

NOMBRES - Curiosités, théorie et usages

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Mille décimales de Pi

3,

14159265358979323846264338327950288419716939937510
58209749445923078164062862089986280348253421170679
82148086513282306647093844609550582231725359408128
48111745028410270193852110555964462294895493038196
44288109756659334461284756482337867831652712019091
45648566923460348610454326648213393607260249141273
72458700660631558817488152092096282925409171536436
78925903600113305305488204665213841469519415116094
33057270365759591953092186117381932611793105118548
07446237996274956735188575272489122793818301194912

98336733624406566430860213949463952247371907021798
60943702770539217176293176752384674818467669405132
00056812714526356082778577134275778960917363717872
14684409012249534301465495853710507922796892589235
42019956112129021960864034418159813629774771309960
51870721134999999837297804995105973173281609631859
50244594553469083026425223082533446850352619311881
71010003137838752886587533208381420617177669147303
59825349042875546873115956286388235378759375195778

18577805321712268066130019278766111959092164201989

Répétition des décimales de Pi

Exemple: la première répétition de deux chiffres se trouve à la 24^e décimale avec 33

3,141592653589793238462643₂₄3832795

3,

1, 4, 1, 5, 9, 2, 6, 5, 3, 5, 8, 9, 7, 9, 3, 2, 3, 8, 4, 6, 2, 6, 4, **3₂₄, 3**,
8, 3, 2, 7, 9, 5, 0, 2, **8₃₄, 8**, 4, 1, 9, 7, 1, 6, 9, 3, **9₄₄, 9**, 3, 7, 5, 1, 0,
5, 8, 2, 0, 9, 7, 4, 9, **4₅₉, 4**, 5, 9, 2, 3, 0, 7, 8, 1, 6, 4, 0, 6, 2, 8, 6,
2, 0, 8, **9₇₉, 9**, 8, 6, 2, 8, 0, 3, 4, 8, 2, 5, 3, 4, 2, **1₉₄, 1**, 7, 0, 6, 7, 9,

8, 2, 1, 4, 8, 0, 8, 6, 5, 1, 3, 2, 8, 2, 3, 0, **6₁₁₇, 6**, 4, 7, 0, 9, 3, 8, **4₁₂₅,**
4, 6, 0, 9, **5₁₃₀, 5**, 0, 5, 8, **2₁₃₅, 2**, 3, 1, 7, 2, 5, 3, 5, 9, 4, 0, 8, 1, 2, 8,
4, 8, **1₁₅₃, 1**, 1, 7, 4, 5, 0, 2, 8, 4, 1, 0, 2, 7, 0, 1, 9, 3, 8, 5, 2, **1₁₇₄, 1**,
0, **5₁₇₇, 5**, 5, 9, 6, **4₁₈₂, 4**, 6, **2₁₈₅, 2**, 9, 4, 8, 9, 5, 4, 9, 3, 0, 3, 8, 1, 9, 6,

4₂₀₁, 4, 2, **8₂₀₄, 8**, 1, 0, 9, 7, 5, **6₂₁₁, 6**, 5, 9, 3, 3, **4₂₁₅, 4**, 6, 1, 2, 8, 4, 7, 5,
6, 4, 8, 2, **3₂₃₀, 3**, 7, 8, 6, 7, 8, 3, 1, 6, 5, 2, 7, 1, 2, 0, 1, 9, 0, 9, 1,
4, 5, 6, 4, 8, 5, **6₂₅₇, 6**, 9, 2, 3, 4, 6, 0, 3, 4, 8, 6, 1, 0, 4, 5, 4, 3, 2,
6₂₇₆, 6, 4, 8, 2, 1, **3₂₈₂, 3**, 9, 3, 6, 0, 7, 2, 6, 0, 2, 4, 9, 1, 4, 1, 2, 7, 3,

