

Total time:
2 - 3 hours



Difficulty Level:
Very challenging

Skill Points:

- Learning what the Fibonacci Sequence is
- Discovering how it created the Golden Spiral
- Using the Golden Spiral to judge your composition skills

EQUIPMENT:

- Any camera including mobile
- Any lens
- Editing software with layering capability

FIBONACCI & THE GOLDEN SPIRAL



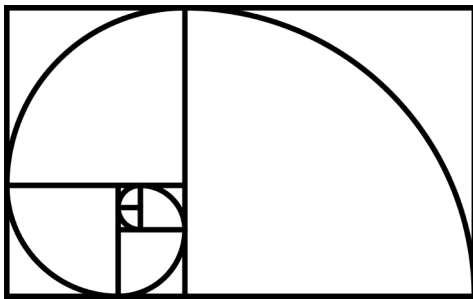
PHOTZY.COM

This Action Card is meant to give you an introduction into this very complex subject. In 1200 A.D. a Mathematician named Leonardo Fibonacci discovered a sequence of numbers, which is now known as, The Fibonacci Sequence. This sequence of numbers led to what is known as "The Golden Ratio", which is 1.618 to 1. As Fibonacci further explored his numbers, he developed a formula known as "The Golden Ratio", which further evolved into "The Golden Spiral". We will be concentrating on the Golden Spiral.

KEY LESSON: The reason that Fibonacci's sequence is known as The Golden Ratio is because it is found literally everywhere in the Universe. The Golden Spiral is found everything from art to architecture and in nature. We have included a Golden Spiral overlay that you can copy and paste into your own images to see how they fit into the spiral.

- Watch the Bonus video showing you how to do this. -

SAMPLE PHOTOGRAPHS



Golden Spiral: Fibonacci's sequence of numbers led to the Golden Ratio, which further developed into the Golden Spiral. The Golden Spiral has proven itself to be one of the most, if not the most, pleasing composition pattern to the human mind.

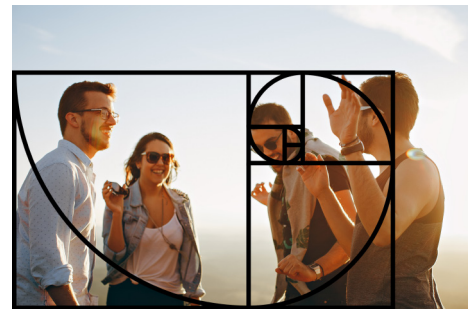
When you begin to look around, you will see the Golden Spiral is evident in everything around you: from products, to logos, to architecture, and even in nature. Some of the earliest artists in mankind's history began employing the Golden Spiral.



1- The Golden Spiral is found everywhere in nature. You may have heard this mathematical equation referred to under different names such as the Golden Mean, Phi, The Divine Proportion, or even the Rule of Thirds. The Rule of Thirds was originally devised as a result of Fibonacci's Sequence.



2- Use the included Golden Spiral .png file, and a layering program, to check your own photography. By copying the .png file, and pasting it into a new layer over the photo, we can see how we need to crop the image to "fit" the Golden Spiral.



ACTION ASSIGNMENT!

- 1-** Watch the Golden Spiral Bonus Video and download the .png file onto your computer
- 2-** Using a layer-based program place the Golden Spiral onto your images and judge your composition.

HOW DID YOU DO?

- Were you composing to the Golden Spiral ratio?
- If not, were you able to use the .png file as a guide to crop into a better composition?