

Step 1: Signing up for Watson Visual Recognition

IBM Watson Visual Recognition is a service that uses deep learning algorithms to identify objects, faces and other content in an image.

To use the Visual Recognition service, you will need to first sign up for IBM Watson Studio:

IBM Watson Visual Recognition Sign Up

On the **signup page**, select the location where you want your data be stored in. In my case , I've chosen Dallas (in Texas, United States).

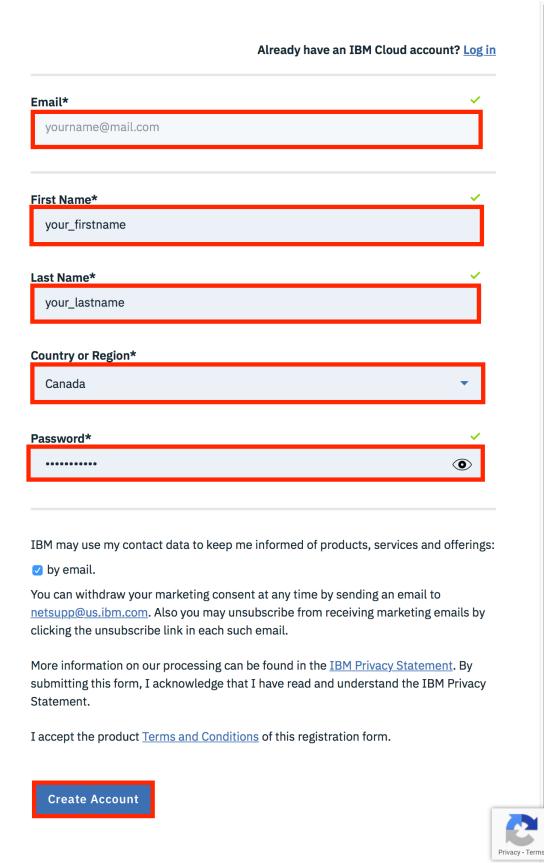
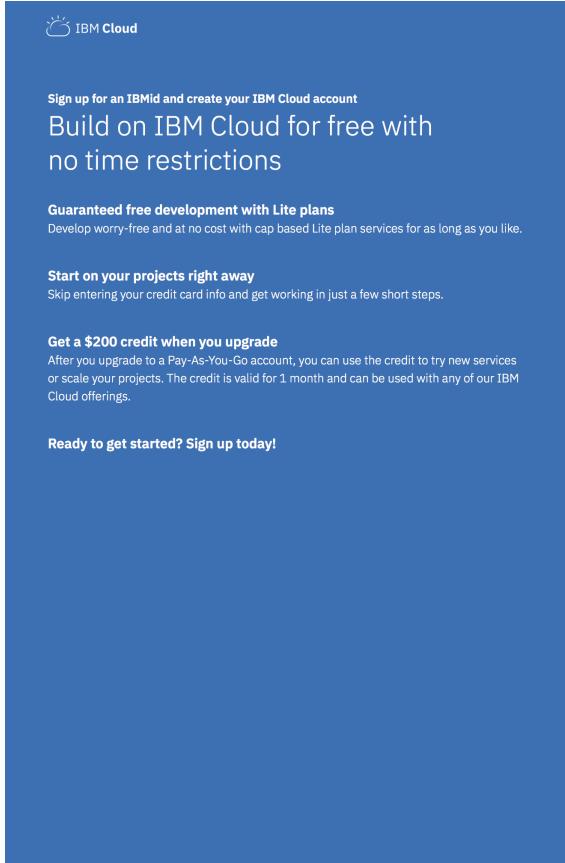
Enter your **email address**, then check the box to accept the terms of agreement. Then click the Next button to create your account.

*If you already have an IBM Cloud account, feel free to choose the login method in the lower right-hand side.

The screenshot shows the IBM Watson Studio sign-up process. On the left, there's a preview of the Watson Studio application interface with a dropdown menu set to 'Dallas (current)'. Below it, two sections are shown: 'Watson Studio' and 'Watson Knowledge Catalog'. The Watson Studio section describes it as 'Machine learning and AI made easy! Solve your business problems in a collaborative environment.' The Watson Knowledge Catalog section describes it as 'Connect the right data with the right people. Index, find, and protect your knowledge.' On the right, the 'Create an IBM Cloud Account' form is displayed. It includes a text input field for 'username@mail.com' (which is highlighted with a red box), a checked checkbox for accepting terms and conditions (also highlighted with a red box), and a 'Next' button at the bottom right.

