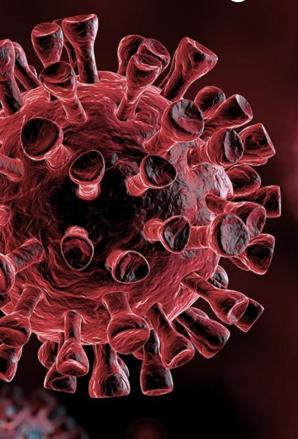
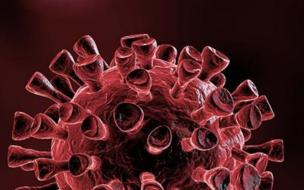
COVID-19 EFFECTS ON THE ECONOMY





PANDEMIC PANDAS:
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Summary

There is no question that COVID-19 had an unprecedented effect on our economy. The Pandemic Pandas took a deeper dive into several companies to see just how much of an impact the virus had across industries, and is it all bad?

Questions We Asked

- What are the effects of Covid-19 on company/stock performance?
- Which industries/companies performed well and which performed poorly?
- What companies/products/services are considered essentials?
- What lessons can we learn from companies who thrived during this pandemic?

Scope

- Timeline: identify major milestones of Covid-19
- Publicly-traded companies
- Domestic data
- Consumer brands
- Diverse industries



Data

Stock performance

Price-to-earnings ratio (used by analysts to determine a company's relative value)

Hires/layoffs in the last month

Quarterly report press releases

Data Cleanup and Exploration

Data sources and pull methods

Exploration and cleanup process

Insights we had while exploring the data that we didn't anticipate

Problems that arose after exploring data, and how we resolved them



Covid-19 Cases Across the US



3/13 # of Positive Cases: 3,004 Trump declares national emergency



3/27
of Positive Cases: 105,462
Trump signs \$2T stimulus packages



4/16 # of Positive Cases: 664,129 White House issues guidance to reopen

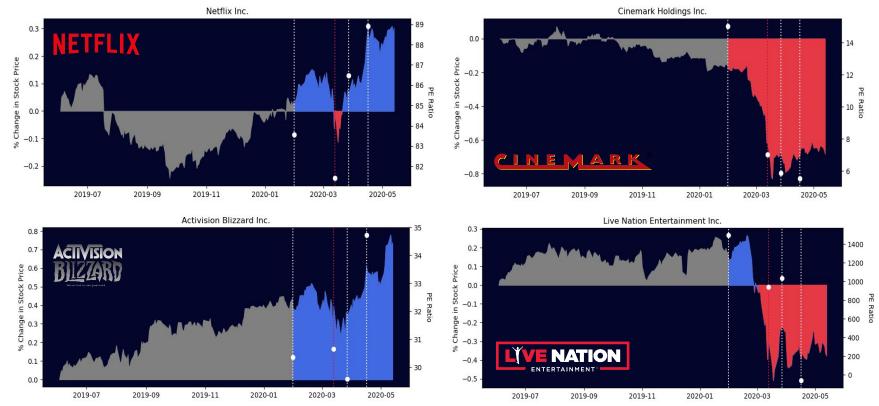
Industry Selection

In reviewing the biggest winners and losers of the stock market in the last month, several consumer-facing industries stood out:

- → Entertainment
- → Retail
- → Food
- → Travel
- → Household Products

Entertainment

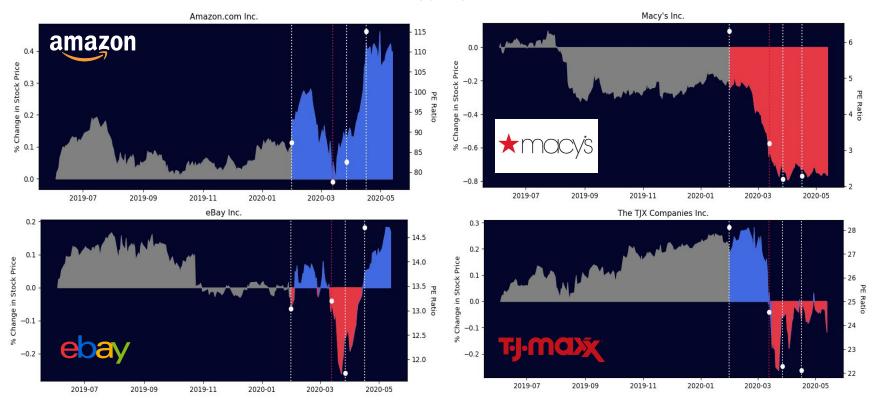
At-home entertainment thrived with stay at home orders, while on-site events came to a halt.



