



Intelligent Stock Screener

How do you pick stocks? Experts, amateurs, fools, billionaires, and professors have been pondering this question forever. Now, you too can join their ranks.

Traditional stock “screeners” have looked like Figure 1. We want something closer to Figure 2.

No.	▲ Ticker	Market Cap	PIE	Fwd PIE	PEG	P/S	P/B	P/C	P/FCF	EPS this Y	EPS next Y	EPS past 5Y	EPS next 5Y	Sales past 5Y	Price	Change	Volume
1	A	26.34B	34.81	22.17	3.52	5.03	5.47	19.06	36.78	26.10%	11.36%	37.50%	8.88%	5.00%	84.35	5.02%	1,866,923
2	AA	2.38B	-	29.27	-	0.23	0.58	2.71	7.76	-559.70%	540.00%	-34.10%	-	-4.50%	12.88	-0.46%	7,353,906
3	AAAU	-	-	-	-	-	-	-	-	-	-	-	-	-	16.34	0.18%	292,991
4	AACG	29.13M	-	-	-	4.48	0.57	1.94	-	-475.30%	-	-38.30%	25.00%	-67.80%	1.00	1.96%	23,757

Figure 1: Traditional Stock Screener

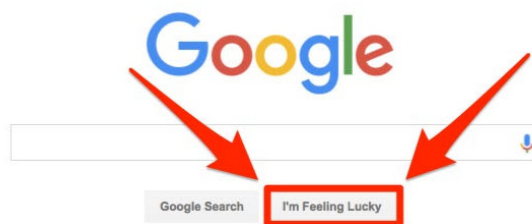


Figure 2: Do You Feel Lucky, Punk?

What is the intelligent middle ground? How can visualizations help a user navigate the stock landscape better? Can filters be adaptive? Does every data point deserve a drop down? There are many such questions that have not been asked, and we want to ask them. This project is open-ended, and can be taken in multiple directions. The student is expected to choose a direction, and take the project to its logical conclusion in that direction.

Requirements:

- Data collection, refinement, and storage.
- Visualizations. UX.
- Interest in stocks and financial markets.

Interested? Please contact us for more details!

Contact

- Tejaswi Nadahalli: tejaswin@ethz.ch, ETZ G97