Step 2: Filling in your information to create an IBM Cloud account

Next, if you already have an IBM Cloud account you can just log in in the link at the top. Otherwise, fill in your profile information, such as your Email, First Name, Last Name, Country or Region, and set your Password. Then click on the Create Account button to create your IBM Cloud account.



IBM Cloud

Sign up for an IBMid and create your IBM Cloud account

Build on IBM Cloud for free with no time restrictions

Guaranteed free development with Lite plans
Develop worry-free and at no cost with cap based Lite plan services for as long as you like.

Start on your projects right away
Skip entering your credit card info and get working in just a few short steps.

Get a \$200 credit when you upgrade
After you upgrade to a Pay-As-You-Go account, you can use the credit to try new services or scale your projects. The credit is valid for 1 month and can be used with any of our IBM Cloud offerings.

Ready to get started? Sign up today!

Already have an IBM Cloud account? [Log in](#)

Email*
yourname@mail.com

First Name*
your_firstname

Last Name*
your_lastname

Country or Region*
Canada

Password*

IBM may use my contact data to keep me informed of products, services and offerings:
 by email.
You can withdraw your marketing consent at any time by sending an email to netsupp@us.ibm.com. Also you may unsubscribe from receiving marketing emails by clicking the unsubscribe link in each such email.

More information on our processing can be found in the [IBM Privacy Statement](#). By submitting this form, I acknowledge that I have read and understand the IBM Privacy Statement.

I accept the product [Terms and Conditions](#) of this registration form.

Create Account



Step 3: Confirm your email address



Thanks!

To complete your registration, check your email.

Can't find the email? [Resend](#)

Make sure to click on "**Confirm Account**".

Hello your_firstname,

Thank you for signing up for
IBM Cloud! Confirm your
account to get started.

[Confirm Account](#)

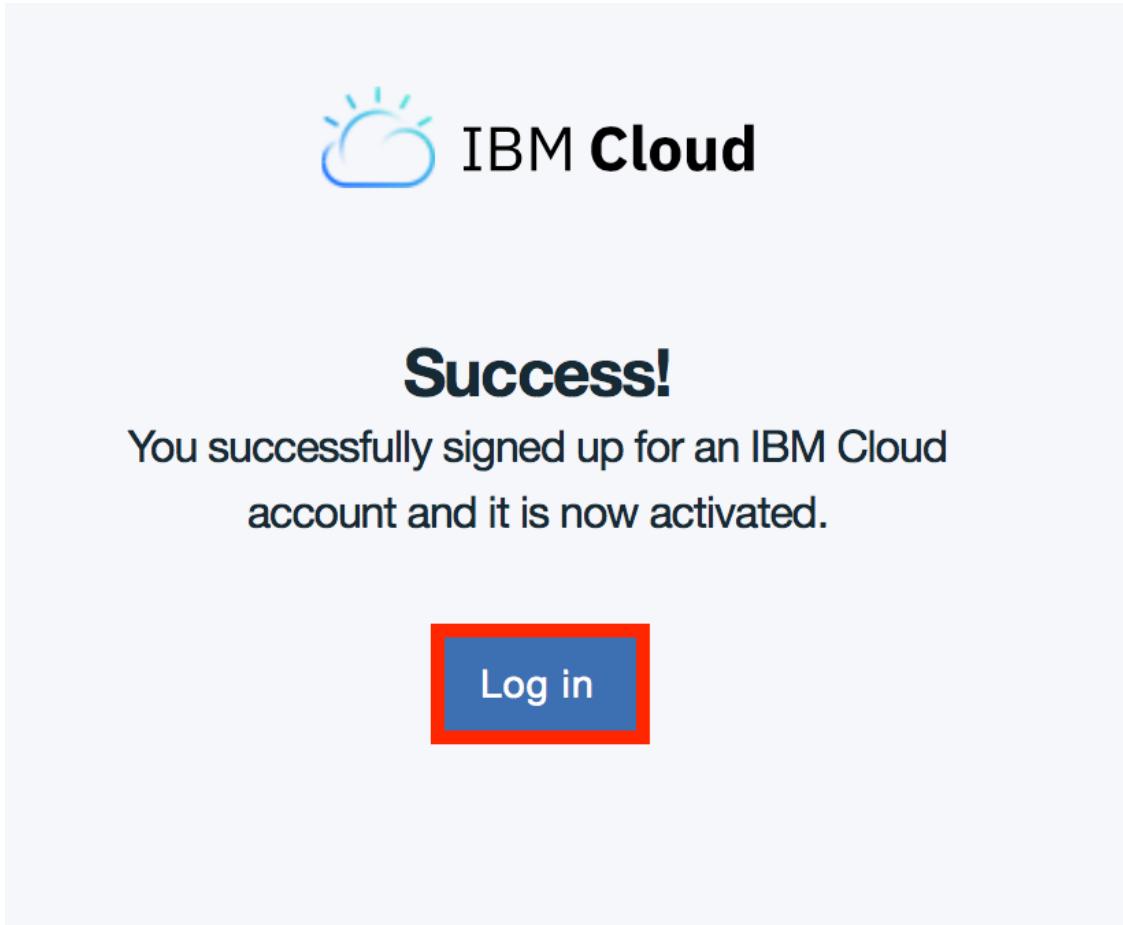
By confirming your account, you accept the [Terms
of Use](#)