1/31: WHO declares pandemic | 3/13: Trump declares natl emergency | 3/27: Trump signs \$2T stimulus | 4/16: WH issues guidance to reopen

Retail

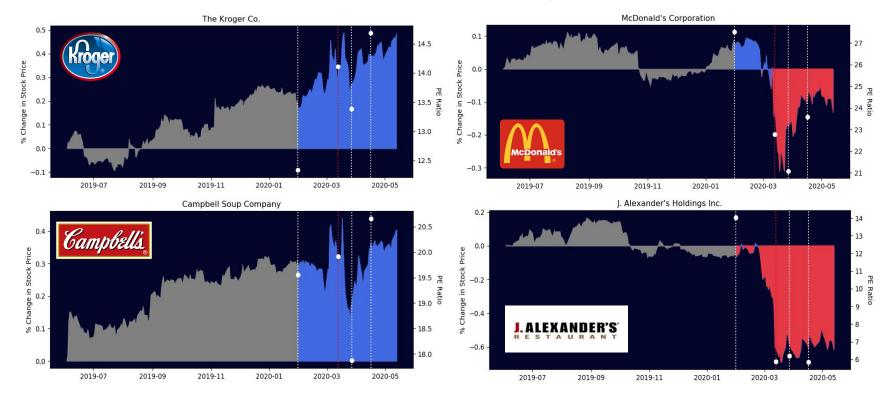
Online retailers have done well while already struggling brick-and-mortar stores have tanked.



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Food

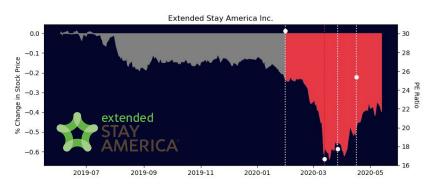
Grocery stores are essential while sit-down restaurants are trying to stay afloat with take-out.

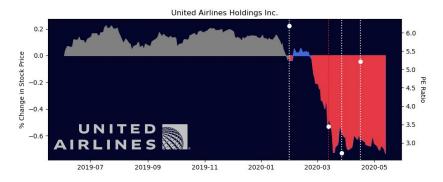


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Travel

Travel came to a screeching halt but we found a surprising financial uptick with Extended Stay hotels for essential workers who need to quarantine from their families.



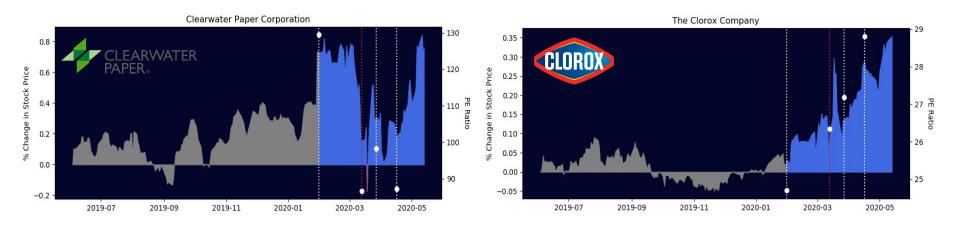




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Household Products

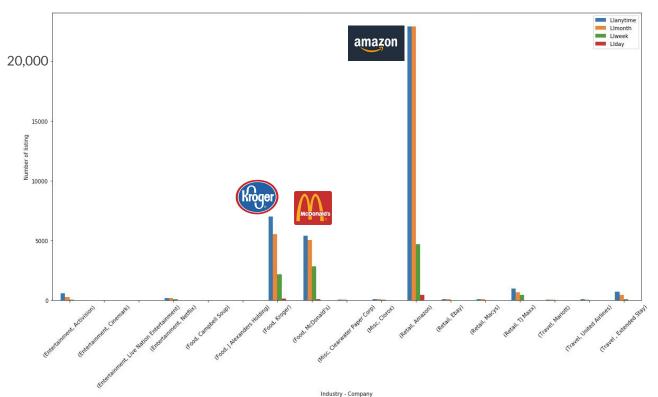
We couldn't talk about the pandemic without looking at the 2 most sought after products: toilet paper and disinfectant products





New Hires

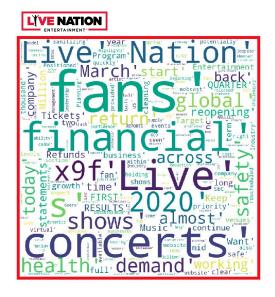
Companies across industries are struggling to hire, but a few outliers had a surge of job postings in the last month since the pandemic took over.



Press Releases

We looked at quarterly report press releases to get a sense of leadership's sentiment to their stakeholders. Despite the economic hardship, some companies are staying true to their priorities: their employees, their customers, health and safety.









Conclusions

What are the effects of Covid-19 on company/stock performance?

Effects varied depending on certain companies

Which industries/companies performed well and which performed poorly?

- Our data analysis revealed winners and losers within each industry;
 it wasn't all downhill.
- The type of business and how the product is consumed were key factors in a company's success or downturn.

What lessons can companies learn from those who thrived during this pandemic?

Sell online, customers are consuming at home

Post Mortem

What are some difficulties that arose?

- 5 pulls per minute limit on an API, slows down the process
- Timeseries dates needed special handling
- Difficulties on Yahoo Finance

What are some additional questions that arose?

What are other factors that would affect company's stock and financial performance, such as government stimulus to certain industries?

What would we research if we had 2 more weeks?

- Look at states that are starting to open up businesses
- Look at other countries that have opened up to see if there's indicators for US

Thank You

