

1
00:00:02,120 --> 00:00:07,500
galaxies are like islands in the sea of

2
00:00:04,650 --> 00:00:15,450
space they glow with the light of

3
00:00:07,500 --> 00:00:18,539
billions of Suns the Hubble telescope

4
00:00:15,449 --> 00:00:24,299
reveals nearby galaxies in exquisite

5
00:00:18,539 --> 00:00:26,779
detail galaxies like these fill the

6
00:00:24,300 --> 00:00:26,778
universe

7
00:00:28,500 --> 00:00:31,609
[Music]

8
00:00:34,009 --> 00:00:41,170
looking deep into space we see an

9
00:00:36,588 --> 00:00:41,170
astonishing array of distant galaxies

10
00:00:42,789 --> 00:00:47,649
it takes millions of years for their

11
00:00:44,950 --> 00:00:51,810
light to reach us we see them not as

12
00:00:47,649 --> 00:00:51,810
they are but as they once were

13
00:00:55,030 --> 00:01:02,739
in one tiny region of the sky Hubble

14
00:00:57,759 --> 00:01:05,530
finds some 30,000 galaxies within a

15
00:01:02,738 --> 00:01:08,939
single image we can explore 10 billion

16
00:01:05,530 --> 00:01:08,939
years of cosmic history

17
00:01:12,549 --> 00:01:16,439
[Music]

18
00:01:24,700 --> 00:01:29,900
relatively nearby galaxies are fully

19
00:01:27,170 --> 00:01:33,820
formed with complete spiral structures

20
00:01:29,900 --> 00:01:33,820
and smooth elliptical shapes

21
00:01:34,920 --> 00:01:39,388
[Music]

22
00:01:39,540 --> 00:01:45,270
as we travel farther into space we see

23
00:01:42,719 --> 00:01:46,709
galaxies as they were further back in

24
00:01:45,269 --> 00:01:48,869
time

25
00:01:46,709 --> 00:01:51,269
these galaxies appear somewhat

26
00:01:48,870 --> 00:01:53,900
disheveled their mature structure is

27
00:01:51,269 --> 00:01:53,899
still developing

28
00:01:56,868 --> 00:02:02,688
when universe was young newly formed

29

00:01:59,989 --> 00:02:09,258
galactic discs were ablaze with star

30
00:02:02,688 --> 00:02:11,329
formation beyond this point clumps of

31
00:02:09,258 --> 00:02:14,049
stars that are beginning to form

32
00:02:11,330 --> 00:02:14,050
galaxies

33
00:02:26,060 --> 00:02:30,750
we've seen that a handful of the

34
00:02:28,469 --> 00:02:33,919
billions of galaxies stretched across

35
00:02:30,750 --> 00:02:33,919
space and time

36
00:02:34,068 --> 00:02:41,000
just one small sliver of the universe

37
00:02:37,699 --> 00:02:41,000
observed by Hubble

38
00:02:47,099 --> 00:02:53,188
[Music]