**Number Systems Chart:**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Decimal** | **Binary** | **Hexadecimal** | **Octal** | **Decimal** | **Binary** | **Hexadecimal** | **Octal** | **Decimal** | **Binary** | **Hexadecimal** | **Octal** |
| **0** | 0000 | 0 | 0 | **30** | 11110 | 1E | 36 | **60** | 111100 | 3C | 74 |
| **1** | 0001 | 1 | 1 | **31** | 11111 | 1F | 37 | **61** | 111101 | 3D | 75 |
| **2** | 0010 | 2 | 2 | **32** | 100000 | 20 | 40 | **62** | 111110 | 3E | 76 |
| **3** | 0011 | 3 | 3 | **33** | 100001 | 21 | 41 | **63** | 111111 | 3F | 77 |
| **4** | 0100 | 4 | 4 | **34** | 100010 | 22 | 42 | **64** | 1000000 | 40 | 100 |
| **5** | 0101 | 5 | 5 | **35** | 100011 | 23 | 43 | **65** | 1000001 | 41 | 101 |
| **6** | 0110 | 6 | 6 | **36** | 100100 | 24 | 44 | **66** | 1000010 | 42 | 102 |
| **7** | 0111 | 7 | 7 | **37** | 100101 | 25 | 45 | **67** | 1000011 | 43 | 103 |
| **8** | 1000 | 8 | 10 | **38** | 100110 | 26 | 46 | **68** | 1000100 | 44 | 104 |
| **9** | 1001 | 9 | 11 | **39** | 100111 | 27 | 47 | **69** | 1000101 | 45 | 105 |
| **10** | 1010 | A | 12 | **40** | 101000 | 28 | 50 | **70** | 1000110 | 46 | 106 |
| **11** | 1011 | B | 13 | **41** | 101001 | 29 | 51 | **71** | 1000111 | 47 | 107 |
| **12** | 1100 | C | 14 | **42** | 101010 | 2A | 52 | **72** | 1001000 | 48 | 110 |
| **13** | 1101 | D | 15 | **43** | 101011 | 2B | 53 | **73** | 1001001 | 49 | 111 |
| **14** | 1110 | E | 16 | **44** | 101100 | 2C | 54 | **74** | 1001010 | 4A | 112 |
| **15** | 1111 | F | 17 | **45** | 101101 | 2D | 55 | **75** | 1001011 | 4B | 113 |
| **16** | 10000 | 10 | 20 | **46** | 101110 | 2E | 56 | **76** | 1001100 | 4C | 114 |
| **17** | 10001 | 11 | 21 | **47** | 101111 | 2F | 57 | **77** | 1001101 | 4D | 115 |
| **18** | 10010 | 12 | 22 | **48** | 110000 | 30 | 60 | **78** | 1001110 | 4E | 116 |
| **19** | 10011 | 13 | 23 | **49** | 110001 | 31 | 61 | **79** | 1001111 | 4F | 117 |
| **20** | 10100 | 14 | 24 | **50** | 110010 | 32 | 62 | **80** | 1010000 | 50 | 120 |
| **21** | 10101 | 15 | 25 | **51** | 110011 | 33 | 63 | **81** | 1010001 | 51 | 121 |
| **22** | 10110 | 16 | 26 | **52** | 110100 | 34 | 64 | **82** | 1010010 | 52 | 122 |
| **23** | 10111 | 17 | 27 | **53** | 110101 | 35 | 65 | **83** | 1010011 | 53 | 123 |
| **24** | 11000 | 18 | 30 | **54** | 110110 | 36 | 66 | **84** | 1010100 | 54 | 124 |
| **25** | 11001 | 19 | 31 | **55** | 110111 | 37 | 67 | **85** | 1010101 | 55 | 125 |
| **26** | 11010 | 1A | 32 | **56** | 111000 | 38 | 70 | **86** | 1010110 | 56 | 126 |
| **27** | 11011 | 1B | 33 | **57** | 111001 | 39 | 71 | **87** | 1010111 | 57 | 127 |
| **28** | 11100 | 1C | 34 | **58** | 111010 | 3A | 72 | **88** | 1011000 | 58 | 130 |
| **29** | 11101 | 1D | 35 | **59** | 111011 | 3B | 73 | **89** | 1011001 | 59 | 131 |
| **Decimal** | **Binary** | **Hexadecimal** | **Octal** | **Decimal** | **Binary** | **Hexadecimal** | **Octal** | **Decimal** | **Binary** | **Hexadecimal** | **Octal** |
