# Beginning of Universe

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### Introduction

The Big Bang was the moment 13.8 billion years ago when the universe began as a tiny, dense, fireball that exploded. Most astronomers use the Big Bang theory to explain how the universe began. But what caused this explosion in the first place is still a mystery.

#### Research Goal

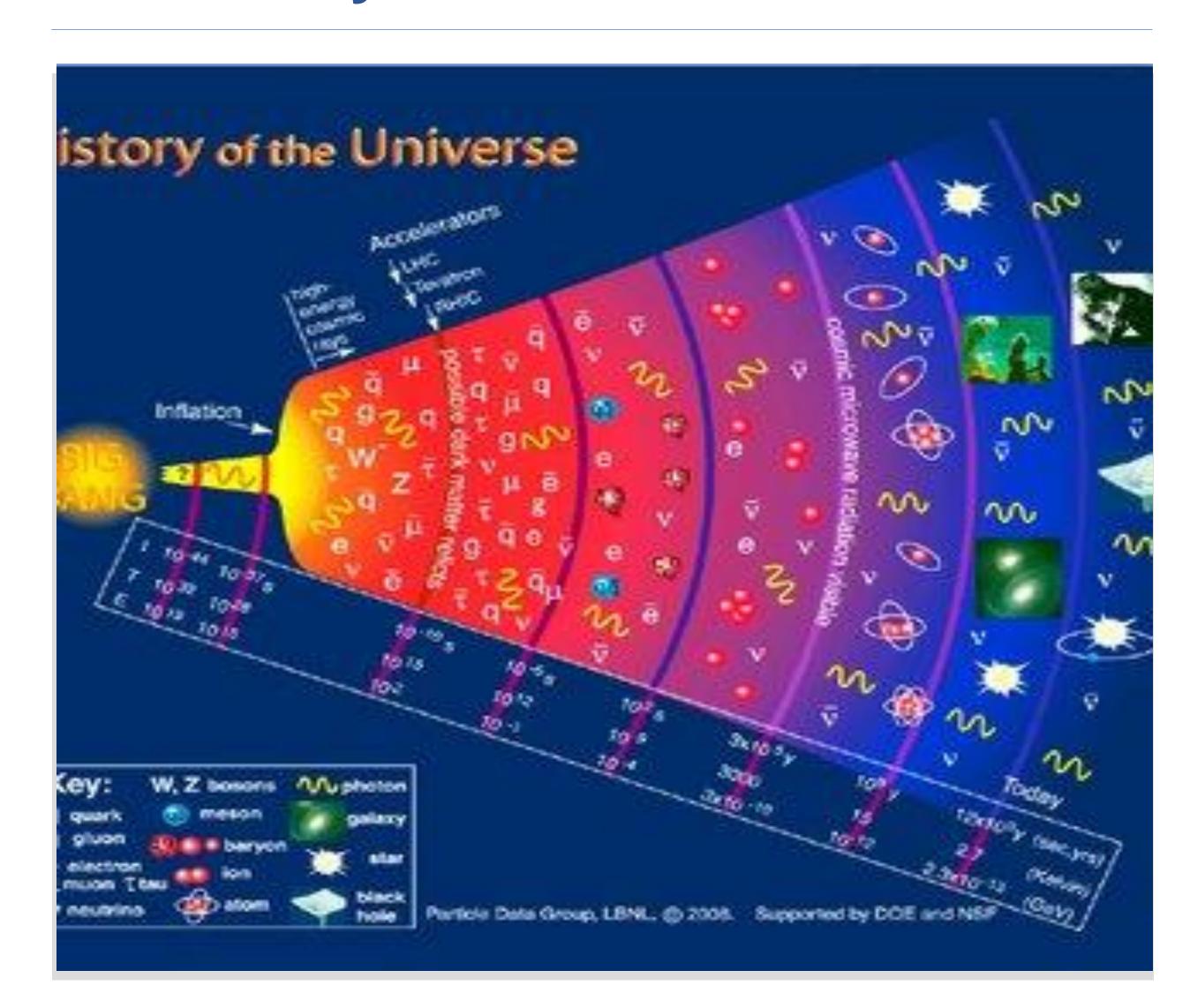
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## Methodology

