

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

*In the name of God, Allah,
the most Merciful qualitatively,
the most Merciful quantitatively*

Quran and Primalogy

Prime Numbers are The Key

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Introduction

All praise is due to God, the Sustainer of all Seen and Unseen worlds, for revealing to us new knowledge from the first chapter of the holy book of Islam, The Quran called **The Opener** or **The Key** (and not The Opening as many Muslims think).

This short and oft-repeated chapter is so central to Muslims' prayers and Quran recitation that all such actions must begin by reciting it first. Here is the chapter in Arabic and English:

أعوذ بالله من الشيطان الرجيم بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

1. بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ
2. الْحَمْدُ لِلَّهِ رَبِّ الْعَالَمِينَ
3. الرَّحْمَنِ الرَّحِيمِ
4. مُلِكِ يَوْمِ الدِّينِ
5. إِيَّاكَ نَعْبُدُ وَإِيَّاكَ نَسْتَعِينُ
6. اهْدِنَا الصِّرَاطَ الْمُسْتَقِيمَ
7. صِرَاطَ الَّذِينَ أَنْعَمْتَ عَلَيْهِمْ غَيْرِ الْمَغْضُوبِ عَلَيْهِمْ وَلَا الضَّالِّينَ

1. *In the name of Allah, the Beneficent, the Merciful.*
2. *Praise be to Allah, Lord of the Worlds,*
3. *The Beneficent, the Merciful.*
4. *Master of the Day of Judgment,*
5. *You (alone) we worship; and from You (alone) we seek help.*
6. *Show us the straight path,*
7. *The path of those whom You have bestowed Your favours upon; Not (the path of) those who have earned Your anger; nor (the path of) those who went astray.*

The Container Hadith

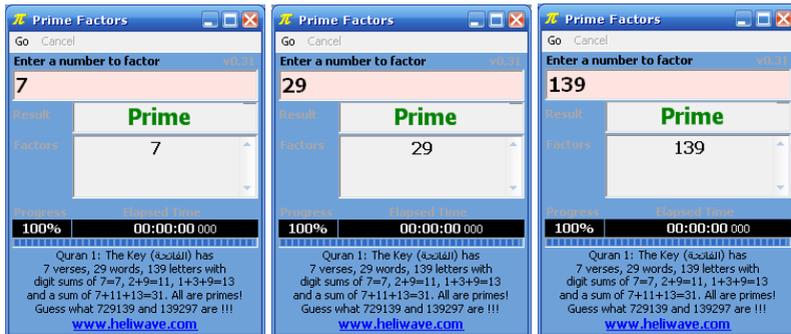
So pivotal chapter The Key is that the Prophet (peace be upon him and his family) said that the whole Quran is contained within this chapter and the whole chapter is contained within its first verse of "Bism Allah Ar-Rahmaan Ar-Raheem" and the whole verse is contained within its first letter "Baa"!

The Quran => The Key => Bism Allah ArRahmaan ArRaheem => Baa

Note that all Quran chapters start with this letter even the one without BismAllah (chapter #9 Al-Tawba). Also note the extra shadda on the BismAllah of chapters #95 (Al-Teen) and #97 (Al-Qadr) because the chapters before them end with "Baa" too.

The Key Structure

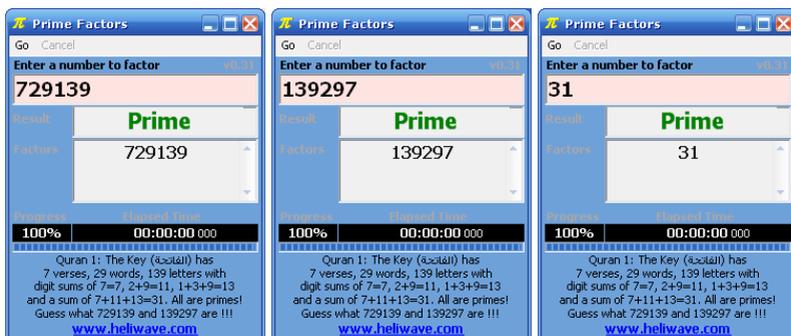
Glory to God for making chapter **The Opener** or **The Key** (الفتاحة) to consist of **7** verses, **29** words and **139** letters which are all prime numbers. That is, numbers divisible by themselves and **1** only.



Prime Factorization of 7, 29 and 139

Not only these numbers are prime but their digit sums are prime too ($7=7$, $2+9=11$, $1+3+9=13$) making them a special kind of prime numbers called "**Additive Prime Numbers**". What's more, even adding these digit sums ($7+11+13=31$) produces a prime too.