| **90** | 1011010 | 5A | 132 | **120** | 1111000 | 78 | 170 | **150** | 10010110 | 96 | 226 |
| **91** | 1011011 | 5B | 133 | **121** | 1111001 | 79 | 171 | **151** | 10010111 | 97 | 227 |
| **92** | 1011100 | 5C | 134 | **122** | 1111010 | 7A | 172 | **152** | 10011000 | 98 | 230 |
| **93** | 1011101 | 5D | 135 | **123** | 1111011 | 7B | 173 | **153** | 10011001 | 99 | 231 |
| **94** | 1011110 | 5E | 136 | **124** | 1111100 | 7C | 174 | **154** | 10011010 | 9A | 232 |
| **95** | 1011111 | 5F | 137 | **125** | 1111101 | 7D | 175 | **155** | 10011011 | 9B | 233 |
| **96** | 1100000 | 60 | 140 | **126** | 1111110 | 7E | 176 | **156** | 10011100 | 9C | 234 |
| **97** | 1100001 | 61 | 141 | **127** | 1111111 | 7F | 177 | **157** | 10011101 | 9D | 235 |
| **98** | 1100010 | 62 | 142 | **128** | 10000000 | 80 | 200 | **158** | 10011110 | 9E | 236 |
| **99** | 1100011 | 63 | 143 | **129** | 10000001 | 81 | 201 | **159** | 10011111 | 9F | 237 |
| **100** | 1100100 | 64 | 144 | **130** | 10000010 | 82 | 202 | **160** | 10100000 | A0 | 240 |
| **101** | 1100101 | 65 | 145 | **131** | 10000011 | 83 | 203 | **161** | 10100001 | A1 | 241 |
| **102** | 1100110 | 66 | 146 | **132** | 10000100 | 84 | 204 | **162** | 10100010 | A2 | 242 |
| **103** | 1100111 | 67 | 147 | **133** | 10000101 | 85 | 205 | **163** | 10100011 | A3 | 243 |
| **104** | 1101000 | 68 | 150 | **134** | 10000110 | 86 | 206 | **164** | 10100100 | A4 | 244 |
| **105** | 1101001 | 69 | 151 | **135** | 10000111 | 87 | 207 | **165** | 10100101 | A5 | 245 |
| **106** | 1101010 | 6A | 152 | **136** | 10001000 | 88 | 210 | **166** | 10100110 | A6 | 246 |
| **107** | 1101011 | 6B | 153 | **137** | 10001001 | 89 | 211 | **167** | 10100111 | A7 | 247 |
| **108** | 1101100 | 6C | 154 | **138** | 10001010 | 8A | 212 | **168** | 10101000 | A8 | 250 |
| **109** | 1101101 | 6D | 155 | **139** | 10001011 | 8B | 213 | **169** | 10101001 | A9 | 251 |
| **110** | 1101110 | 6E | 156 | **140** | 10001100 | 8C | 214 | **170** | 10101010 | AA | 252 |
| **111** | 1101111 | 6F | 157 | **141** | 10001101 | 8D | 215 | **171** | 10101011 | AB | 253 |
| **112** | 1110000 | 70 | 160 | **142** | 10001110 | 8E | 216 | **172** | 10101100 | AC | 254 |
| **113** | 1110001 | 71 | 161 | **143** | 10001111 | 8F | 217 | **173** | 10101101 | AD | 255 |
| **114** | 1110010 | 72 | 162 | **144** | 10010000 | 90 | 220 | **174** | 10101110 | AE | 256 |
| **115** | 1110011 | 73 | 163 | **145** | 10010001 | 91 | 221 | **175** | 10101111 | AF | 257 |
| **116** | 1110100 | 74 | 164 | **146** | 10010010 | 92 | 222 | **176** | 10110000 | B0 | 260 |
| **117** | 1110101 | 75 | 165 | **147** | 10010011 | 93 | 223 | **177** | 10110001 | B1 | 261 |
| **118** | 1110110 | 76 | 166 | **148** | 10010100 | 94 | 224 | **178** | 10110010 | B2 | 262 |
| **119** | 1110111 | 77 | 167 | **149** | 10010101 | 95 | 225 | **179** | 10110011 | B3 | 263 |