

Lecture 2: Morse Code to Huffman Coding

Lecturer: Travis Gagie

January 15th, 2015

Morse Code

1. designed in the USA in the 1840s
2. redesigned in Germany a few years later
3. in common use for well over 100 years
4. uses dots, dashes and 3 lengths of pauses
5. assigns short codes for common characters, long codes for uncommon ones

A 

B 


C 

D 

E 

F 

G 

H 


I 


J 


K 


L 


M 


N 


O 


P 


Q 


R 


S 


T 


U 


V 

W 

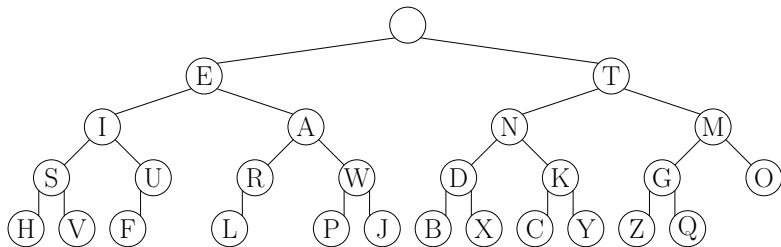
X 

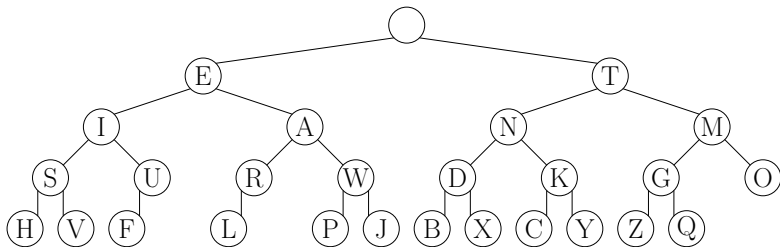
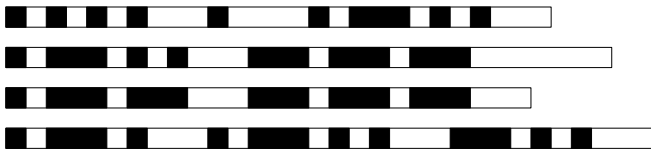
Y 

Z 

SPACE 

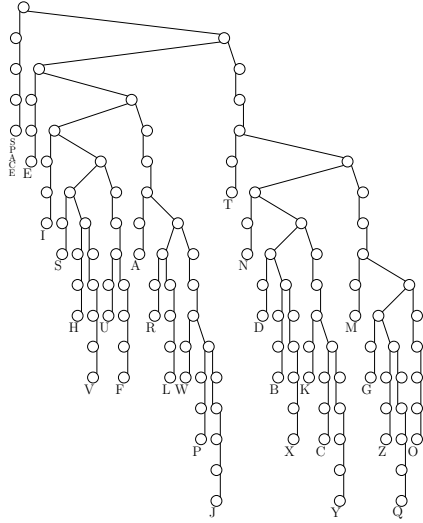






HELLO WORLD

A	10111000	N	11101000
B	111010101000	O	11101110111000
C	11101011101000	P	10111011101000
D	1110101000	Q	1110111010111000
E	1000	R	1011101000
F	101011101000	S	10101000
G	111011101000	T	111000
H	1010101000	U	1010111000
I	101000	V	101010111000
J	1011101110111000	W	101110111000
K	111010111000	X	11101010111000
L	101110101000	Y	1110101110111000
M	1110111000	Z	11101110101000
		SPACE	0000



“Improved” Morse

A	10110	N	11100
B	11101010	O	111111
C	11101110	P	10111110
D	1110100	Q	11111011
E	100	R	1011100
F	1010111	S	1010100
G	1111100	T	110
H	10101010	U	1010110
I	10100	V	10101011
J	10111111	W	1011110
K	1110110	X	11101011
L	1011101	Y	11101111
M	11110	Z	11111010
		SPACE	0