Welcome and happy building!

—
Thank you,

IBM Cloud

Step 4: Login to your account



Log in to IBM

Don't have an IBMid?

[Create an account](#)

[Log in with your company
credentials \(SSO\)](#)

Need help? [Contact the IBM Help Desk](#)

IBMid

[Forgot IBMid?](#)

yourname@mail.com

Password

[Forgot password?](#)



Remember me [\(i\)](#)

[Log in](#)

Step 5: You may need to accept IBM Cloud Privacy terms

Click on "**Proceed**" to continue.

About your IBMid Account Privacy

This notice provides information about accessing your IBMid user account (Account). If you have previously been presented with a version of this notice, please refer to “Changes since the previous version of this notice” below for information about the new updates.

+ Changes since the previous version of this notice

+ What data does IBM collect?

+ Why IBM needs your data

+ How your data was obtained

+ How IBM uses your data

+ How IBM protects your data

+ How long we keep your data

Your rights

Our [Privacy Statement](#) provides more information about your personal data rights. It also provides contact information if you have questions or concerns regarding our handling of your personal data.

Acknowledgement

I acknowledge that I understand how IBM is using my Basic Personal Data and I am at least 16 years of age.

[Proceed](#)

[Cancel Sign In](#)

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Step 6: Create a Watson Visual Recognition project

Create a **Visual Recognition project**. (To see this screen, you may need to first navigate to 'Create a Project'.)

The screenshot shows the 'Create a project' page in IBM Watson Studio. There are eight project starters listed:

- Standard**: Work with any type of asset. Add services for analytical assets as you need them.
ASSETS: All
- Data Science**: Analyze data to discover insights and share your findings with others.
ASSETS: Data + Notebooks
- Visual Recognition**: Tag and classify visual content using the Watson Visual Recognition service.
ASSETS: Data + Visual recognition model
Create Project (button)
- Deep Learning**: Build neural networks and deploy deep learning models.
ASSETS: Data + Modeler flow + Model + Experiment
- Modeler**: Build modeler flows to train SPSS models or design deep neural networks.
ASSETS: Data + Modeler Flow + Model + Experiment
- Business Analytics**: Create visual dashboards from your data to gain insights faster.
ASSETS: Data + Dashboard
- Data Engineering**: Combine, cleanse, analyze, and shape data using Data Refinery.
ASSETS: Data + Data Refinery flow
- Streams Flow**: Ingest and analyze streaming data using the Streaming Analytics service.
ASSETS: Data + Streams flow

Step 7: Select the region where you want to build your Watson Visual Recognition service

The closer this region is to your actual location, the faster images can be classified. If you're not sure which to choose, go ahead and select **US South**.

Select a region for Visual Recognition

Select an IBM Cloud [region](#) to create this service in.

If an [instance already exists in the selected region](#), an additional service will not be provisioned.

Select a region

US South

Select

Step 8: Creating your project

Now let's fill in some project details and click **Create**. The IBM Cloud Object Storage, which provides you storage for your images, should be automatically created for you.

New project

Create a project for your custom model. A project is how you organize your resources to work with data and share assets with collaborators.