And to confirm the deliberate use of prime numbers, God has chosen the numbers of verses, words, and letters such that joining them left-to-right (**729139**) or right-to-left (**139297**) also produces prime numbers with prime digit sums ($1+3+9+2+9+7=31$). Once again, additive prime numbers!



Prime Factorization of 729139, 139297 and 31

Composite, Prime, Additive Prime, Pure Prime

And when we learn that prime numbers are used as keys for encoding and decoding secret messages then we realize why God has named the chapter, The Key or The Opener (not The Opening).

Prime Numbers and Cryptology

Prime numbers have baffled mathematicians over 2300 years of recorded history and currently The Clay Mathematics Institute, Cambridge, Massachusetts, USA is offering a \$1,000,000 prize to whoever can solve their distribution mystery amongst the natural numbers. See http://www.claymath.org/millennium/Riemann_Hypothesis.

Due to this mysterious distribution, there is no easy way to tell if a number is prime or where the next prime is. For this reason, prime numbers are used as keys in public key cryptography (the RSA) to encrypt messages into unreadable text without requiring to share a common key to lock and unlock messages. When you buy a product over the Internet, two large secret prime numbers are multiplied together to produce a huge composite number that is made public to enable your computer to wrap your credit card details with it before sending your details to the computer hosting the website you buying from, using the **https** protocol (**Secure Hypertext Transfer Protocol**). No one can see your financial details except those who know the private keys (the large primes) or can factor the huge composite public key into its large prime factors which may require many years making it impractical to hack. World governments use even larger prime numbers (1000s of digits long) to secure their communication channels which require billions of years to factor using super-computers because of the exponential factorization time.

In addition to prime numbers, the RSA algorithm uses modular arithmetic, please see www.heliwave.com/RSADemo.txt or download www.heliwave.com/RSADemo.zip.

The Readable Book

God has revealed the Quran in an Arabic tongue (not Arabic emlaaei text) and challenges man and jinn to produce a book like it, or ten chapters like it, or even single chapter like it (but not a single verse like as this is possible). And what's more, God tells the disbelievers that "*They will never succeed*".

This can only be a hint that although readable on the surface, the Quran is in fact encrypted at chapter level, and then each ten

chapters together, and finally all chapters together so as to produce a final encrypted text that is readable, thus the name **The Quran** which literally means **The Readable**.

God All-knowing named the first chapter The Key and based it on prime numbers and named the book The Readable despite being encrypted to show us that prime numbers hold the key to unlocking the hidden knowledge behind the readable outer text of the Quran.

Multi-layered Book

God Almighty further hints that the book is a multi-layer book as stated in Quran 18:109:

أَعُوذُ بِاللَّهِ مِنَ الشَّيْطَانِ الرَّجِيمِ بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

قُلْ لَوْ كَانَ الْبَحْرُ مِدَادًا لَكَلِمَاتِ رَبِّي لَنَفِدَ الْبَحْرُ قَبْلَ أَنْ تَنفَدَ كَلِمَاتُ رَبِّي
وَلَوْ جِئْنَا بِمِثْلِهِ مَدَدًا

Say: If the ocean were ink for the Words of my Lord, the ocean would run out, before the Words of my Lord run out, even if we double the ink supply.

This may mean, whereas chapter The Opener is to be used as a Key to unlock the first hidden layer beneath the outer layer, the newly unhidden layer will also contain its own Opener chapter to unlock the layer below it and so on until there are no more Opener chapters, and God knows best.

The Book Structure

God Almighty says in Quran 15:87:

أَعُوذُ بِاللَّهِ مِنَ الشَّيْطَانِ الرَّجِيمِ بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

وَلَقَدْ ءَاتَيْنَاكَ سَبْعًا مِّنَ الْمَثَانِي وَالْقُرْءَانَ الْعَظِيمِ

And We've given you seven of the doubles and the Grand Quran.

The Prophet (pbuh+f) explained the *seven of the doubles* as the seven verses of chapter The Opener or The Key that are recited twice in each prayer. This means, that God Almighty is saying that The **Book** has two parts; chapter The Opener as the **Key** and the remaining chapters as the **Message**. And indeed additive prime numbers confirms this assumption too:

Book = **Key** + **Message**
114 = **1** + **113** chapters
6236 = **7** + **6229** verses

where **113** and **6229** are prime numbers with primes digit sums (1+1+3=5, 6+2+2+9=19), making them additive prime numbers.



