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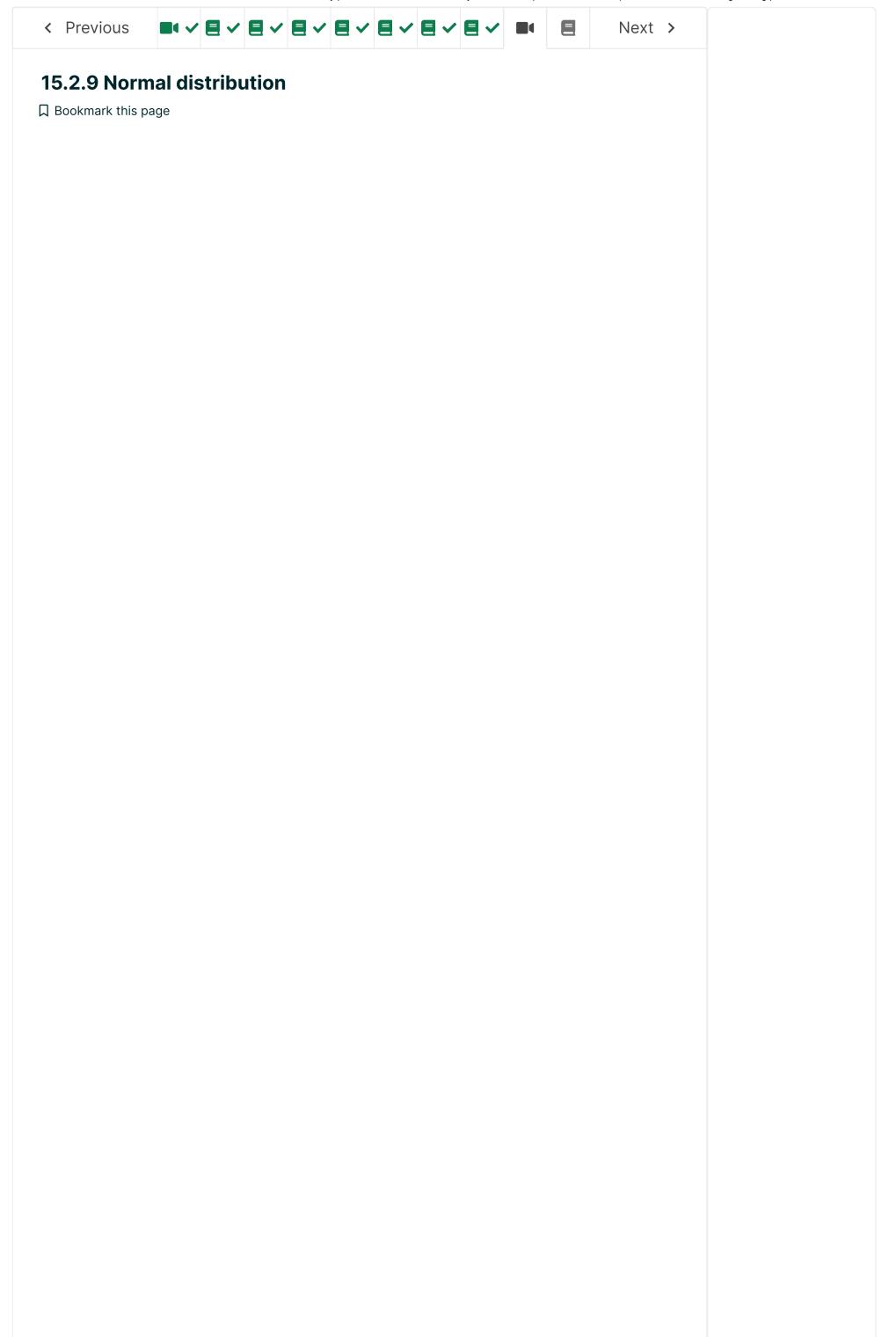
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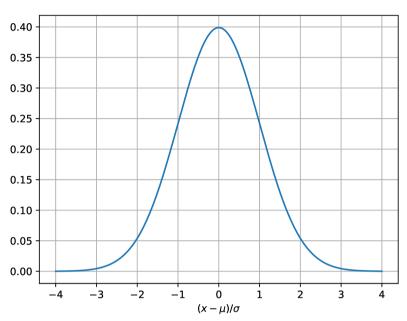
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Perhaps the most famous distribution is the normal distribution, also known as the Gaussian distribution. The PDF of the normal distribution is shown in Figure 15.6 and is commonly referred to as $\mathcal{N}\left(\mu,\sigma^2
ight)$ given by,

$$\mathcal{N} = rac{1}{\sigma\sqrt{2\pi}} \mathrm{exp} \left[-rac{1}{2} igg(rac{x-\mu}{\sigma}igg)^2
ight]$$

(15.12)



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Figure 15.6: Normal distribution

Numey can be used to generate random numbers with a normal distribution by

calling the normal method in the Numpy default random number generator class: edX

Abimport numpy as np

<u>Affiliates</u>

xmu, xsigma must be defined!

Open edX
rng = np.random.default_rng()

<u>Careers</u>rng.normal(xmu, xsigma, shape)

where shape again is an integer or tuple giving the shape of the returned array of

Legal distributed numbers.

Temps விண்ற்லிக்கொழுத்தின் the use of uniform, triangular, and normal

Privations in the projectile application problem.

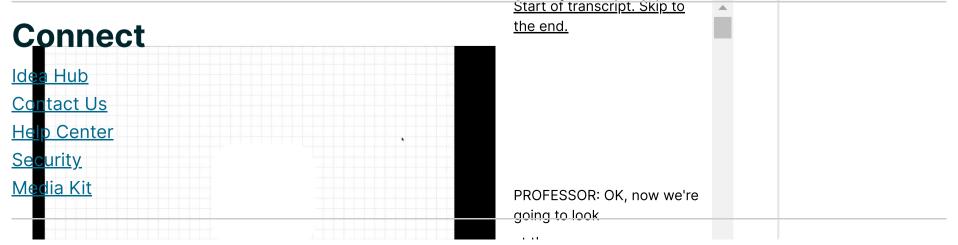
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