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## Data Analysis



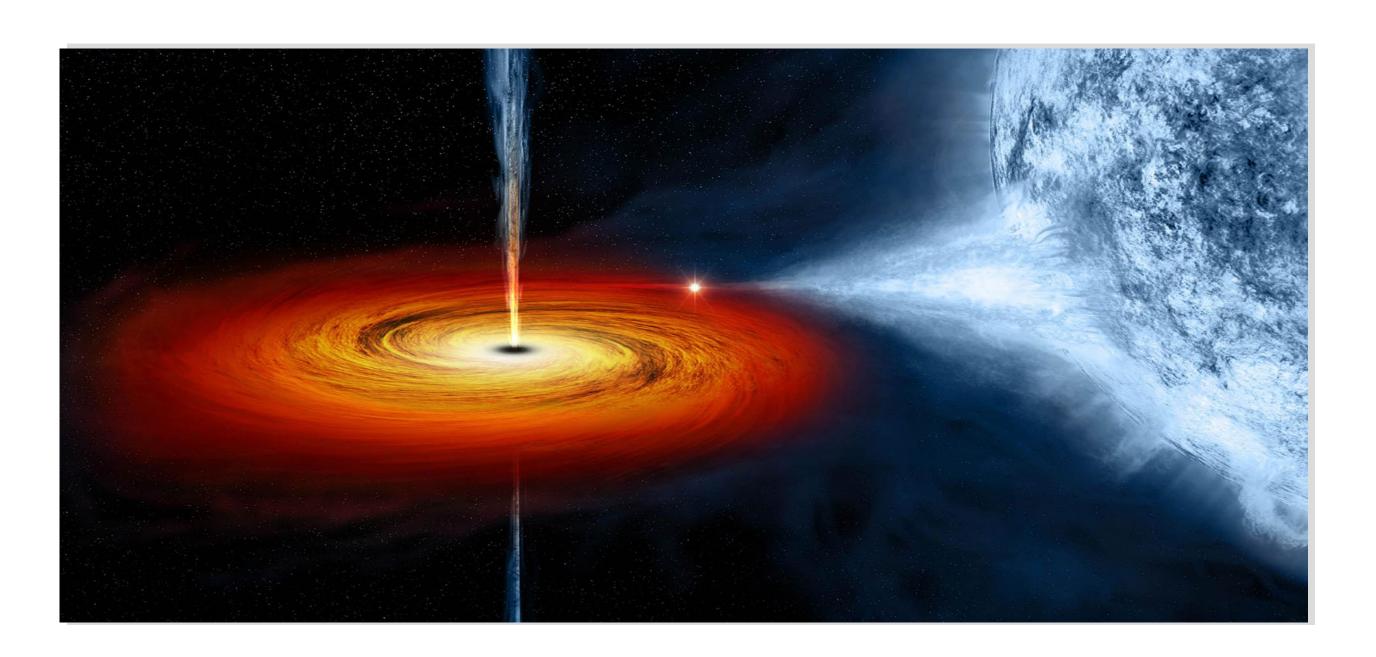
Scientists learned that the universe continues to expand in 1929 when astronomer Edwin Hubble discovered that distant galaxies are moving away from us. Today, scientists continue to make remarkable galactic discoveries. For instance, a team of researchers working with the Baryon Oscillation Spectroscopic Survey (BOSS) have been able to determine the distances to galaxies more than 6 billion light years away to within an accuracy of 1%. As astronomers and other scientists continue to push the boundaries of space exploration, big data analytics can help researchers gain deeper insights about the origins, makeup, and future of the universe.

For instance, the first stars of the universe are believed to have formed a few hundred million years after the so-called "Big Bang," which scientists say occurred about 13.7 billion years ago. The oldest known star with a calculable age, the Methuselah star, could be as old as 14.5 billion years, thus posing a dilemma against the estimated age of the universe.



## Conclusion

Since everything that begins to exist has a cause of its existence, and since the universe began to exist, we conclude, therefore, the universe has a cause of its existence. We ought to ponder long and hard over this truly remarkable conclusion, for it means that transcending the entire universe there exists a cause which brought the universe into being ex nihilo



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