

# List of Illegal Mnemonics

```
;CODES 00-0F
```

```
OPC6502_BRK = $00
OPC6502_ORA_XIND = $01
OPC6502_HLT = $02
OPC6502_KIL = $02
OPC6502_JAM = $02
OPC6502_SLO_XIND = $03
OPC6502_AS0_XIND = $03
OPC6502_NOP_ZP = $04
OPC6502_ORA_ZP = $05
OPC6502_AS_L_ZP = $06
OPC6502_SLO_ZP = $07
OPC6502_AS0_ZP = $07
OPC6502_PHP = $08
OPC6502_ORA_IMM = $09
OPC6502_AS_L = $0A
OPC6502_ANC_IMM = $0B
OPC6502_AAC_IMM = $0B
OPC6502_NOP_ABS = $0C
OPC6502_ORA_ABS = $0D
OPC6502_AS_L_ABS = $0E
OPC6502_SLO_ABS = $0F
OPC6502_AS0_ABS = $0F
```

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;CODES 10-1F
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```
OPC6502_BPL = $10
OPC6502_ORA_INDY = $11
OPC6502_HLT = $12
OPC6502_KIL = $12
OPC6502_JAM = $12
OPC6502_SLO_INDY = $13
OPC6502_AS0_INDY = $13
OPC6502_NOP_ZPX = $14
OPC6502_ORA_ZPX = $15
OPC6502_AS_L_ZPX = $16
OPC6502_SLO_ZPX = $17
OPC6502_AS0_ZPX = $17
OPC6502_CLC = $18
OPC6502_ORA_ABSY = $19
OPC6502_NOP = $1A
OPC6502_SLO_ABSY = $1B
OPC6502_AS0_ABSY = $1B
OPC6502_NOP_ABSX = $1C
OPC6502_ORA_ABSX = $1D
OPC6502_AS_L_ABSX = $1E
OPC6502_SLO_ABSX = $1F
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```
OPC6502_ASO_ABSX = $1F

;CODES 20-2F
OPC6502_JSR_ABS = $20
OPC6502_AND_XIND = $21
OPC6502_HLT = $22
OPC6502_KIL = $22
OPC6502_JAM = $22
OPC6502_RLA_XIND = $23
OPC6502_BIT_ZP = $24
OPC6502_AND_ZP = $25
OPC6502_ROL_ZP = $26
OPC6502_RLA_ZP = $27
OPC6502_PLP = $28
OPC6502_AND_IMM = $29
OPC6502_ROL = $2A
OPC6502_ANC_IMM = $2B
OPC6502_AAC_IMM = $2B
OPC6502_BIT_ABS = $2C
OPC6502_AND_ABS = $2D
OPC6502_ROL_ABS = $2E
OPC6502_RLA_ABS = $2F
```

```
;CODES 30-3F
OPC6502_BMI = $30
OPC6502_AND_INDY = $31
OPC6502_HLT = $32
OPC6502_KIL = $32
OPC6502_JAM = $32
OPC6502_RLA_INDY = $33
OPC6502_NOP_ZPX = $34
OPC6502_AND_ZPX = $35
OPC6502_ROL_ZPX = $36
OPC6502_RLA_ZPX = $37
OPC6502_SEC = $38
OPC6502_AND_ABSY = $39
OPC6502_NOP = $3A
OPC6502_RLA_ABSY = $3B
OPC6502_NOP_ABSX = $3C
OPC6502_AND_ABSX = $3D
OPC6502_ROL_ABSX = $3E
OPC6502_RLA_ABSX = $3F
```

```
;CODES 40-4F
OPC6502_RTI = $40
OPC6502_EOR_XIND = $41
OPC6502_HLT = $42
OPC6502_KIL = $42
OPC6502_JAM = $42
OPC6502_SRE_XIND = $43
OPC6502_LSE_XIND = $43
```

```
OPC6502_NOP_ZP = $44
OPC6502_EOR_ZP = $45
OPC6502_LSR_ZP = $46
OPC6502_SRE_ZP = $47
OPC6502_LSE_ZP = $47
OPC6502_PHA = $48
OPC6502_EOR_IMM = $49
OPC6502_LSR = $4A
OPC6502_ALR_IMM = $4B
OPC6502_ASR_IMM = $4B
OPC6502_JMP_ABS = $4C
OPC6502_EOR_ABS = $4D
OPC6502_LSR_ABS = $4E
OPC6502_SRE_ABS = $4F
OPC6502_LSE_ABS = $4F
```

