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Last Updated on February 11, 2021 Instagram allows you to see exactly what inspires people and how creativity is drawn from their everyday life. We use Instagram to capture what makes us smile, what brings joy to our life, and what we are passionate about, and the accounts listed below are sure to inspire you in turn. Here are our 20 top creative Instagram accounts that you should be following today.

1. Humans Of New York Brandon Stanton walks the streets of New York City taking street photography, and he gets his subjects to open up about life details that even many family members may not know about them. It makes you smile and connect with the images at a new level.
2. Paris in Four Months Carin Olsson moved to Paris and is documenting every part of her experience, from the macarons to the Eiffel Tower with all of its shimmering lights. If you want to go to Paris but can't get there today, Carin will take you.
3. Civilized Caveman Cooking George Bryant offers up more than his love for cooking Paleo cuisine as he shares more about life, joy, and happiness. His coined hashtag is #hugsandbacon.
4. Andrew Knapp Andrew has taken the world by storm with his adorable version of Where's Waldo? His version is Find Momo, and stars his border collie.
5. Idafrsklda Skivenes has developed a knack for food art. From the world of Charlie and the Chocolate Factory to Strawberry Fields Forever, she has recreated it all with food.
6. GrandmaBetsy33 Grandma Betsy is fighting cancer and is inspiring others to smile and be happy in life. She brings a smile to your face instantly and is like having your grandma right beside you.
7. Maya_on_the_Move Tania Ahsan captures the world of her cute bulldog, Maya, on her adventures in New York. Maya makes appearances that will make you smile, laugh, and inspire you to go out and create something special.
8. Leoleoparis Leo captures the life on the streets of Paris. Most of his work is done in black and white, offering that iconic Parisian look.
9. Jacob Santiago Jacob Santiago creates stunning, vibrant images around New York City, showcasing the architecture and streets. I'm sure you haven't seen the streets of NYC like this before.
10. Julie's Kitchen Julie Lee showcases how everyday produce can create colorful art designs. At first glance, you think it is just a design; then, a second take illustrates that it is really fruits and vegetables.
11. iloveplaymoiloveplaymo brings together photography and Playmobil toys in action. The images are up to date with current world events and everyday life.
12. "Red" Hong Yi Red Hong Yi loves to paint without a paintbrush. Her style uses daily items to create lovely images.
13. Alexis Diaz A breathtaking artist from Puerto Rico who loves to paint murals. Alexis's work is featured all over the world.
14. Murad Osmann Murad Osmann is a music video producer, but his claim to fame on Instagram has been his photographs with his girlfriend leading him by her hand.
15. Simone Bramate Simone Bramate is a storyteller who just so happens to take delightful photos as well.
16. Willie Kessel Willie Kessel brings beach life right to your smartphone. Amazing surf and lifestyle images that take your mind off of all of the work and stress in your life.
17. Nick Olivieri Nick Olivieri is a talented photographer who loves to capture the windy city of Chicago and skies, especially during storms. His images are gorgeous and make you realize how wonderful life really is.
18. Jo Jerry Jo Jerry's landscape photos around Santorini, Greece, make you want to book a flight immediately. The bright colors and simplicity in the images make his photos stand out from the rest.
19. GoProGoPro uses fan-sourced images on their account that are all captured with a GoPro. Creativity to the max is used in these images and range from the grocery store to incredible surf.
20. Vin Farrell Vin Farrell is a creative who works on the agency side for large clients and has a knack for photography. His iPhone captures amazing aerial images around NYC and the world. Featured photo credit: Andy via flickr.com

