LINKS  
**Conditional probability and Bayes Theorem**   
<https://medium.com/@mithunmanohar/machine-learning-101-what-the-is-a-conditional-probability-f0f9a9ec6cda>

**Exercises about conditional probability**  
<https://www.khanacademy.org/math/ap-statistics/probability-ap/stats-conditional-probability/e/calculating-conditional-probability>

**Discrete probability distribution**  
<https://stats.libretexts.org/Bookshelves/Introductory_Statistics/Book%3A_Introductory_Statistics_(Shafer_and_Zhang)/04%3A_Discrete_Random_Variables/4.02%3A_Probability_Distributions_for_Discrete_Random_Variables>

**Joint probability**  
<https://machinelearningmastery.com/how-to-calculate-joint-marginal-and-conditional-probability/>

**Conditional and joint probability (everything except the "continuous variables" section)**

<https://towardsdatascience.com/deep-learning-book-series-3-4-and-3-5-marginal-and-conditional-probability-8c6239e453b8> (book "Deep learning")

LINKS

**Types of discrete probability distributions** (we have seen only the first two, Bernoulli and binomial distributions, you can focus on these): <https://www.simplilearn.com/tutorials/statistics-tutorial/what-is-probability-distribution>

**Joint and marginal probability distributions (discrete case) :**   
<https://stats.libretexts.org/Courses/Saint_Mary%27s_College_Notre_Dame/MATH_345__-_Probability_(Kuter)/5%3A_Probability_Distributions_for_Combinations_of_Random_Variables/5.1%3A_Joint_Distributions_of_Discrete_Random_Variables>

**Get the intuition of the continuous probability distributions**: the example of the uniform distribution (you don't have to pay attention to the end of this article about about other examples of continuous probability distributions): <https://opentextbc.ca/introstatopenstax/chapter/continuous-probability-functions/>

(don't pay attention to the end with all the probability distributions)

**Discrete vs continuous probability distribution**:

<https://support.minitab.com/en-us/minitab-express/1/help-and-how-to/basic-statistics/probability-distributions/supporting-topics/basics/continuous-and-discrete-probability-distributions/>

**Probability density function:**

<https://online.stat.psu.edu/stat414/lesson/14/14.1>

**Joint continuous distributions :**

<https://dlsun.github.io/probability/joint-continuous.html>

**Solved exercises joint probability distributions:**

<https://www.probabilitycourse.com/chapter5/5_2_5_solved_prob.php>

I'll share other links (videos).

**Vizualizing the binomial distribution:**

<https://youtu.be/Y2-vSWFmgyI>

**Intuition of the density probabilty function:**

<https://youtu.be/jUFbY5u-DMs>

**Probability density function**:

<https://youtu.be/8QFpZ3FndBc>

**Probability density function in the case of a joint continuous distribution:** <https://youtu.be/O4QYcoxuLHE>

**Uniform distribution in 6min:**

<https://youtu.be/UC-CBUSQXAo>

**Marginal probability distribution in the continuous case** (we talked very quickly about this but this might help you understanding the fact that it's almost the same thing as in the discrete case):  
<https://youtu.be/h8DKVKfWU_Q>

**Joint distribution (in discrete and continuous cases) and a few other things (in less than 7min):** <https://youtu.be/CQS4xxz-2s4>

(beware, in this video they call the probability density function p instead of f)