

## CORE\_analysis\_of\_General\_relativity\_01

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I will analysis “General relativity” of Wikipedia a little with CORE. The codes of CORE are only “---”, “<”, “>”, “/”, “[”, “]”, “\$”, “◇”. “□” is “[“ + “]”. ◇ means <that>, <which>, … \$ is free-pronoun. Those codes act as like the virus. However they are not biological things but cultural things, then I will call them as “CORE means”. Look at first sentence of “General relativity” of Wikipedia.

**General relativity** or the **general theory of relativity** is the [geometric theory](#) of [gravitation](#) published by [Albert Einstein](#) in 1916.

I select 5 target words from this sentence, as “**General relativity**”, “the **general theory of relativity**”, “the [geometric theory of gravitation](#)”, “[Albert Einstein](#)”, “1916”. And I select 4 relation words, as “or”, “is”, “published by”, “in”. So I add CORE means to such 4 relation words, as “<or>”, “<is>”, “<published by---”, “/in/”. I think that “/or/” may hold good. What is more, I think that “or” may hold good. Then “**General relativity** or the **general theory of relativity**” is one of target word. There are several ways to think. At last, I mark □ behind the period. Therefore I get next expression.

**General relativity** <or> the **general theory of relativity** <is> the [geometric theory](#) of [gravitation](#) <published by--- [Albert Einstein](#) /in/ 1916. □

I think this style is not bad. But I want more style to see easily. Well next, I put “Enter” key or “Return” key at adequate position to read easily. And I adjust the head position of each new paragraph. Therefore I get next style. Not only this style is right, but also several styles may exist for good image to original thought. Please image as you can do.

**General relativity** <or> the **general theory of relativity**

<is> the [geometric theory](#) of [gravitation](#)

<published by--- [Albert Einstein](#) /in/ 1916. □

There are example lines of my operations. Other styles might be good. Please try as you like to the sentences which you select.

It <is> the state-of-the art description of [gravity](#) /in/ modern [physics](#). □

It ---unifies> [special relativity](#) <and> [Newton's law of universal gravitation](#),

[and] ---describes> gravity

<as> a property of the geometry of [space](#) and [time](#), <or> [spacetime](#). □

In particular,

the [curvature](#) of spacetime <is directly related to> the [four-momentum](#)

([mass-energy](#) /and/ linear [momentum](#))

of whatever [matter](#) /and/ [radiation](#) <are> present. □

The relation <is specified by--- the [Einstein field equations](#), <>

a system of [partial differential equations](#). □

The predictions of general relativity

<differs significantly from> those of classical physics,

especially \$---concerning> the passage of time,

the geometry of space,

the motion of bodies /in/ [free fall](#),

<and> the propagation of [light](#). □

Examples of such differences ---include> [gravitational time dilation](#),

the [gravitational redshift](#) of light,

<and> the [gravitational time delay](#). □

General relativity's predictions <have been confirmed—\$

/in/ all [observations and experiments](#) to date. □

Although general relativity <is> [not the only relativistic theory of gravity](#),

it <is> the simplest such theory

◇ <is consistent with> the experimental data. □

However,

\$---unanswered> questions ---remain>,

the most fundamental being

◇ how general relativity <can be reconciled with>

the laws of [quantum physics](#)

/to/ \$---produce> a complete

/and/ self-consistent theory of [quantum gravity](#). □

Einstein's theory ---has> important astrophysical applications. □

It ---points towards> the existence of [black holes](#)

—regions of space /in/ which space and time <are distorted—\$

/in/ such a way that nothing,

not even light,

---can escape>

—<as> an end-state /for/ massive [stars](#). □

There <is> evidence

◇ such [stellar black holes](#) <as well as> more massive varieties of black hole

<are> responsible

/for/ the intense [radiation](#) <emitted by--- certain types of astronomical objects

<such as> [active galactic nuclei](#) /or/ [microquasars](#). □

The bending of light by gravity ---can lead to>

the phenomenon of [gravitational lensing](#),

where multiple images of the same distant astronomical object

<are> visible /in/ the sky.□

General relativity also ---predicts> the existence of [gravitational waves](#),

which <have since been measured indirectly---\$;

a direct measurement <is> the aim of projects <such as> [LIGO](#). □

In addition,

general relativity

<is> the basis of current [cosmological](#) models of an expanding universe.□

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