

Today's researchers have the ability to turn petabytes of information into meaningful discoveries. All they need is a computer powerful enough to process it.

This power, historically reserved for the realm of theoretical science, is now available to all - economists and sociologists, engineers and anthropologists, linguists and historians. High-performance computing (HPC) fuels groundbreaking research in a variety of disciplines today.



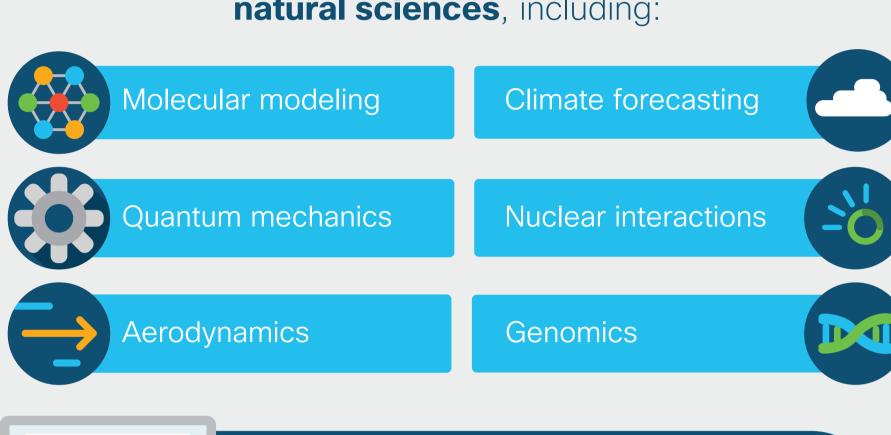
### Black holes and dying stars

Using HPC, scientists can safely simulate what might happen in close proximity to a black hole, as well as the conditions under which they arise.

Discoveries about black holes aren't the only scientific advances made possible by supercomputers.

2,800 Light Years Distance to the Closest Black Hole

### HPC can fuel many types of research in the natural sciences, including:





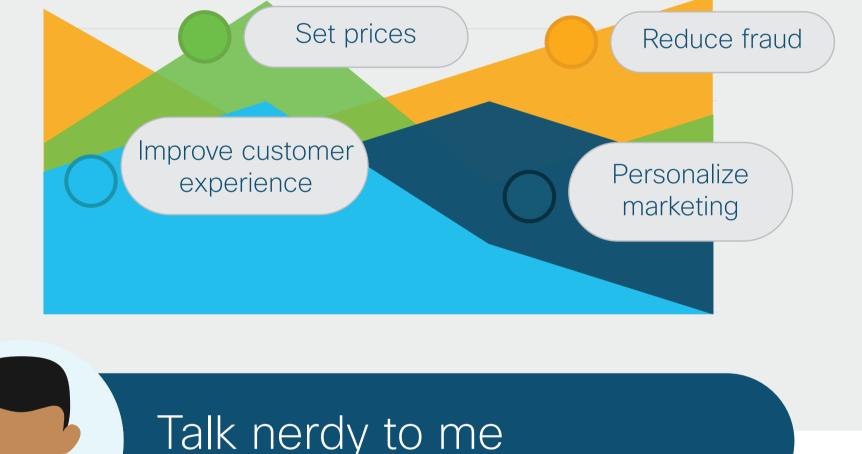
# To err is human, to understand is big data

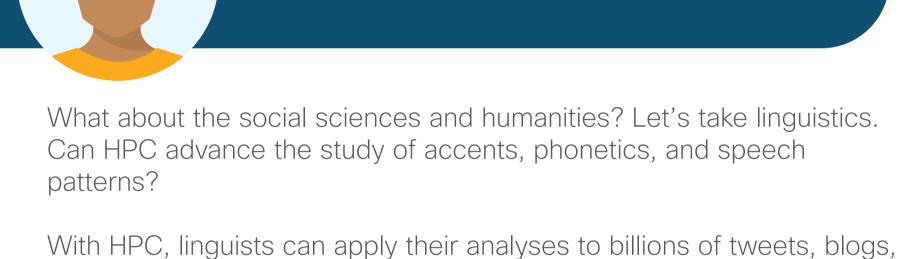
try demystifying the paradoxes of human behavior. The amount of data points to consider is staggering. With trillions of interactions and transactions occurring online, economists

If unraveling the mysteries of the cosmos seems like a daunting task,

and behavioral scientists are using HPC to run big data applications to analyze all that information.

What can they do with it?





With HPC, they can:

## Note accent shifts using tweets from different regions

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articles, and books posted online.

### Compare millions of articles to note

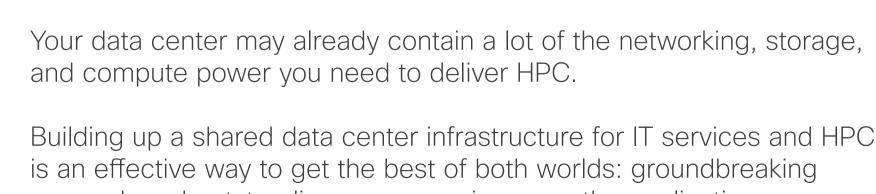
stylistic trends

over time



# They're already doing it.

It's not as hard as you think



and compute power you need to deliver HPC.

is an effective way to get the best of both worlds: groundbreaking research and outstanding user experience on the applications your students and professors are using each and every day.

automated, secure Cisco Data Center solutions that embrace hybrid transformation to enhance teaching, learning, and research.



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