In statistics, the degrees of freedom are used to define the number of independent quantities that can be assigned to a statistical distribution. This number typically refers to a positive whole number that indicates the lack of restrictions on a person's ability to calculate missing factors from statistical problems. Degrees of freedom act as variables in the final calculation of a statistic and are used to determine the outcome of different scenarios in a system, and in math degrees of freedom define the number of dimensions in a domain that is needed to determine the full vector. To illustrate the concept of a degree of freedom, we will look at a basic calculation concerning the sample mean, and to find the mean of a list of data, we add all of the data and divide by the total number of values. For a moment suppose that we know the mean of a data set is 25 and that the values in this set are 20, 10, 50, and one unknown number. The formula for a sample mean gives us the equation $(20 + 10 + 50 + x)/4 = 25$, where x denotes the unknown, using some basic algebra, one can then determine that the missing number, x , is equal to 20. Let's alter this scenario slightly. Again we suppose that we know the mean of a data set is 25. However, this time the values in the data set are 20, 10, and two unknown values. These unknowns could be different, so we use two different variables, x , and y , to denote this. The resulting equation is $(20 + 10 + x + y)/4 = 25$. With some algebra, we obtain $y = 70 - x$. The formula is written in this form to show that once we choose a value for x , the value for y is completely determined. We have one choice to make, and this shows that there is one degree of freedom. Now we'll look at a sample size of one hundred. If we know that the mean of this sample data is 20, but do not know the values of any of the data, then there are 99 degrees of freedom. All values must add up to a total of $20 \times 100 = 2000$. Once we have the values of 99 elements in the data set, then the last one has been determined. Degrees of freedom play an important role when using the Student t-score table. There are actually several t-score distributions. We differentiate between these distributions by use of degrees of freedom. Here the probability distribution that we use depends upon the size of our sample. If our sample size is n , then the number of degrees of freedom is $n-1$. For instance, a sample size of 22 would require us to use the row of the t-score table with 21 degrees of freedom. The use of a chi-square distribution also requires the use of degrees of freedom. Here, in an identical manner as with the t-score distribution, the sample size determines which distribution to use. If the sample size is n , then there are $n-1$ degrees of freedom. Another place where degrees of freedom show up is in the formula for the standard deviation. This occurrence is not as overt, but we can see it if we know where to look. To find a standard deviation we are looking for the "average" deviation from the mean. However, after subtracting the mean from each data value and squaring the differences, we end up dividing by $n-1$ rather than n as we might expect. The presence of the $n-1$ comes from the number of degrees of freedom. Since the n data values and the sample mean are being used in the formula, there are $n-1$ degrees of freedom. More advanced statistical techniques use more complicated ways of counting the degrees of freedom. When calculating the test statistic for two means with independent samples of n_1 and n_2 elements, the number of degrees of freedom has quite a complicated formula. It can be estimated by using the smaller of n_1-1 and n_2-1 . Another example of a different way to count the degrees of freedom comes with an F test. In conducting an F test we have k samples each of size n —the degrees of freedom in the numerator is $k-1$ and in the denominator is $k(n-1)$. In mathematics, symbols that have certain meanings in the English language can mean very specialized and different things. For example, consider the following expression: $3!$ No, we did not use the exclamation point to show that we're excited about three, and we shouldn't read the last sentence with emphasis. In mathematics, the expression $3!$ is read as "three factorial" and is really a shorthand way to denote the multiplication of several consecutive whole numbers. Since there are many places throughout mathematics and statistics where we need to multiply numbers together, the factorial is quite useful. Some of the main places where it shows up are combinatorics and probability calculus. The definition of the factorial is that for any positive whole number n , the factorial: $n! = n \times (n-1) \times (n-2) \times \dots \times 2 \times 1$ First we will look at a few examples of the factorial with small values of n : $1! = 12! = 2 \times 1 = 23! = 3 \times 2 \times 1 = 64! = 4 \times 3 \times 2 \times 1 = 245! = 5 \times 4 \times 3 \times 2 \times 1 = 1206! = 6 \times 5 \times 4 \times 3 \times 2 \times 1 = 7207! = 7 \times 6 \times 5 \times 4 \times 3 \times 2 \times 1 = 50408! = 8 \times 7 \times 6 \times 5 \times 4 \times 3 \times 2 \times 1 = 403209! = 9 \times 8 \times 7 \times 6 \times 5 \times 4 \times 3 \times 2 \times 1 = 36288010! = 10 \times 9 \times 8 \times 7 \times 6 \times 5 \times 4 \times 3 \times 2 \times 1 = 3628800$ As we can see the factorial gets very large very quickly. Something that may seem small, such as $20!$ actually has 19 digits. Factorials are easy to compute, but they can be somewhat tedious to calculate. Fortunately, many calculators have a factorial key (look for the $!$ symbol). This function of the calculator will automate the multiplications. One other value of the factorial and one for which the standard definition above does not hold is that of zero factorial. If we follow the formula, then we would not arrive at any value for $0!$. There are no positive whole numbers less than 0. For several reasons, it is appropriate to define $0! = 1$. The factorial for this value shows up particularly in the formulas for combinations and permutations. When dealing with calculations, it is important to think before we press the factorial key on our calculator. To calculate an expression such as $100!/98!$ there are a couple of different ways of going about this. One way is to use a calculator to find both $100!$ and $98!$, then divide one by the other. Although this is a direct way to calculate, it has some difficulties associated with it. Some calculators cannot handle expressions as large as $100! = 9.32262154 \times 10^{157}$. (The expression 10157 is a scientific notation that means that we multiply by 1 followed by 157 zeros.) Not only is this number massive, but it is also only an estimate to the real value of $100!$ Another way to simplify an expression with factorials like the one seen here does not require a calculator at all. The way to approach this problem is to recognize that we can rewrite $100!$ not as $100 \times 99 \times 98 \times 97 \times \dots \times 2 \times 1$, but instead as $100 \times 99 \times 98!$ The expression $100!/98!$ now becomes $(100 \times 99 \times 98!)/98! = 100 \times 99 = 9900$.

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