Prime Factorization of 1, 113, and 6229

God All-knowing even swears by the indivisible numbers (Al-Watr) in Quran 89:1-5

أعوذ بالله من الشيطان الرجيم بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

- | | |
|---|---|
| 1. By the dawn. | 1. وَالْفَجْرِ |
| 2. by the ten nights. | 2. وَاللَّيَالِ عَشْرِ |
| 3. by the co-dependent and by the indivisible . | 3. وَالشَّفْعِ وَالْوَتْرِ |
| 4. by the night as it eases away. | 4. وَاللَّيْلِ إِذَا يَسْرُ |
| 5. Isn't this a big oath for he who thinks? | 5. هَلْ فِي ذَلِكَ قَسَمٌ لِّذِي حَبْرِ |

where **co-dependent** may be a reference to Fermat's Last Theorem which states that there are no whole numbers a, b, and c that can satisfy the equation $a^n + b^n = c^n$ for $n > 2$, while **indivisible** is a clear reference to prime numbers, and God knows best.

Furthermore, chapter #18 **The Cave** hints at co-dependents for $n=2$ (or Pythagorean Triplets) in the story of the cave companions from verse 9 to 25 inclusive which may suggest that Pythagorean Triplets may hold the key to solving the mystery of prime numbers and God knows best. For further details, please see **Quran and 2012** at www.heliwave.com/Quran.and.2012.pdf and see also how the story consists of **313** words which hints that verse 9 to 25 inclusive are to

be recited if one wishes to be spared from the trials and tribulations of the Dajjal (LA), and God knows best.

Primology System

In order to understand the role of prime numbers in decrypting the Message of the Quran as pointed to in chapter The Key (The Opener), God Almighty has guided us to a new numerology system we call **Primology** that assigns **prime values** to the **29 Arabic letters** including standalone Hamza (ء) in the modern **Alphabetical order** as shown in the table below:

						1	ء
79	ك	47	ض	19	د	2	ا
83	ل	53	ط	23	ذ	3	ب
89	م	59	ظ	29	ر	5	ت
97	ن	61	ع	31	ز	7	ث
101	ه	67	غ	37	س	11	ج
103	و	71	ف	41	ش	13	ح
107	ي	73	ق	43	ص	17	خ

Primology: Islam's Numerology System

This system has been validated by applying it to the most important chapters of the Quran like chapter **Al-Fatiha** (The Opener) and chapter **Al-Ikhlaas** (Oneness of God), and even to the word "**Allah**" and consistently produced additive prime numbers.

God Almighty even helped us simplify complex Arabic letters into the simple 29 letters with examples in the most important verses in the Quran like verse 2:255 **Aya Al-Kursi** (The Throne), and the oft-repeated verse of chapter **Ar-Rahmaan** (The Merciful) with additive prime numbers as the criterion.

The following letter simplification rules are used to reduce the **37** letters used in the Quran to the **29** basic Arabic letters based on their shapes not sounds:

From	ء ؤ و ؤ ؤ د ي ي ا ا ا ا ا
To	ء ي و ه ي ي ا ا ا ا ا

Letter Simplification Rules

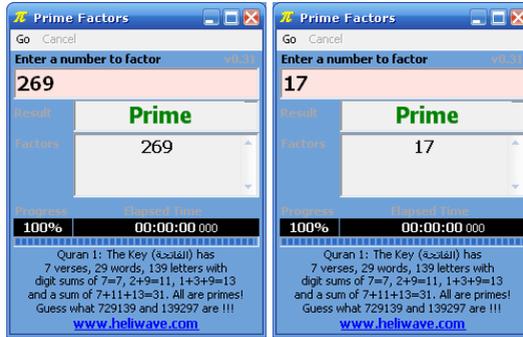
PV of the word "Allah"

Applying the newly discovered Primology system to the word "Allah" in Arabic (الله):

$$ه ل ا$$

$$2+83+83+101$$

produced a primology value of **269** which is prime with a prime digit sum ($2+6+9 = 17$), an additive prime number.