7, 2, 4, 5, 8, 7, **0₃₀₇, 0**, **6₃₀₉, 6**, 0, 6, 3, 1, **5₃₁₅, 5**, **8₃₁₇, 8**, 1, 7, 4, **8₃₂₂, 8**, 1, 5,
2, 0, 9, 2, 0, 9, 6, 2, 8, 2, 9, 2, 5, 4, 0, 9, 1, 7, 1, 5, 3, 6, 4, 3, 6,
7, 8, 9, 2, 5, 9, 0, 3, 6, **0₃₆₀, 0**, **1₃₆₂, 1**, **3₃₆₄, 3**, 0, 5, 3, 0, 5, 4, **8₃₇₂, 8**, 2, 0,
4, **6₃₇₇, 6**, 5, 2, 1, 3, 8, 4, 1, 4, 6, 9, 5, 1, 9, 4, 1, 5, **1₃₉₅, 1**, 6, 0, 9, 4,

3₄₀₁, 3, 0, 5, 7, 2, 7, 0, 3, 6, 5, 7, 5, 9, 5, 9, 1, 9, 5, 3, 0, 9, 2, 1, 8,
6, **1₄₂₇, 1**, 7, 3, 8, 1, 9, 3, 2, 6, **1₄₃₇, 1**, 7, 9, 3, 1, 0, 5, **1₄₄₅, 1**, 8, 5, 4, 8,
0, 7, **4₄₅₃, 4**, 6, 2, 3, 7, **9₄₅₉, 9**, 6, 2, 7, 4, 9, 5, 6, 7, 3, 5, 1, **8₄₇₂, 8**, 5, 7,
5, 2, 7, 2, 4, 8, 9, 1, **2₄₈₄, 2**, 7, 9, 3, 8, 1, 8, 3, 0, **1₄₉₄, 1**, 9, 4, 9, 1, 2,

9, 8, **3₅₀₃, 3**, 6, 7, **3₅₀₇, 3**, 6, 2, **4₅₁₁, 4**, 0, 6, 5, **6₅₁₆, 6**, 4, 3, 0, 8, 6, 0, 2, 1,
3, 9, 4, 9, 4, 6, 3, 9, 5, **2₅₃₅, 2**, 4, 7, 3, 7, 1, 9, 0, 7, 0, 2, 1, 7, 9, 8,
6, 0, 9, 4, 3, 7, 0, 2, **7₅₅₉, 7**, 0, 5, 3, 9, 2, 1, 7, 1, 7, 6, 2, 9, 3, 1, 7,
6, 7, 5, 2, 3, 8, 4, 6, 7, 4, 8, 1, 8, 4, 6, 7, **6₅₉₂, 6**, 9, 4, 0, 5, 1, 3, 2,

0₆₀₁, 0, 0, 5, 6, 8, 1, 2, 7, 1, 4, 5, 2, 6, 3, 5, 6, 0, 8, 2, **7₆₂₁, 7**, 8, 5, **7₆₂₅,**
7, 1, 3, 4, 2, 7, 5, **7₆₃₃, 7**, 8, 9, 6, 0, 9, 1, 7, 3, 6, 3, 7, 1, 7, 8, 7, 2,
1, 4, 6, 8, **4₆₅₅, 4**, 0, 9, 0, 1, **2₆₆₁, 2**, 4, 9, 5, 3, 4, 3, 0, 1, 4, 6, 5, 4, 9,
5, 8, 5, 3, 7, 1, 0, 5, 0, 7, 9, **2₆₈₇, 2**, 7, 9, 6, 8, 9, 2, 5, 8, 9, 2, 3, 5,

