Two commands:

aws rekognition detect-labels --image "S3Object={Bucket=dqueiserbucket1,Name=DSC02694.jpg}" --region us-east-2

This command does work

aws s3 ls

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AWS Rekognition is a cloud-based computer-vision service that has been around since 2016.

* Computer-vision is a field that works with machine-learning via digital images and videos, or as they term it "dealing with how computers can be made to gain a high-level understanding".
* Computer-vision includes methods for acquiring, processing, analyzing and understanding digital images, and extracting high-dimensional data from those images and videos

Rekognition is available as a service on the AWS Console (which I will show), an API which can be called, and also via the AWS Command-Line Interface (CLI)

Rekognition has a number of computer-vision capabilities, falling into two categories:

1. Pre-trained algorithms that operate on data collected by Amazon
2. Algorithms that users can train on a custom dataset

Pre-trained algorithms:

1. Object and scene detection
2. Celebrity Recognition: Just what it sounds like
3. Facial attribute detection: identifies attributes such as gender, age-range, emotions, and facial features (facial hair, glasses, etc.)
4. People pathing: done using a video, such as sports players in a game video
5. Text detection: Just what it sounds like
6. Image moderation, or unsafe content detection

User-trained algorithms using custom datasets:

1. Search Faces, using a database of images: think a personal family tree
2. Face-based user verification: maybe unlock your front door?

Controversies?

1. Rekognition has also been used by law-enforcement, with some controversy. The ACLU has gotten involved in a number of cases.
2. Also, some gender/race biases have been suggested, indicating that the software does better on male faces and is less reliable on dark-skinned females.

\*Worth noting that the software needs images/videos to be 5MB or smaller (or 15MB if on S3).

Most high-resolution cameras (which is most new ones) have considerably larger file-sizes

to capture more data.

My trials with the CLI - getting an access error

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detect-labels (basic object-detection)

compare-faces (takes two images as input)

API returns JSON format and other (such as URL)

Advertising (obviously), traffic flow, sports