Define project details

Name

Fashion_Project

85

Description

This project is about using Watson Visual Recognition to identify what style of clothing is in an image. Given an image, Watson Visual Recognition will identify different articles of clothing, types of headwear, or style of footwear is in the image.

2751

Choose project options

Restrict who can be a collaborator



Project will include integration with [Cloud Object Storage](#) for storing project assets and [Watson Visual Recognition](#) for model training and deployment.

Additional tools and services can be added in Project Settings after project creation.

Storage

cloud-object-storage-dsx

Watson Visual Recognition

watson-vision-combined-dsx

Cancel

Create

Step 9: Selecting the built-in models for Watson Visual Recognition

After creating your project, by default, you will land on the page where you can create your own custom models to classify objects -- but let's skip this step. Instead, let's use some existing image classification models that Watson Visual Recognition comes with by default!

To access the built-in models, click on the name of the service, as seen in the red box below:

Step 10: Lots of image classifiers! Choose the General model.

Now you can see all the built-in image classification models that IBM Watson provides! Let's try to **General** model.

The screenshot shows the IBM Watson Studio interface for the Visual Recognition service. The top navigation bar includes 'IBM Watson Studio', 'Services' (selected), 'Watson Services', and the project name 'watson-vision-combined-dsx'. Below the navigation is the title 'Visual Recognition : watson-vision-combined-dsx' with a note 'Associated project : Fashion_Project'. There are two tabs: 'Overview' (selected) and 'Credentials'. The main content area displays six service categories in a grid:

- Custom**: Create custom, unique visual classifiers. Includes a 'Create Model' button.
- General**: Generate class keywords. Includes a 'Test' button, which is highlighted with a red box.
- Faces**: Detect human faces. Includes a 'Test' button.
- Food** BETA: Utilize a specialized vocabulary of over 2000 foods. Includes a 'Test' button.
- Explicit** BETA: Assess objectionable or adult content. Includes a 'Test' button.
- Text** PRIVATE BETA: Automatically detect and extract words. Includes a 'Request Access' button.

Step 11: Try out the General model

To test the General model, click on **Test**.

The screenshot shows the Watson Studio interface for a project named 'Fashion_Project'. The 'Associated Service' is listed as 'watson-vision-combined-dsx'. The 'Test' tab is currently selected. In the 'Summary' section, there is a table with three rows: 'Model ID' (default), 'Status' (Ready), and 'Explanation' (a placeholder for generating class keywords). A search bar labeled 'Search Summary' is also present.

Step 12: Upload your images!

Now you can upload any images you'd like by clicking on **Browse**.

The screenshot shows the Watson Studio interface with the 'Test' tab selected. A file browser dialog is open, prompting the user to 'Drop image files here to let the classifier analyze them' or 'browse to select files'. The 'Open' button is highlighted with a red box. The dialog also shows a list of recent projects and a sidebar with various file types under 'Favorites'.

Step 13: Check out the results!

Once you have uploaded your images, Watson Studio Visual Recognition will tell you what it thinks it found in your images! Beside each class of object (or color, age, etc.), it will also give you a confidence score (between 0 and 1) on how confident it thinks it found that particular object in your image (0 for lowest confidence and 1 for highest confidence).

Projects / Fashion_Project / Loading...

