDS 5.68 bp 143.25	-3.81%	Coffee ICE 1.58 % 1482.00 c	+23.00
Malaysia FTSE 1.43 % 1692.51 c	+13.15	Singapore Dolla .23 % 1.3475	ar +.0067	Norway 5Y 5.3 % .645	-7.57%	Austria CDS 2.83 bp 27.01	+3.57%	Rubber SHF 1.77 % 11390.00 d	-205.00

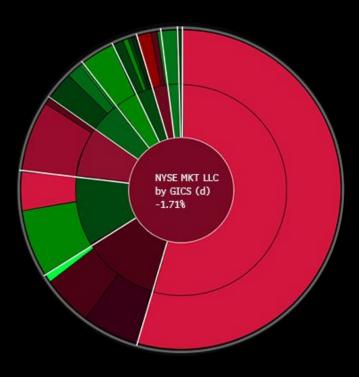
Equity Indices	Forex (USD)	Sovereign Bonds	CDS (5Y)	Commodities
Chile IPSA 1.66 % 3962.90 +64.78	Philippines Peso NDF .81 % مر 46.56 +.38	Thailand 30Y 14.2 bp ↓ 2.690 -5.01%	Brasil CDs 18.46 bp へ ↓ 366.69 -4.7%	Cattle Feed 7.46 % ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
Turkey BIST 100 1.92 % ↓ 82943.44 c +1566.30	Turkey Lira .88 % \m^ ↓ 2.8668 +.0254	Colombia 5Y 21.1 bp 7.423 -2.76%	Philippines CDS 3.86 bp → ,,, ↓ 94.74 -3.91%	Cattle Feed 2.34 % ~ ~ ↑ 160.70 d -3.85
Czech PX 1.84 % مسمر بيهم 914.85 c +16.53	Chile Peso NDF .87 % _ ↓ ↓ 678.10 +5.88	Israel 5Y 5.0 % .660 -7.04%	Indonesia CDS 6.65 bp ~ ~ ↓ 183.43 -3.50%	Cattle CME 1.22 % [™] ⊮ ↑ 129.10 d -1.60
New Zealand NZX50 • .76 % ↑ 6623.50 c +50.05	Sweden Krona .63 % √√√* ↑ 8.2311 +.0520	Japan 30Y 15.4 % ∽∽∽∽∽ ↓.436 -26.10%	Chile CDS 3.34 bp	Ethanol 1.30 % ↓ 1.45 d02
Greece ASE 3.29 % √-√-√- ↓ 548.58 c -18.66	China Renminbi NDF .21 %	Chile 5Y 4.0 % ↓ 4.17094%	Malaysia CDS 5.68 bp ۲۰ مر 143.25 -3.81%	Coffee ICE 1.58 % مسمر ↑ 1482.00 c +23.00
Malaysia FTSE 1.43 % ۲۰٫۰٫۰ م. 1692.51 c +13.15	Singapore Dollar .23 % ∿,~ ↓ 1.3475 +.0067	Norway 5Y 5.3 % کسر 1.645 -7.57%	Austria CDS 2.83 bp ↑ 27.01 +3.57%	Rubber SHF 1.77 % ~~√ ↓ 11390.00 d -205.00

No color vision deficiency

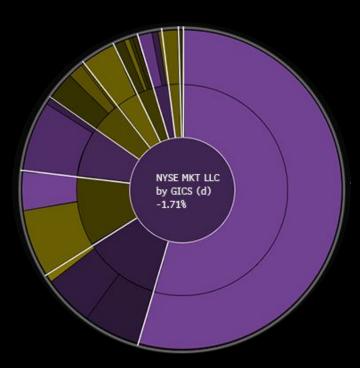
Original Bloomberg Palette



Current

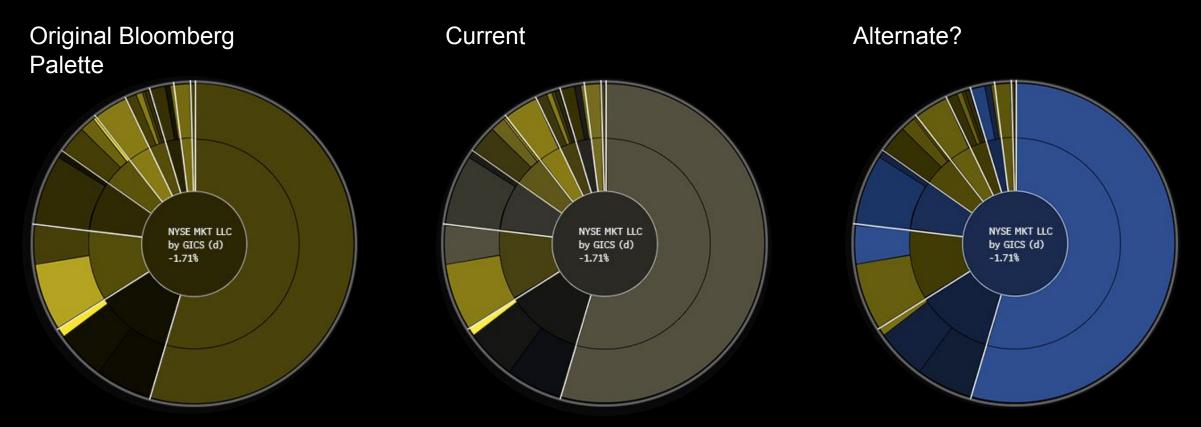


Alternate?





Deuteranopia



Deuteranopia (reduced sensitivity to green light) most common form of CVD (approx 5% of males).

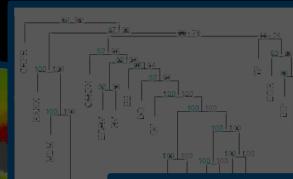
Determining User Needs



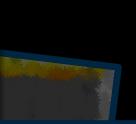


Data Analysis





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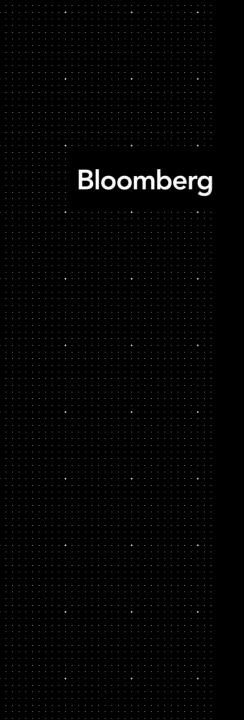




Card Sorting Exercise

Contextual Inquiry

Let's Make a Sandwich...



Thank you! Questions?