Understanding Strings

Goals and Objectives



Why Work with Strings?

- Numbers are stored in a computer
 - In memory, on a flash drive, on a hard drive
- .mp4

```
00000000 00000000 00000000 01010000 01010100 01000011
01100101 01110011 01010100 01000001 01001100 01000010
10001001 01010000 01001110 01000111 00001101 00001010
01010100 01101000 01100101 00100000 01000011 01100001
01110011 01101011 00100000 01101111 01100110 00100000
01000001 01101101 01101111 01101110 01110100 01101001
01000101 01100100 01100111 01100001 01110010 00100000
```



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- .mp4
- .png

```
00000000 00000000 00000000 01010000 01010100 01000011
01100101 01110011 01010100 01000001 01001100 01000010
10001001 01010000 01001110 01000111 00001101 00001010
01010100 01101000 01100101 00100000 01000011 01100001
01110011 01101011 00100000 01101111 01100110 00100000
01000001 01101101 01101111 01101110 01110100 01101001
01000101 01100100 01100111 01100001 01110010 00100000
```



Why Work with Strings?

- Numbers are stored in a computer
 - In memory, on a flash drive, on a hard drive
- .mp4
- .png
- txt

```
00000000 00000000 00000000 01010000 01010100 01000011
01100101 01110011 01010100 01000001 01001100 01000010
10001001 01010000 01001110 01000111 00001101 00001010
01010100 01101000 01100101 00100000 01000011 01100001
01110011 01101011 00100000 01101111 01100110 00100000
01000001 01101101 01101111 01101110 01110100 01101001
01000101 01100100 01100111 01100001 01110010 00100000
```



- We use **Strings** to store readable data
 - Readable by ... you, or a computer
 - Find patterns, knowledge, information



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```
>JX477166v1
CGGACACACAAAAGGAAAAAGGTTTTTTTAAGATTTTTTTGTGTGCGAGTAACTATGAGGAAGATTAACAG
TTTTCCTCAGTTTAAGGTATACACTGAAATTGAGATTGAGATTCTCCTCTTTTGCTATTCTGTAACTTTCC
CTGGTTGTGACAATTGAATCAGTTTTATCTATTACCAATTACCATCAACATGGTATGTCTAGTGATCTTG
GGACTCTTCTTCATCTGGTTTTTTCCTAGAGCTCTGAATCTATTTTGTGAGAAGTTCATCCAAACGACCCA
```



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cdatetime,address,district,beat,grid,crimedescr,ucr_ncic_code,latitude,longitude
1/1/06 0:00,2082 EXPEDITION WAY,5,5A,1512,459 PC BURGLARY RESIDENCE,2204,38.47350069,-121.4901858
1/1/06 0:00,4 PALEN CT,2,2A,212,10851(A)VC TAKE VEH W/O OWNER,2404,38.65784584,-121.4621009
1/1/06 0:00,22 BECKFORD CT,6,6C,1443,476 PC PASS FICTICIOUS CHECK,2501,38.50677377,-121.4269508



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cdatetime,address,district,beat,grid,crimedescr,ucr_ncic_code,latitude,longitude 1/1/06 0:00,2082 EXPEDITION WAY,5,5A,1512,***,2204,38.47350069,-121.4901858 1/1/06 0:00,4 PALEN CT,2,2A,212,***,2404,38.65784584,-121.4621009 1/1/06 0:00,22 BECKFORD CT,6,6C,1443,***,2501,38.50677377,-121.4269508



Goals for Lesson





Goals for Lesson

- Learn about the Java String class
 - Details, idioms, programming experience
 - Common String methods
- Learn about Java types and operators
 - Numeric types and operators as well as String
 - int and double types
- Finding patterns and information
 - Searching, repeating, reasoning