Primology Value of the word "Allah"

PV of The Key

Applying the Primology system to the **139** letters of chapter The Key or The Opener (الفاتحة):

(1) م ي ح ر ل ا ن م ح ر ل ا ه ل ل ا م س ب

$$3+37+89 \quad 2+83+83+101 \quad 2+83+29+13+89+97 \quad 2+83+29+13+107+89$$

(2) ن ي م ل ع ل ا ب ر ه ل ل د م ح ل ا

$$2+83+13+89+19 \quad 83+83+101 \quad 29+3 \quad 2+83+61+83+89+107+97$$

(3) م ي ح ر ل ا ن م ح ر ل ا

$$2+83+29+13+89+97 \quad 2+83+29+13+107+89$$

(4) ن ي د ل ا م و ي ك ل م

$$89+83+79 \quad 107+103+89 \quad 2+83+19+107+97$$

(5) ن ي ع ت س ن ك ا ي ا و د ب ع ن ك ا ي ا

$$2+107+2+79 \quad 97+61+3+19 \quad 103+2+107+2+79 \quad 97+37+5+61+107+97$$

(6) م ي ق ت س م ل ا ط ر ص ل ا ن د ه ا

$$2+101+19+97+2 \quad 2+83+43+29+53 \quad 2+83+89+37+5+73+107+89$$

(7) م ه ي ل ع ت م ع ن أ ن ي ذ ل ا ط ر ص

43+29+53 2+83+23+107+97 2+97+61+89+5 61+83+107+101+89

م ه ي ل ع ب و ض غ م ل ا ر ي غ

67+107+29 2+83+89+67+47+103+3 61+83+107+101+89

ن ي ل أ ض ل ا ل و

103+83+2 2+83+47+2+83+107+97

produced a primality value of **8317** which is prime with a prime digit sum too (8+3+1+7=**19**), an additive prime value.



Primality Value of chapter The Key

PV of Oneness of God

This new Primality system was further validated when applied to the letters of the next most important chapter in the Quran, #112, Oneness of God (الإخلاص), and amazingly produced two additive prime values, with and without the non-numbered verse of "Bism Allah Ar-Rahmaan Ar-Raheem" as follows:

م ي ح ر ل ا ن م ح ر ل ا ه ل ل ا م س ب

3+37+89 2+83+83+101 2+83+29+13+89+97 2+83+29+13+107+89

(1) د ح أ ه ل ل ا و ه ل ق

73+83 101+103 2+83+83+101 2+13+19

(2) د م ص ل ا ه ل ل ا

2+83+83+101 2+83+43+89+19

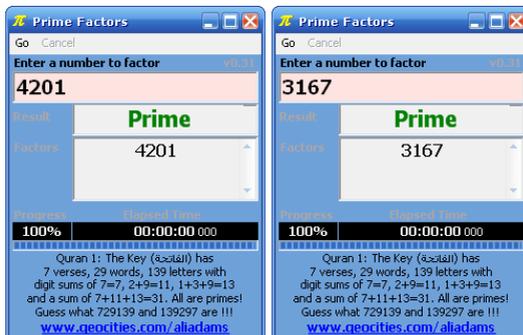
(3) د ل و ي م ل و د ل ي م ل

83+89 107+83+19 103+83+89 107+103+83+19

(4) دح أ اوفك هل نكي ملو

103+83+89 107+79+97 83+101 79+71+103+2 2+13+19

with BismAllah produced a prime primality value of **4201** with a prime digit sum ($4+2+0+1=7$), and without BismAllah produced a prime primality value of **3167** with a prime digit sum ($3+1+6+7=17$) too.



Primality Values of chapter Oneness of God *with* and *without* BismAllah

This clearly shows that the "Bism Allah Ar-Rahmaan Ar-Raheem" phrase is a **prefix** to this chapter and any chapter that has it unnumbered whereas this same phrase is an integral part of chapter The Key as it is numbered as verse 1 and thus has a full verse status and therefore must be recited loudly with the other six verses of the chapter, and Allah knows best.

NUMBER COLOR CODES

Composite is a number that is divisible by other numbers

Prime is a number that is indivisible by any other number except itself & 1

Additive Prime is a prime number with a prime digit sum

Pure Prime is an additive prime number with prime digits

The Unit is the number **1** which is the building block for all natural numbers

Primology is The Key not an Integrity Checksum

Furthermore, applying the Primology system to other chapters of the Quran did not yield additive prime numbers which implies that the purpose of Primology is to unlock hidden knowledge within The Message and not to prove the Quran's integrity as the case with other research efforts using the prime number 19 that is explicitly stated by God in Quran 74:30-31.

