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**What is a  
manifold?**

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Manifolds  
Calabi  
Yau Manifold 3D  
Stereogram of a  
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Hidden Manifolds And

Dimensions:

Exploring

Hyperspace

*Calabi-Yau Manifold*

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David Morrison:

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manifolds, Mirror

Symmetry, and F-

theory - Part I

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FilmCow Tutorials:

How to Draw a

Calabi-Yau Manifold



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~~Brief history of  
Calabi-Yau  
manifold related to  
string theory~~

Birational Calabi-  
Yau manifolds have  
the same small  
quantum products -

Mark McLean David  
Morrison:

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**Canonical  
coordinates for  
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Arithmetic of  
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Candelas FRS  
Equivariant  
geometry and  
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Shing-Tung Yau

\u0026 Steve Nadis

- String Theory and  
the Universes's

Hidden Dimensions

**A Grand Tour of  
the Universe**

**That Will Make**

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**Reality in a**

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**Completely And  
Different Way  
Diamox - Calabi-  
Yau Manifold**

Kyoto Univ.  
"Moduli of Calabi-  
Yau manifolds and  
mirror symmetry"  
Atsushi Kanazawa

**Calabi Yau  
Manifolds And  
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In algebraic  
geometry, a

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## Calabi Yau

Calabi-Yau manifolds, also known as a Calabi-Yau space, is a particular type of manifold which has properties, such as Ricci flatness, yielding applications in theoretical physics. Particularly in superstring theory, the extra

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Calabi Yau

dimensions of  
spacetime are  
sometimes  
conjectured to take  
the form of a  
6-dimensional  
Calabi-Yau  
manifold, which led  
to the idea of  
mirror symmetry.

Their name was  
coined by Candelas  
et al. (1985), after  
Eugenio Calabi

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(1954, 1957) who

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The second studies

Calabi-Yau

manifolds and

mirror symmetry,

using algebraic

geometry. The final

part describes

compact



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hyperkahler And

manifolds, which  
have a geometric  
structure very

closely related to

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manifolds. The

book is an

introduction to a  
very active field of  
research, on the  
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2003. Calabi-Yau

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by Geir Ellingsrud,

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Loren Olson, And  
Kristian Ranestad,  
and Stein A.  
Strømme. Springer.  
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## **Calabi-Yau manifolds and related**

*Page 19/42*

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**geometries - ORA  
- Oxford ...**

This book is an  
excellent

introduction to  
current research in  
the geometry of  
Calabi-Yau

manifolds, hyper-  
Kähler manifolds,  
exceptional  
holonomy and  
mirror symmetry.

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Authors: Mark

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geometries', by  
Mark Gross, Daniel  
Huybrechts and  
Dominic Joyce

There are many  
texts concerning  
the aspects of  
mirror symmetry  
having to do with  
variations of Hodge  
structure and  
counting curves,  
but only difficult  
research articles

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about the more recent geometry of mirror symmetry having to do with D-branes, homological mirror symmetry and torus fibrations.

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**Review of 'Calabi-Yau manifolds and related geometries'**

Moore (2007) has



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## Calabi Yau

shown that Calabi-Yau manifolds with complex structure located at an attractor fixed point on the moduli space exhibit interesting arithmetic properties. Calabi-Yau Manifolds in Physics. Calabi-Yau manifolds admit Kähler metrics with

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Calabi Yau

vanishing Ricci  
curvatures. They  
are solutions of the  
Einstein field  
equation with no  
matter. The theory  
of motions of loops  
inside a Calabi-Yau  
manifold provide a  
model of a  
conformal field  
theory.

**Calabi-Yau**

*Page 26/42*

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Calabi Yau

**manifold -**  
**Scholarpedia**

One benefit of the  
Calabi-Yau

manifolds was that  
the geometry of  
the folded  
dimensions gives  
rise to different  
types of observable  
particles in our  
universe. If the  
Calabi-Yau shape  
has three holes (or

# Online Library Calabi Yau

rather higher-dimensional  
analogues of holes),  
three families of  
particles will be  
predicted by the  
Standard Model of  
particle physics.

## **String Theory and Calabi-Yau Manifolds - dummies**

In particular, a

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## Calabi Yau

Calabi-Yau (CY) manifold is a (compact) Kähler manifold with vanishing Ricci curvature and so a vacuum solution of the

Einstein equations.

They have a prominent role in superstring theory and have been a central focus in

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Calabi Yau

both contemporary  
mathematics and  
mathematical  
physics.

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**Calabi-Yau  
Manifolds,  
Hermitian Yang-  
Mills Instantons  
and ...**

The second studies  
Calabi-Yau  
manifolds and  
mirror symmetry,

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Using algebraic  
geometry. The final  
part describes  
compact  
hyperkahler  
manifolds, which  
have a geometric  
structure very  
closely related to  
Calabi-Yau  
manifolds.

**Calabi-Yau  
Manifolds and**

*Page 31/42*

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## Calabi Yau

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### **Mark Gross ...**

The goal was to introduce the students to some of the basic geometry of Calabi-Yau manifolds and lead into mirror symmetry.

### **Calabi—Yau**

### **Manifolds and**



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**Mirror Symmetry**

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Softcover reprint of  
the original 1st ed.

2003 Edition by

Mark Gross

(Author), Daniel

Huybrechts

(Author), Dominic

Joyce (Author), 4.5

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out of 5 stars 2

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Geometries

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**Gross, Mark ...**

Calabi-Yau

manifold. The

coupling to the

standard E,-algebra-

valued flux-loop

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Calabi Yau

operator, as well as  
an analogous  
E,-invariant  
operator, is argued  
to be related to  
certain Yukawa  
couplings. A  
vacuum  
expectation value  
of the latter  
operator is shown  
to give masses to

**Flux-lines**

*Page 35/42*

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Calabi Yau

**through Calabi-  
Yau manifolds  
and related  
couplings**

As special classes of compact complex manifolds, Calabi-Yaus and Fanos admit some features that make them easier to study than other classes. Calabi-Yaus satisfy a

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particularly strong  
PDE that  $\text{Ric} = 0$ ,  
the Ricci tensor of  
a metric vanishes.

## Lectures At A **How are Calabi- Yau manifolds and Fano manifolds related ...**

Yau's solution of  
the Calabi  
conjecture [22]  
produces a unique

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## Calabi Yau

Calabi-Yau metric  
in each Kähler  
class on a compact  
Kähler manifold  
X with vanishing first  
Chern class. These  
metrics have local  
holonomy group  
contained in  $SU(n)$ .  
They are  
fundamental  
objects in  
geometry. Yau's  
original

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Calabi Yau

construction is  
based on solving a  
fully nonlinear  
complex

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**Collapsing of  
Calabi-Yau  
metrics and  
degeneration of**

...

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