4, 2, 0, 1, **9₇₀₅, 9**, 5, 6, **1₇₀₉, 1**, 2, 1, 2, 9, 0, 2, 1, 9, 6, 0, 8, 6, 4, 0, 3,
4₇₂₆, 4, 1, 8, 1, 5, 9, 8, 1, 3, 6, 2, 9, **7₇₃₉, 7**, 4, **7₇₄₂, 7**, 1, 3, 0, **9₇₄₇, 9**, 6, 0,
5, 1, 8, 7, 0, 7, 2, **1₇₅₈, 1**, 3, 4, **9₇₆₂, 9**, **9, 9, 9**, 8, 3, 7, 2, 9, 7, 8, 0,
4, **9₇₇₇, 9**, 5, 1, 0, 5, 9, 7, 3, 1, 7, 3, 2, 8, 1, 6, 0, 9, 6, 3, 1, 8, 5, 9,

5, 0, 2, **4₈₀₄, 4**, 5, 9, 4, **5₈₀₉, 5**, 3, 4, 6, 9, 0, 8, 3, 0, 2, 6, 4, 2, 5, **2₈₂₄, 2**,

3, 0, 8, 2, 5, **3**₈₃₁, **3**, **4**₈₃₃, **4**, 6, 8, 5, 0, 3, 5, 2, 6, 1, 9, 3, **1**₈₄₆, **1**, **8**₈₄₈, **8**, 1,
7, 1, 0, 1, **0**₈₅₅, **0**, **0**, 3, 1, 3, 7, 8, 3, 8, 7, 5, 2, **8**₈₆₈, **8**, 6, 5, 8, 7, 5, **3**₈₇₅,
3, 2, 0, 8, 3, 8, 1, 4, 2, 0, 6, 1, 7, 1, **7**₈₉₀, **7**, **6**₈₉₂, **6**, 9, 1, 4, 7, 3, 0, 3,

5, 9, 8, 2, 5, 3, 4, 9, 0, 4, 2, 8, 7, **5**₉₁₄, **5**, 4, 6, 8, 7, 3, **1**₉₂₁, **1**, 5, 9, 5,
6, 2, 8, 6, 3, **8**₉₃₁, **8**, 2, 3, 5, 3, 7, 8, 7, 5, 9, 3, 7, 5, 1, 9, 5, **7**₉₄₈, **7**, 8,
1, 8, 5, **7**₉₅₄, **7**, 8, 0, 5, 3, 2, 1, 7, 1, **2**₉₆₄, **2**, 6, 8, 0, **6**₉₆₉, **6**, 1, 3, **0**₉₇₃, **0**, 1,
9, 2, 7, 8, 7, **6**₉₈₁, **6**, **1**₉₈₃, **1**, **1**, 9, 5, 9, 0, 9, 2, 1, 6, 4, 2, 0, 1, 9, 8, 9, ...

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3-Répétition des décimales de Pi

Exemple: la première répétition de trois chiffres se trouve à la 153^e décimale avec 111

[Rang de la décimale, chiffre de la décimale]

[153, 1], [177, 5], [601, 0], [762, 9], [763, 9], [764, 9], [765, 9], [855, 0], [983, 1],
[1232, 5], [1450, 5], [1589, 7], [1590, 7], [1598, 0], [1698, 3], [1735, 2], [1889, 2],
[2278, 2], [2359, 5], [2376, 2], [2440, 6], [2674, 5], [2707, 4], [2928, 4], [2949, 9],
[3151, 6], [3434, 2], [3476, 4], [3503, 1], [3809, 4], [3866, 4], [3992, 1], [4000, 6],
[4175, 4], [4255, 0], [4435, 6], [4508, 1], [4575, 7], [4751, 8], [4752, 8], [4793, 0],
[4902, 2], [4903, 2], [4923, 4], [4928, 3], [4985, 8], [5241, 7], [5242, 7], [5290, 4],
[5322, 7], [5323, 7], [5355, 7], [5403, 6], [5450, 7], [5675, 4], [5863, 7], [5864, 7],
[5871, 8], [6070, 8], [6116, 1], [6327, 4], [6346, 4], [6803, 1], [6840, 6], [6850, 8],
[6917, 3], [6963, 1], [7245, 5], [7317, 5], [7651, 3], [7681, 5], [7759, 9], [7832, 0],
[7911, 2], [7964, 2], [7965, 2], [8366, 1], [8413, 3], [8527, 9], [8736, 3], [8828, 3],
[8879, 0], [9203, 2], [9293, 2], [9334, 2], [9338, 8], [9384, 4], [9445, 4], [9962, 9], ...