```
;CODES 50-5F
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```
OPC6502_BVC = $50
OPC6502_EOR_INDY = $51
OPC6502_HLT = $52
OPC6502_KIL = $52
OPC6502_JAM = $52
OPC6502_SRE_INDY = $53
OPC6502_LSE_INDY = $53
OPC6502_NOP_ZPX = $54
OPC6502_EOR_ZPX = $55
OPC6502_LSR_ZPX = $56
OPC6502_SRE_ZPX = $57
OPC6502_LSE_ZPX = $57
OPC6502_CLI = $58
OPC6502_EOR_ABSY = $59
OPC6502_NOP = $5A
OPC6502_SRE_ABSY = $5B
OPC6502_LSE_ABSY = $5B
OPC6502_NOP_ABSX = $5C
OPC6502_EOR_ABSX = $5D
OPC6502_LSR_ABSX = $5E
OPC6502_SRE_ABSX = $5F
OPC6502_LSE_ABSX = $5F
```

```
;CODES 60-6F
```

```
OPC6502_RTS = $60
OPC6502_ADC_XIND = $61
OPC6502_HLT = $62
OPC6502_KIL = $62
OPC6502_JAM = $62
OPC6502_RRA_XIND = $63
OPC6502_NOP_ZP = $64
OPC6502_ADC_ZP = $65
OPC6502_ROR_ZP = $66
OPC6502_RRA_ZP = $67
```

```
OPC6502_PLA = $68
OPC6502_ADC_IMM = $69
OPC6502_ROR = $6A
OPC6502_ARR_IMM = $6B
OPC6502_JMP_IND = $6C
OPC6502_ADC_ABS = $6D
OPC6502_ROR_ABS = $6E
OPC6502_RRA_ABS = $6F

; CODES 70-7F
OPC6502_BVS = $70
OPC6502_ADC_INDY = $71
OPC6502_HLT = $72
OPC6502_KIL = $72
OPC6502_JAM = $72
OPC6502_RRA_INDY = $73
OPC6502_NOP_ZPX = $74
OPC6502_ADC_ZPX = $75
OPC6502_ROR_ZPX = $76
OPC6502_RRA_ZPX = $77
OPC6502_SEI = $78
OPC6502_ADC_ABSY = $79
OPC6502_NOP = $7A
OPC6502_RRA_ABSY = $7B
OPC6502_NOP_ABSX = $7C
OPC6502_ADC_ABSX = $7D
OPC6502_ROR_ABSX = $7E
OPC6502_RRA_ABSX = $7F

; CODES 80-8F
OPC6502_NOP_IMM = $80
OPC6502_STA_XIND = $81
OPC6502_NOP_IMM = $82
OPC6502_SAX_XIND = $83
OPC6502_STY_ZP = $84
OPC6502_STA_ZP = $85
OPC6502_STX_ZP = $86
OPC6502_SAX_ZP = $87
OPC6502_DEY = $88
OPC6502_NOP_IMM = $89
OPC6502_TXA = $8A
OPC6502_XAA_IMM = $8B
OPC6502_ANE_IMM = $8B
OPC6502_STY_ABS = $8C
OPC6502_STA_ABS = $8D
OPC6502_STX_ABS = $8E
OPC6502_SAX_ABS = $8F

