Memory space

1. 0x10010000
2. 0x10010004
3. 0x00400000
4. 0x00400004
5. 0x00400008
6. Some aren’t true instructions, and are only “shorthand”, they are converted into two instructions at runtime.
7. The ascii representation of a string, in $v0 it’s 4 for string
8. The direct integer itself

Assembler Directives

1. To label memory addresses, to create “variables” in MIPS
2. demoData, Z

Instructions

1. Loads the int 5 into $t0
2. Loads the address of myLabel
3. Loads the value of what’s at the address of myLabel
4. $v0 = 4
5. $v0 = 5
6. 00100100000010000000000000000101

Data

1. 0x10010000
2. 0x10010000
   1. Hex: 4, Decimal: 4
3. 0x10010004
   1. Hex: 0, Decimal: 0
4. 0x10010008
   1. 7\*4 = 28 bytes
   2. “The square of integer is “
   3. Represent ascii characters, translated with an ascii table