4-Répétition des décimales de Pi

[762, 9], [763, 9], [764, 9], [1589, 7], [4751, 8], [4902, 2], [5241, 7], [5322, 7],
[5863, 7], [7964, 2], [12486, 2], [12700, 1], [13390, 0], [16732, 1], [17534, 0],
[17535, 0], [17988, 9], [19437, 9], [19446, 9], [19447, 9], [21880, 6], [22753, 9],
[24466, 5], [24467, 5], [28467, 3], [28468, 3], [29504, 7], [29868, 6], [30796, 8],
[31900, 9], [32427, 6], [32478, 7], [32788, 1], [32789, 1], [33107, 7], [33172, 5],
[35457, 7], [37230, 1], [37322, 0], [39861, 5], [39862, 5], [40792, 7], [42095, 9],
[43154, 1], [43405, 2], [43523, 6], [46512, 5], [48439, 6], [48440, 6], [48665, 1],
[49055, 0], ...

5-Répétition des décimales de Pi

[762, 9], [763, 9], [17534, 0], [19446, 9], [24466, 5], [28467, 3], [32788, 1], [39861,
5], [48439, 6], [56988, 9], [65260, 2], [89085, 3]

6-Répétition des décimales de Pi

La première occurrence de six répétitions intervient à la position 762, dite **point de Feynman, avec 999 999**. >>>

[762, 9], [193034, 9], [222299, 8], [244453, 5], [252499, 6], [253209, 5], [255945,
1], [399579, 7], [419997, 5], [452071, 7], [710100, 3], [710101, 3], [828499, 4],
[963024, 2]

7-Répétition des décimales de Pi

[710100, 3] seul jusqu'à 1 000 000.

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Somme de deux décimales successives – 100 décimales

[4, 5, 5, 6, 14, 11, 8, 11, 8, 8, 13, 17, 16, 16, 12, 5, 5, 11, 12, 10, 8, 8, 10, 7, 6, 11, 11, 5, 9, 16, 14, 5, 2, 10, 16, 12, 5, 10, 16, 8, 7, 15, 12, 12, 18, 12, 10, 12, 6, 1, 5, 13, 10, 2, 9, 16, 11, 13, 13, 8, 9, 14, 11, 5, 3, 7, 15, 9, 7, 10, 4, 6, 8, 10, 14, 8, 2, 8, 17, 18, 17, 14, 8, 10, 8, 3, 7, 12, 10, 7, 8, 7, 6, 3, 2, 8, 7, 6, 13]

Cumul des sommes – 110 décimales pour dépasser la somme de 1000

[4, 9, 14, 20, 34, 45, 53, 64, 72, 80, 93, 110, 126, 142, 154, 159, 164, 175, 187, 197, 205, 213, 223, 230, 236, 247, 258, 263, 272, 288, 302, 307, 309, 319, 335, 347, 352, 362, 378, 386, 393, 408, 420, 432, 450, 462, 472, 484, 490, 491, 496, 509, 519, 521, 530, 546, 557, 570, 583, 591, 600, 614, 625, 630, 633, 640, 655, 664, 671, 681, 685, 691, 699, 709, 723, 731, 733, 741, 758, 776, 793, 807, 815, 825, 833, 836, 843, 855, 865, 872, 880, 887, 893, 896, 898, 906, 913, 919, 932, 948, 965, 975, 978, 983, 995, 1003, 1011, 1025, 1036]

Différence entre décimales (valeurs absolues) – 100 décimales

Sorte de dérivée des chiffres de Pi.

