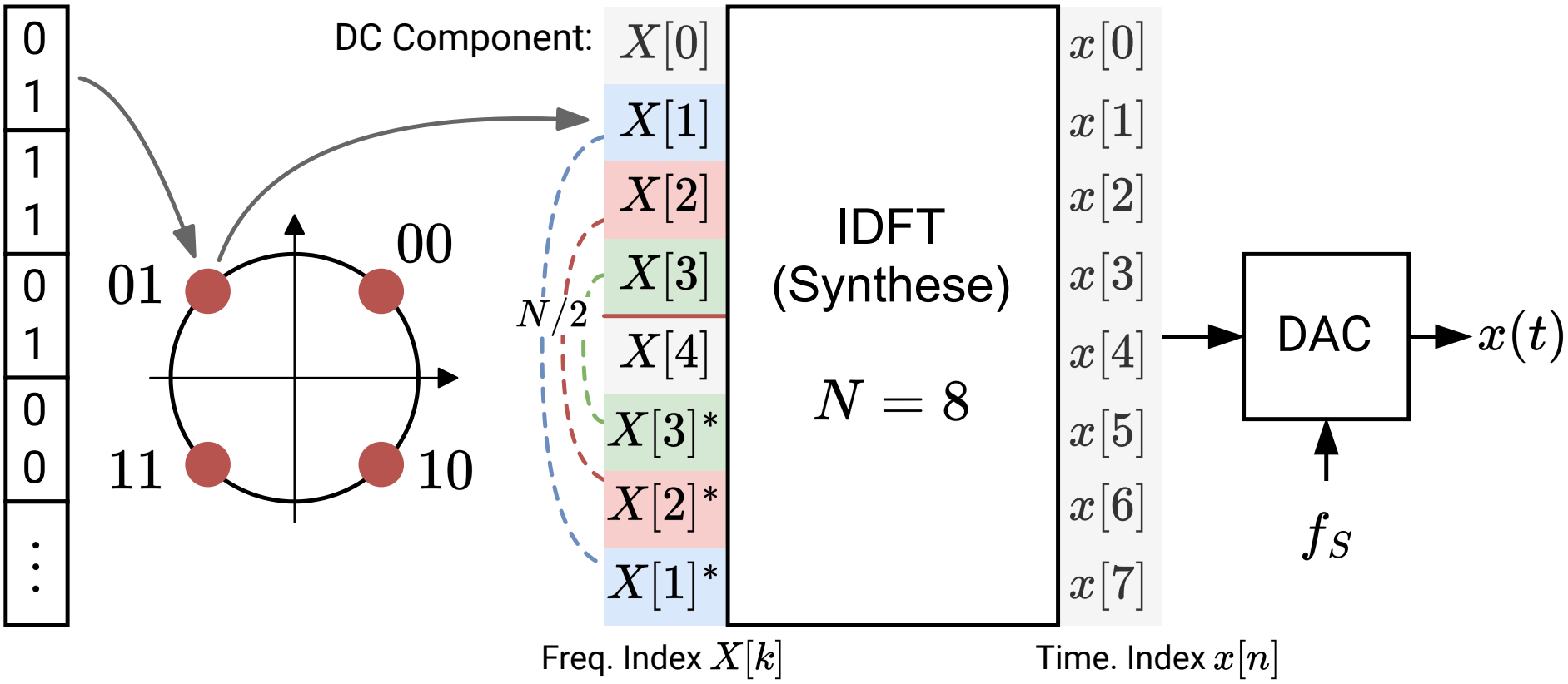
0
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0
1
0
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⋮
01
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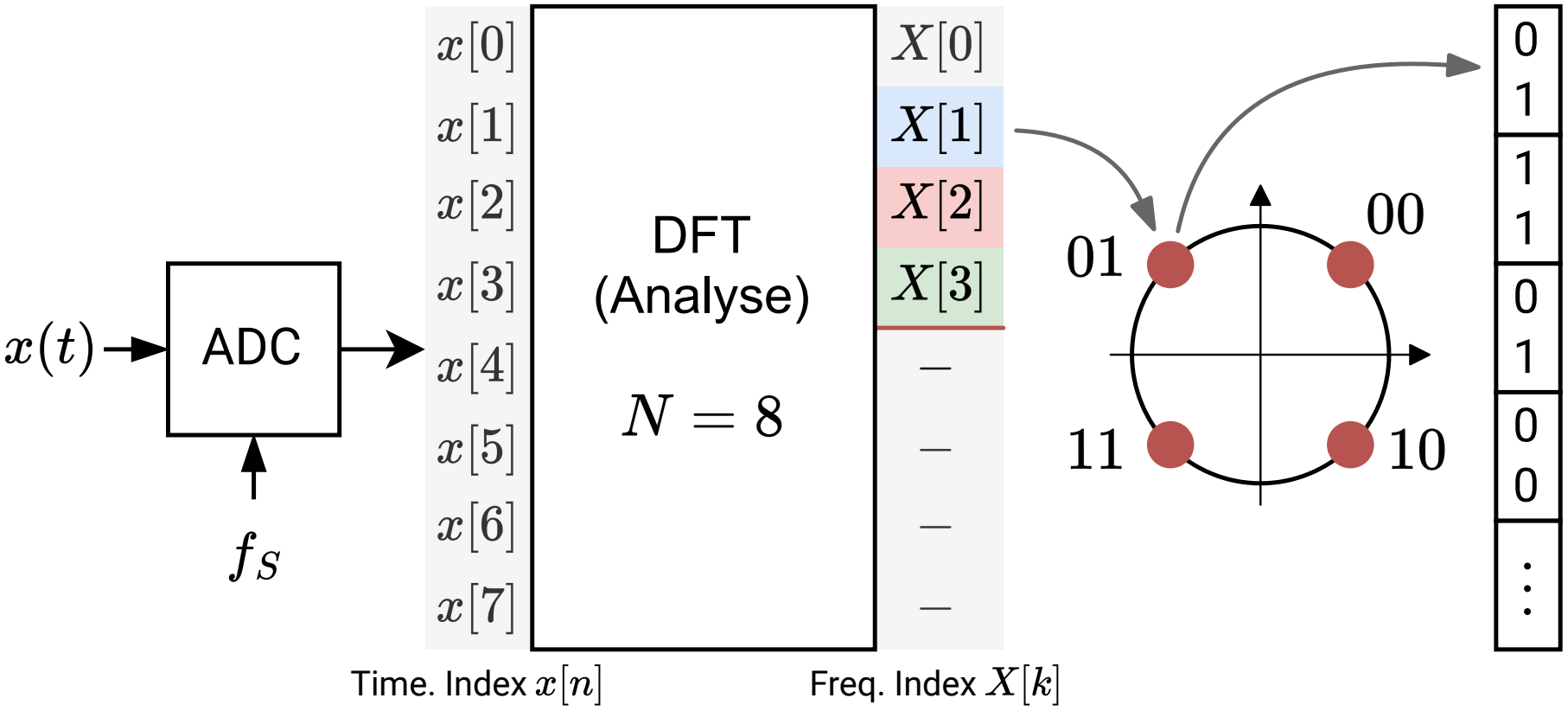
11
10
DC Component:
$X[0]$
$X[1]$
$X[2]$
$X[3]$
$X[4]$
$X[3]^*$
$X[2]^*$
$X[1]^*$
$N/2$
IDFT
(Synthese)
$N = 8$
$x[0]$
$x[1]$
$x[2]$
$x[3]$
$x[4]$
$x[5]$
$x[6]$
$x[7]$
DAC
$x(t)$
f_S
Freq. Index $X[k]$
Time. Index $x[n]$


$x(t)$
ADC
f_S
$x[0]$
$x[1]$
$x[2]$
$x[3]$
$x[4]$
$x[5]$
$x[6]$
$x[7]$
DFT
(Analyse)
$N = 8$
$X[0]$
$X[1]$
$X[2]$
$X[3]$
–
–
–
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01
00
11
10
0
1
1
1
0
1
0
0
⋮
Time. Index $x[n]$
Freq. Index $X[k]$