General
Associated Service : watson-vision-combined-dsx

Overview Test Implementation

Filter

Clear results

Threshold	0.0	1
<input type="checkbox"/> Class		
air jacket	0.76	
alarmine red color	0.74	
alp	0.74	
animal	0.74	
anvile (mountain ridge/line)	0.74	
artist's model	0.73	
ash grey color	0.73	
athletic	0.73	
athletic game	0.73	
azure color	0.73	
bachelor	0.73	
beleuking	0.73	
beige color	0.73	
black color	0.73	
blue color	0.73	
boot	0.73	
boots	0.73	
bodylace	0.73	
bottle green color	0.73	
broadcloth (fabric)	0.73	
building	0.73	
bustinessuit	0.73	
canopy	0.73	
charcoal color	0.73	
child	0.73	
clear red color	0.73	
cleaning implement	0.73	
climber	0.73	
cloak	0.73	
close	0.73	
clotheshorse	0.73	
cooking	0.73	
coal black color	0.73	
coat	0.73	
coating	0.73	
contestant	0.73	
cowboy boot	0.73	
crest	0.73	
dark red color	0.73	
descent	0.73	
Downhill Sking	0.73	
emerald color	0.73	
fabric	0.73	
female offspring	0.73	
footwear	0.73	
framework	0.73	
Full Body	0.73	
garment	0.73	
gray color	0.73	
gymnast	0.73	
gymnastics	0.73	
headless	0.73	
hood (head dress)	0.73	
hop (jumping of person/animal)	0.73	
ice mass	0.73	
India red color	0.73	
Indoor Skating Rink	0.73	
indoor	0.73	
jacket	0.73	
kisser	0.73	
laptop coat	0.73	
life preserver	0.73	
light brown color	0.73	
maroon color	0.73	
messing implement	0.73	
natural elevation	0.73	
nature	0.73	
newspaper	0.73	
orange color	0.73	
outwear	0.73	
overgarment	0.73	
pangia	0.73	
parke	0.73	
pink color	0.91	
traveler	0.77	
person	0.77	
backpacker	0.77	
shop	0.77	
clothing	0.66	
booth	0.71	
sofa	0.66	
shoes	0.71	
costing	0.65	
skate board	0.65	
shelter	0.59	
laptop	0.59	
antric's model	0.50	
person	0.51	
newsstand	0.51	
person	0.50	
sidewalk	0.89	
garment	0.73	
ext	0.73	
clothing	0.80	
street	0.72	
street	0.50	
micron color	0.80	
shoe	0.50	
sports equipment	0.79	
tongue (of shoe)	0.56	
shoe	0.50	
orange color	0.80	
redodis orange color	0.75	
person	0.63	
fernwork	0.84	
nature	0.62	
Supporting structure	0.84	
shore	0.62	
steel blue color	0.81	
seashore	0.61	
clothing	0.60	
swab	0.55	
shoes	0.55	
bracelet	0.50	
Full Body	0.50	
indoor	0.53	
voting booth	0.50	
redhead (hair)	0.50	
booth	0.50	
ultramarine color	0.92	
clothesware	0.84	
clothing	0.80	
person	0.73	
clothing	0.60	
person	0.60	
cloak	0.56	
vestibule booth	0.56	
closet	0.56	
photo with bars	0.51	
hood (head dress)	0.50	
headress	0.50	
gray color	0.76	
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person	0.60	

Screenshot of the IBM Watson Studio interface showing the Test tab for a Fashion Project. The interface includes a navigation bar with IBM Watson Studio, Projects, Catalog, Community, Services, Docs, Support, and Manage. Below the navigation bar, it shows the project path: Projects / Fashion_Project / Loading... Associated Service: watson-vision-combined-dsx.

The main area is titled "General" and contains three tabs: Overview, Test (selected), and Implementation. On the left, there is a "Filter" section with a "Threshold" slider set to 0.0. A list of "Class" filters is provided, with "coat" checked and highlighted by a red box. The central area displays "Clear results" for three images:

- photo-1542148517-5387d1b7b959.jpeg: A woman in a dark coat and purple scarf. Predictions include garment (0.74), overgarment (0.73), coat (0.73), pea jacket (0.72), gray color (0.70), charcoal color (0.65), clothing (0.60), hop (jumping of person/animal) (0.50), and sport (0.50).
- photo-1542148426-a7d0430f6a06.jpeg: A woman in a red coat. Predictions include maroon color (0.98), overgarment (0.84), garment (0.84), coat (0.82), clothing (0.80), fabric (0.80), pea jacket (0.57), coating (0.56), sheepskin coat (0.54), raincoat (0.53), outerwear (0.52), trench coat (0.51), jacket (0.50), and wrapping (0.50).
- photo-1493568000180-ca2fb70ddcba.jpeg: A man in a red puffy jacket and backpack. Predictions include Indian red color (0.90), traveler (0.77), person (0.77), backpacker (0.77), clothing (0.60), orange color (0.55), waterproof (0.53), fabric (0.53), life preserver (0.51), rescue equipment (0.51), overgarment (0.51), garment (0.51), air jacket (0.51), coat (0.51), and parka (0.50).

Step 15: Share your results with us on Twitter!

Follow us on Twitter and send us some of your funniest and most interesting results you found with IBM Watson Visual Recognition!

[Follow Polong Lin](#)

[Follow Alex Aklson](#)

I just learned how to classify images using @IBMWatson in this #Coursera course by @polonglin and @aklson_DS !

barack_obama

Face 1

Age: 43 to 47

Male

Who's in this photo?

+

Tweet

✓ Complete