[2, 3, 3, 4, 4, 7, 4, 1, 2, 2, 3, 1, 2, 2, 6, 1, 1, 5, 4, 2, 4, 4, 2, 1, 0, 5, 5, 1, 5, 2, 4, 5, 2, 6, 0, 4, 3, 8, 2, 6, 5, 3, 6, 6, 0, 6, 4, 2, 4, 1, 5, 3, 6, 2, 9, 2, 3, 5, 5, 0, 1, 4, 7, 1, 3, 7, 1, 7, 5, 2, 4, 6, 4, 6, 2, 4, 2, 8, 1, 0, 1, 2, 4, 6, 8, 3, 1, 4, 6, 3, 2, 1, 2, 1, 0, 6, 7, 6, 1]

Produit de deux décimales successives – 100 décimales

[3, 4, 4, 5, 45, 18, 12, 30, 15, 15, 40, 72, 63, 63, 27, 6, 6, 24, 32, 24, 12, 12, 24, 12, 9, 24, 24, 6, 14, 63, 45, 0, 0, 16, 64, 32, 4, 9, 63, 7, 6, 54, 27, 27, 81, 27, 21, 35, 5, 0, 0, 40, 16, 0, 0, 63, 28, 36, 36, 16, 20, 45, 18, 6, 0, 0, 56, 8, 6, 24, 0, 0, 12, 16, 48, 12, 0, 0, 72, 81, 72, 48, 12, 16, 0, 0, 12, 32, 16, 10, 15, 12, 8, 2, 1, 7, 0, 0, 42]

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Deux chiffres successifs – 100 décimales

[rang, premier chiffre, second chiffre]

[7, 6, 5], [11, 8, 9], [15, 3, 2], [16, 2, 3], [23, 4, 3], [27, 3, 2], [49, 1, 0], [60, 4, 5], [63, 2, 3], [66, 7, 8], [78, 8, 9], [80, 9, 8], [86, 3, 4], [91, 3, 4], [93, 2, 1], [98, 6, 7]

Trois chiffres successifs – 1000 décimales

[234, 6, 7, 8], [251, 4, 5, 6], [260, 2, 3, 4], [272, 5, 4, 3], [273, 4, 3, 2], [350, 6, 7, 8], [351, 7, 8, 9], [466, 5, 6, 7], [634, 7, 8, 9], [659, 0, 1, 2], [672, 6, 5, 4], [959, 3, 2, 1], [979, 8, 7, 6]

Quatre chiffres successifs – 10 000 décimales

[272, 5, 4, 3, 2], [350, 6, 7, 8, 9], [2486, 3, 4, 5, 6], [2785, 7, 6, 5, 4], [4086, 9, 8, 7, 6], [5063, 6, 5, 4, 3], [5294, 3, 4, 5, 6], [5295, 4, 5, 6, 7], [9218, 6, 5, 4, 3], [9771, 6, 7, 8, 9]

Cinq chiffres successifs – 100 000 décimales

[5294, 3, 4, 5, 6, 7], [10816, 5, 6, 7, 8, 9], [30089, 3, 4, 5, 6, 7], [49702, 1, 2, 3, 4, 5], [64224, 5, 4, 3, 2, 1], [68754, 5, 6, 7, 8, 9], [73160, 5, 4, 3, 2, 1], [73597, 4, 3, 2, 1, 0], [80982, 2, 3, 4, 5, 6], [88094, 3, 4, 5, 6, 7]

Six et plus chiffres successifs :

123456 est en 2 458 885^e position

1234567 est en 9 470 344^e position

12345678 est en 186 557 266^e position

123456789 n'apparait pas dans Pi avant la 200 000 000^e décimale

Pour une configuration de votre choix,

consulter le site [Pi-Search](#) de David G. Andersen



Cette page: <http://villemin.gerard.free.fr/Wwwqymm/Geometri/PiDecim.pdf>

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