Converting analog data to binary

[illegible]

[illegible]

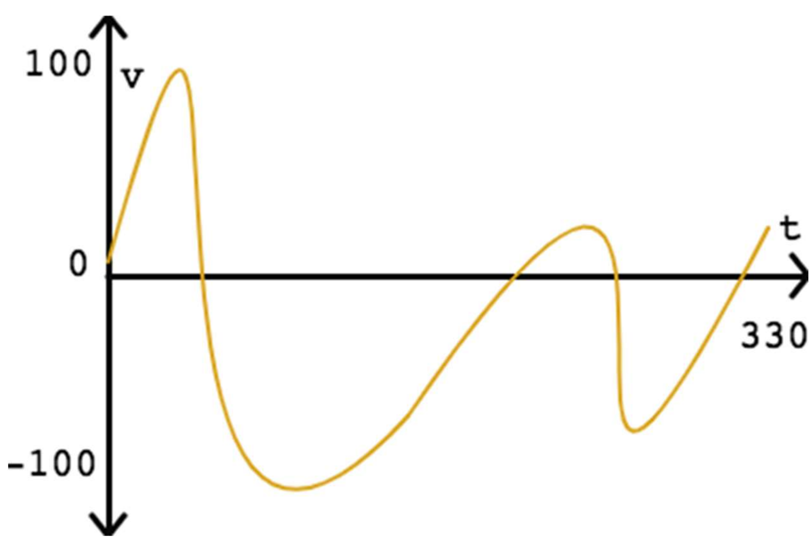
[illegible]

[illegible] finite data in a binary representation.

[illegible]

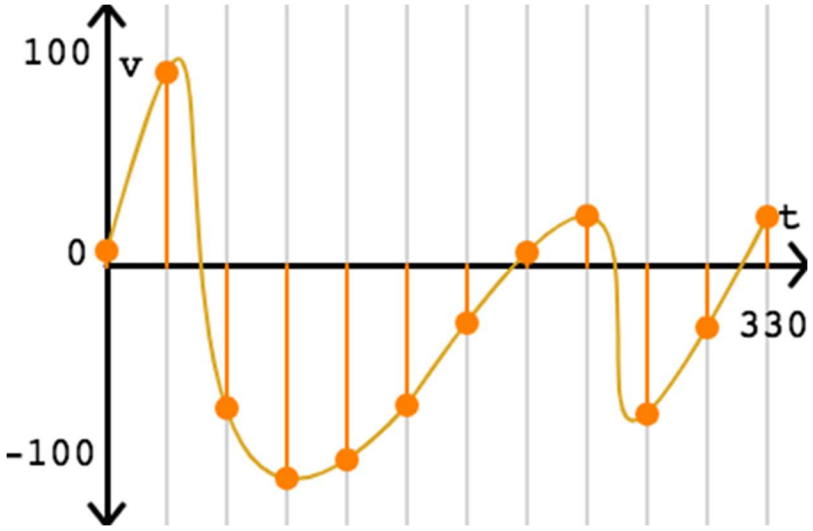
An analog signal

[illegible]