; CODES 90-9F
OPC6502_BCC = $90
OPC6502_STA_INDY = $91
```

OPC6502\_HLT = \$92  
OPC6502\_KIL = \$92  
OPC6502\_JAM = \$92  
OPC6502\_AHX\_INDY = \$93  
OPC6502\_SAH\_INDY = \$93  
OPC6502\_AXA\_INDY = \$93  
OPC6502\_STY\_ZPX= \$94  
OPC6502\_STA\_ZPX = \$95  
OPC6502\_STX\_ZPY = \$96  
OPC6502\_SAX\_ZPY = \$97  
OPC6502\_TYA = \$98  
OPC6502\_STA\_ABSY = \$99  
OPC6502\_TXS = \$9A  
OPC6502\_TAS\_ABSY = \$9B  
OPC6502\_XAS\_ABSY = \$9B  
OPC6502\_SHS\_ABSY = \$9B  
OPC6502\_SHY\_ABSX = \$9C  
OPC6502\_SYA\_ABSX = \$9C  
OPC6502\_STA\_ABSX = \$9D  
OPC6502\_SHX\_ABSY = \$9E  
OPC6502\_SXA\_ABSY = \$9E  
OPC6502\_AHX\_ABSY = \$9F  
OPC6502\_SAH\_ABSY = \$9F  
OPC6502\_AXA\_ABSY = \$9F

; CODES A0-AF

OPC6502\_LDY\_IMM = \$A0  
OPC6502\_LDA\_XIND = \$A1  
OPC6502\_LDX\_IMM = \$A2  
OPC6502\_LAX\_XIND = \$A3  
OPC6502\_LDY\_ZP = \$A4  
OPC6502\_LDA\_ZP = \$A5  
OPC6502\_LDX\_ZP = \$A6  
OPC6502\_LAX\_ZP = \$A7  
OPC6502\_TAY = \$A8  
OPC6502\_LDA\_IMM = \$A9  
OPC6502\_TAX = \$AA  
OPC6502\_LAX\_IMM = \$AB  
OPC6502\_LDY\_ABS = \$AC  
OPC6502\_LDA\_ABS = \$AD  
OPC6502\_LDX\_ABS = \$AE  
OPC6502\_LAX\_ABS = \$AF

; CODES B0-BF

OPC6502\_BCS = \$B0  
OPC6502\_LDA\_INDY = \$B1  
OPC6502\_HLT = \$B2  
OPC6502\_KIL = \$B2  
OPC6502\_JAM = \$B2  
OPC6502\_LAX\_INDY = \$B3  
OPC6502\_LDY\_ZPX = \$B4

OPC6502\_LDA\_ZPX = \$B5  
OPC6502\_LDX\_ZPY = \$B6  
OPC6502\_LAX\_ZPY = \$B7  
OPC6502\_CLV = \$B8  
OPC6502\_LDA\_ABSY = \$B9  
OPC6502\_TSX = \$BA  
OPC6502\_LAS\_ABSY = \$BB  
OPC6502\_LAR\_ABSY = \$BB  
OPC6502\_LAE\_ABSY = \$BB  
OPC6502\_LDY\_ABSX = \$BC  
OPC6502\_LDA\_ABSX = \$BD  
OPC6502\_LDX\_ABSY = \$BE  
OPC6502\_LAX\_ABSY = \$BF

; CODES C0-CF

OPC6502\_CPY\_IMM = \$C0  
OPC6502\_CMP\_XIND = \$C1  
OPC6502\_NOP\_IMM = \$C2  
OPC6502\_DCP\_XIND = \$C3  
OPC6502\_CPY\_ZP = \$C4  
OPC6502\_CMP\_ZP = \$C5  
OPC6502\_DEC\_ZP = \$C6  
OPC6502\_DCP\_ZP = \$C7  
OPC6502\_INY = \$C8  
OPC6502\_CMP\_IMM = \$C9  
OPC6502\_DEX = \$CA  
OPC6502\_AXS\_IMM = \$CB  
OPC6502\_AAX\_IMM = \$CB  
OPC6502\_CPY\_ABS = \$CC  
OPC6502\_CMP\_ABS = \$CD  
OPC6502\_DEC\_ABS = \$CE  
OPC6502\_DCP\_ABS = \$CF

; CODES D0-DF

OPC6502\_BNE = \$D0  
OPC6502\_CMP\_INDY = \$D1  
OPC6502\_HLT = \$D2  
OPC6502\_KIL = \$D2  
OPC6502\_JAM = \$D2  
OPC6502\_DCP\_INDY = \$D3  
OPC6502\_NOP\_ZPX = \$D4  
OPC6502\_CMP\_ZPX = \$D5  
OPC6502\_DEC\_ZPX = \$D6  
OPC6502\_DCP\_ZPX = \$D7  
OPC6502\_CLD = \$D8  
OPC6502\_CMP\_ABSY = \$D9  
OPC6502\_NOP = \$DA  
OPC6502\_DCP\_ABSY = \$DB  
OPC6502\_NOP\_ABSX = \$DC  
OPC6502\_CMP\_ABSX = \$DD  
OPC6502\_DEC\_ABSX = \$DE

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OPC6502_DCP_ABSX = $DF

;CODES E0-EF
OPC6502_CPX_IMM = $E0
OPC6502_SBC_XIND = $E1
OPC6502_NOP_IMM = $E2
OPC6502_ISC_XIND = $E3
OPC6502_ISB_XIND = $E3
OPC6502_CPX_ZP = $E4
OPC6502_SBC_ZP = $E5
OPC6502_INC_ZP = $E6
OPC6502_ISC_ZP = $E7
OPC6502_ISB_ZP = $E7
OPC6502_INX = $E8
OPC6502_SBC_IMM = $E9
OPC6502_NOP = $EA
OPC6502_SBC_IMM = $EB
OPC6502_CPX_ABS = $EC
OPC6502_SBC_ABS = $ED
OPC6502_INC_ABS = $EE
OPC6502_ISC_ABS = $EF
OPC6502_ISB_ABS = $EF

;CODES F0-FF
OPC6502_BEQ = $F0
OPC6502_SBC_INDY = $F1
OPC6502_HLT = $F2
OPC6502_KIL = $F2
OPC6502_JAM = $F2
OPC6502_ISC_INDY = $F3
OPC6502_ISB_INDY = $F3
OPC6502_NOP_ZPX = $F4
OPC6502_SBC_ZPX = $F5
OPC6502_INC_ZPX = $F6
OPC6502_ISC_ZPX = $F7
OPC6502_ISB_ZPX = $F7
OPC6502_SED = $F8
OPC6502_SBC_ABSY = $F9
OPC6502_NOP = $FA
OPC6502_ISC_ABSY = $FB
OPC6502_ISB_ABSY = $FB
OPC6502_NOP_ABSX = $FC
OPC6502_SBC_ABSX = $FD
OPC6502_INC_ABSX = $FE
OPC6502_ISC_ABSX = $FF
OPC6502_ISB_ABSX = $FF
```

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