أَعُوذُ بِاللَّهِ مِنَ الشَّيْطَانِ الرَّجِيمِ بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

عَلَيْهَا تِسْعَةَ عَشَرَ

وَمَا جَعَلْنَا أَصْحَابَ النَّارِ إِلَّا مَلَائِكَةً ۖ وَمَا جَعَلْنَا عِدَّتَهُمْ إِلَّا فِتْنَةً لِلَّذِينَ كَفَرُوا لِيَسْتَيَقِنَ الَّذِينَ أُوتُوا الْكِتَابَ وَيَزْدَادَ الَّذِينَ ءَامَنُوا إِيمَانًا ۖ وَلَا يَرْتَابَ الَّذِينَ أُوتُوا الْكِتَابَ وَالْمُؤْمِنُونَ ۚ وَلِيَقُولَ الَّذِينَ فِي قُلُوبِهِم مَّرَضٌ وَالْكَافِرُونَ مَاذَا أَرَادَ اللَّهُ بِهَذَا مَثَلًا ۗ كَذَلِكَ يُضِلُّ اللَّهُ مَن يَشَاءُ وَيَهْدِي مَن يَشَاءُ ۗ وَمَا يَعْلَمُ جُنُودَ رَبِّكَ إِلَّا هُوَ ۗ وَمَا هِيَ إِلَّا ذِكْرٌ لِلْبَشَرِ

Over it are nineteen;

*And We have not made the wardens of the fire others than angels, and We have not made **their number** but:*

- 1. as a trial for those who disbelieve,*
- 2. so those who have been given the book may be certain,*
- 3. so those who believe may increase in faith,*
- 4. so those who have been given the book and the believers may not doubt, and*
- 5. so those in whose hearts is a disease and the unbelievers may say: What does Allah mean by this parable?*

Thus does Allah make err whom He pleases, and He guides whom He pleases, and none knows the hosts of your Lord but He Himself; and this is naught but a reminder to the mortals

Please read the above five reasons why God Almighty has chosen number **19** in the Quran as an integrity checksum and how the new Primology system which is derived from the Quran itself can increase the faith of the believers when *useful* hidden knowledge extracted with God permission and thus prove it is the **Word of Allah** and is man's manual for passing the test of this short physical life journey, may He guide those who believe in Him as the sole Creator and real-time Sustainer of all Seen and Unseen worlds to the Right Path and keep us on it till we meet Him soon in sha Allah.

QuranCode Software

QuranCode is a C# open-source application that is being developed to support this research effort for finding *valid methods* of using primology to letter-process the Quranic text (letter jumping by PV values, making sound waves with primology values of Quran words, drawing golden ratio pictures of Quran letter Primology values, etc.

The screenshot displays the QuranCode software interface. The main window shows a Quranic verse in Arabic: "لله لا اله الا هو الحي القيوم لا تاخذه سنة ولا نوم له ما في السموت وما في الارض من ذا الذي يشفع عنده الا باذنه يعلم ما بين ايديهم وما خلفهم ولا يحيطون بشيء من علمه الا بما شاء وسع كرسيه السموت والارض ولا يوده حفظهما وهو العلي العظيم". The interface includes a "Display" panel on the left with settings for "Simplified29", "Page 42", "Station 1", "Part 3", "Group 5", "Quarter 17", "Bowling 35", "Verse 262", "Word 5178", and "Letter 22033". A "Search" panel below it offers options to search by text or numbers. A "Prime Factorizer" panel shows a binary sequence "11111111111111111111". The "Statistics" panel on the right provides a summary: Verses: 1, Words: 50, Letters: 184. It also shows the "Primology" section with "Alphabet" selected, "Value: 11261", "Digit Sum: 11", and "Nth Prime: 1362". A table lists the frequency of letters: Order, Letter, Frequency. The table shows: 1: ا (35), 2: ل (25), 3: ه (15), 4: و (16), 5: ح (3), 6: ي (17), 7: ق (1), 8: م (17), 9: ت (3), 10: خ (2), 11: ذ (4), 12: س (5), 13: ن (8), 14: ف (5), 15: ر (3), 16: ض (2), 17: ش (3), 18: ع (7), 19: د (3). The "Options" panel at the bottom right has checkboxes for "Verse Numbers", "Wrap Text", "Verse Lines", and "1 is Prime". The status bar at the bottom shows "JumpByPiDigits" and "© 2011 www.heliwave.com".

QuranCode open-source project at <http://qurancode.com>
Quran text taken from <http://www.tanzil.net>

References

The Holy Quran: **610-632** [23 lunar years of revelations]

Recitation Method: **Hafs** bin Suleiman Al-Ghadhiri Al-Kufi ◀ Aasim bin abi Al-Nijood ◀ Abi Abdul-Rahmaan As-Selami ◀ Imam Ali bin abi Talib

Writing Method: **Uthmani** script.

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