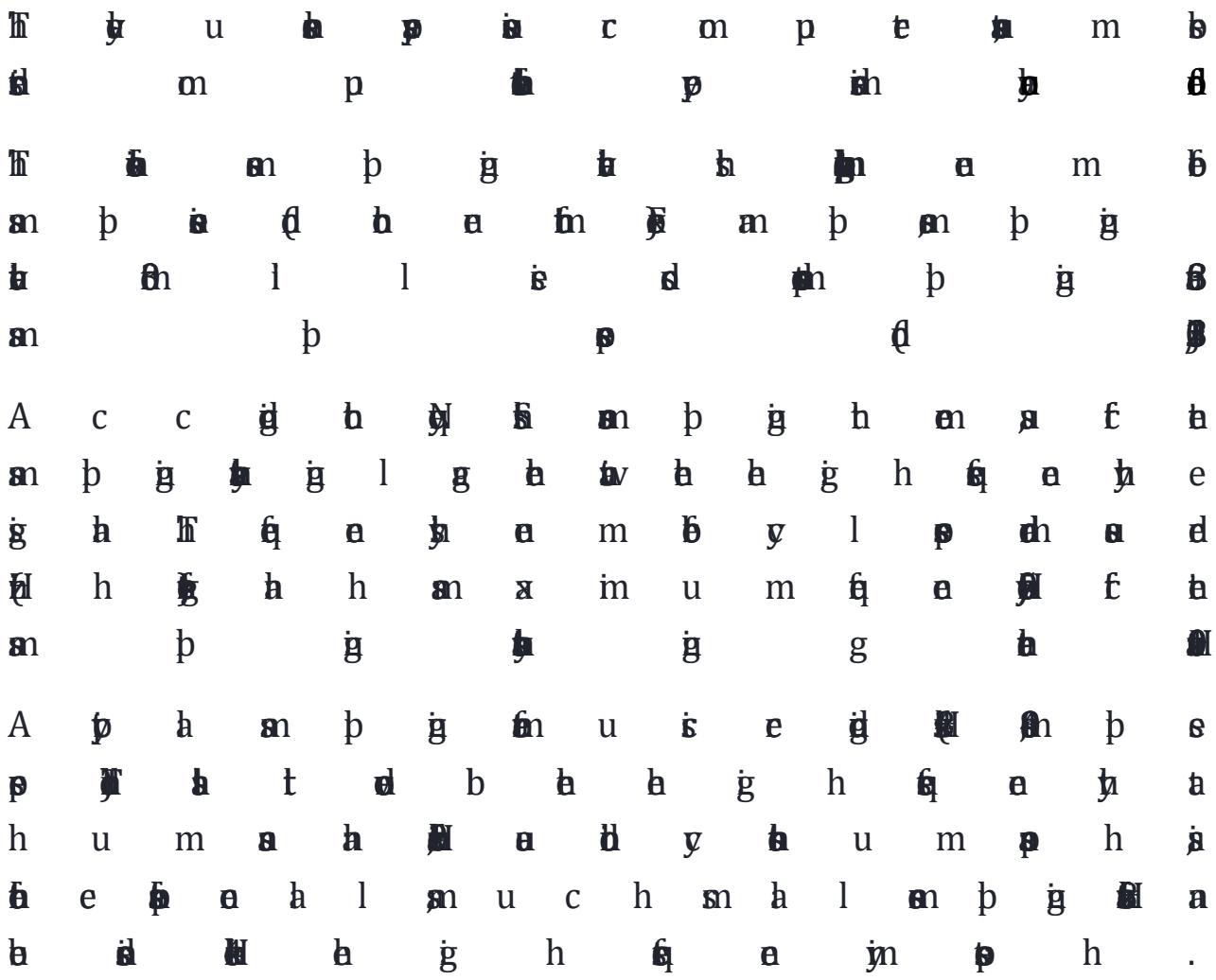
[illegible]

Sampling

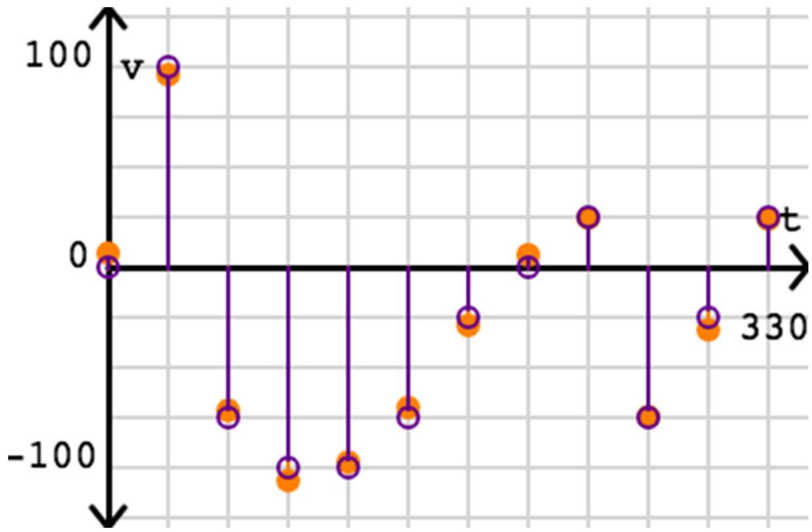


(0, 7)

```
(30, 95.98676803710936)
(60, -71.43289186523432)
(90, -106.55949554687498)
(120, -97.21617085937501)
(150, -70)
(180, -29.045472375000003)
(210, 6.171340345703143)
(240, 24.439022283203116)
(270, -74.45763529492186)
(300, -31.31245312500002)
(330, 24)
```



