

**ALMOST
100,000
PRIME
NUMBERS**

AL SWEIGART

Almost 100,000 Prime Numbers
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For L.

How do I love thee? Let me count the ways.

About the Author

Al Sweigart is a software developer, writer, and fellow of the Python Software Foundation. He is the author of several programming books for beginners, including:

Automate the Boring Stuff with Python
Automate the Boring Stuff with Python Workbook
The Big Book of Small Python Projects
The Recursive Book of Recursion
Python Programming Exercises, Gently Explained
Beyond the Basic Stuff with Python
Coding with Minecraft
Scratch 3 Programming Playground
Cracking Codes with Python
Invent Your Own Computer Games with Python
Making Games with Python and Pygame

All of his books are released for free under a Creative Commons license on his website, <https://inventwithpython.com>.



About the Book

This book contains almost 100,000 prime numbers, with a brief intermission. Prime numbers are whole number integers that are evenly divisible by only 1 and themselves. 6 is not a prime number, because it is divisible by 2 and 3, that is, 2 and 3 are factors of 6. 7 is prime because its only factors are 1 and 7.

There's a lot of interesting, practical, and mysterious facts about prime numbers. This book contains none of them. Consult your local public library.

Despite the comedic tone, the list of prime numbers (and digits of π) in this book is accurate and can be used as an actual reference.

#1: 2,3,5,7,11,13,17,19,23,29,31,37,41,43,47,53,59,61,67,71,73,79,83,89,97,101,103
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 #104: 569,571,577,587,593,599,601,607,613,617,619,631,641,643,647,653,659,661,673,
 #123: 677,683,691,701,709,719,727,733,739,743,751,757,761,769,773,787,797,809,811,
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 #223: 1409,1423,1427,1429,1433,1439,1447,1451,1453,1459,1471,1481,1483,1487,1489,
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~~ Intermission ~~

Ha Ha! Prime Number Jokes

Why was the mathematician happy on her 41st birthday?

Because she was entering the prime of her life!

[prod. note for editor: Does this joke work? I asked my wife and she said, “No, I get it. I just don't think it's very funny.” I don't know. Just have ChatGPT come up with soem jokes. and remember remove these production notes from final copy]

~~intermission~~

Did You Know?

- Even numbers are not prime (they are divisible by 2!) nor are numbers that end with 5 or 0 (they are divisible by 5!)
- If a number's digits add up to a multiple of 3, then the number is divisible by 3 and NOT PRIME. For example, 4640031 has digits $4 + 6 + 4 + 0 + 0 + 3 + 1 = 18$ and 18 is divisible by 3, so 4640031 is divisible by 3 and not prime!
- The ancient Greek mathematician Euclid proved that there are an infinite number of primes. You know what that means: Keep an eye out for Almost 100,000 Prime Numbers 2!

Additional Bonus Prime Numbers

1300421

1300423

Read This Book Online

<https://inventwithpython.com/almost>



[PN for ed: i have some concerns about how well translations of this book will sell overseas. do they use numbers in france? or do they have some kind of “metric” number system?]

Did you know?

- Numbers that are not prime are called *composite numbers*.
Here are some composite, non-prime numbers: 4, 6, 8, 10, 12

[PN for ed: i think there might be cultural issues in some asian countries with including 4? should we cut?]

Generate Prime Numbers with JavaScript Code

Put this code in a text file named *primes.html* and open it in a web browser to calculate as many primes as you like!

```
<!DOCTYPE html>
<html lang="en"><body><script>
(function () {
    var input = prompt("How many prime numbers do you want to
generate?");
    var n = parseInt(input, 10);
    if (!isFinite(n) || n <= 0) return;

    var primes = [];
    var candidate = 2;
    while (primes.length < n) {
        var isPrime = true;
        var limit = Math.floor(Math.sqrt(candidate));
        for (var i = 0; i < primes.length; i++) {
            var p = primes[i];
            if (p > limit) break;
            if (candidate % p === 0) { isPrime = false; break; }
        }
        if (isPrime) primes.push(candidate);
        candidate++;
    }

    document.body.textContent = primes.join(", ");
})();
</script></body></html>
```

Bonus: Almost 6,000 Digits of Pi

3.14159265358979323846264338327950288419716939937510582097494459230781640628620899862
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