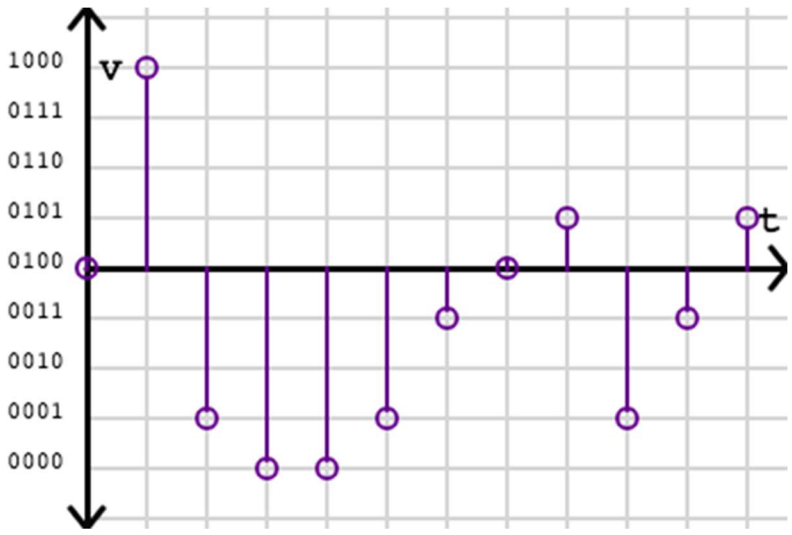
Quantization




```
(0, 0)

(30, 100)

(60, -75)

(90, -100)

(120, -100)

(150, -75)

(180, -25)

(210, 0)

(240, 25)

(270, -75)
```

```
(300, -25)

(330, 25)
```

Binary encoding



```
0100 1000 0001 0000 0000 0001 0011 0100 0101 0001 0011 0101
```

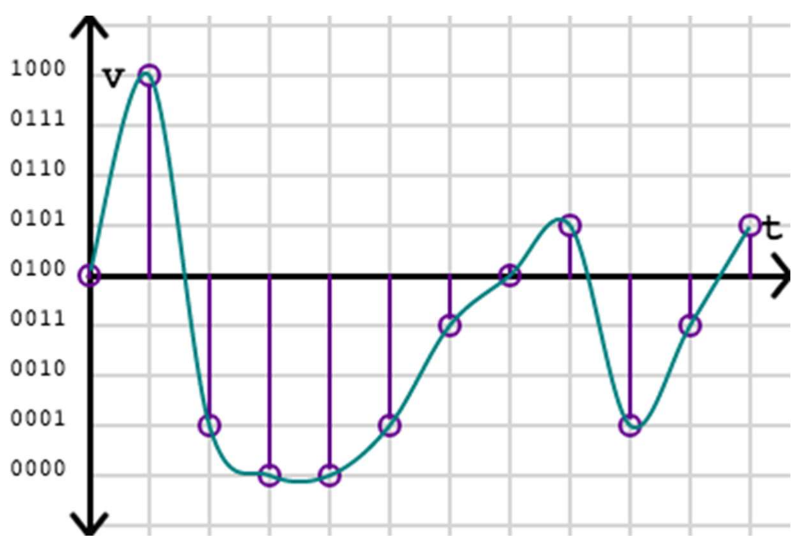
[illegible] enc[illegible]oded.

[illegible]

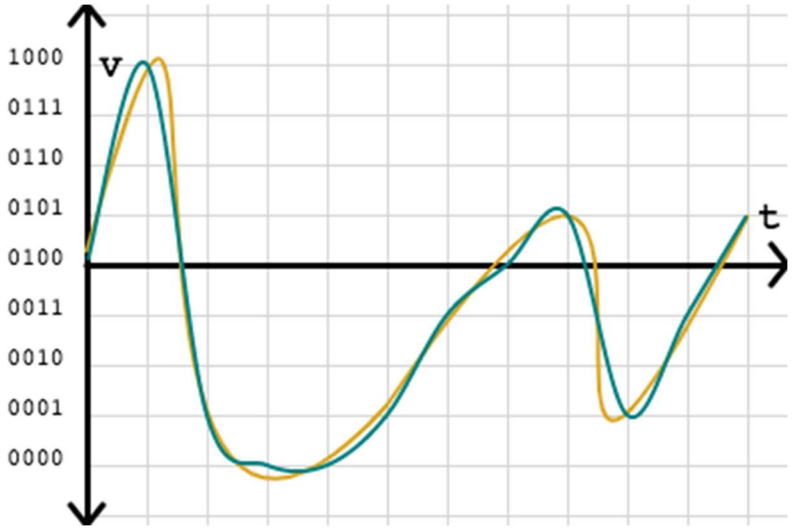
Reconstruction

[illegible]

[illegible]



[illegible]



Summary

rec onstr
u
c tion of
th e
orig ina
l infinite
stream of
c ontin
u o
u s
u