

Climbing Terminology

- Route: The path a climber takes on a rock that often has a defined difficulty
- **Grade**: The defined difficulty, many different systems (ex. 5.10a, V3, 6a)
- **Sport, Bouldering, Trad**: Different types of climbing that require different gear and knowledge
- **<u>Leading, Top Roping</u>**: Different styles of climbing with a rope, leading you are putting the rope up and top roping the rope is already up





climbing-data

Project Purpose:

Analyze my personal outdoor climbing data pulled from mountainproject.com. Track improvement in my climbing and work towards my climbing goals.

Technical Goals and Skills:

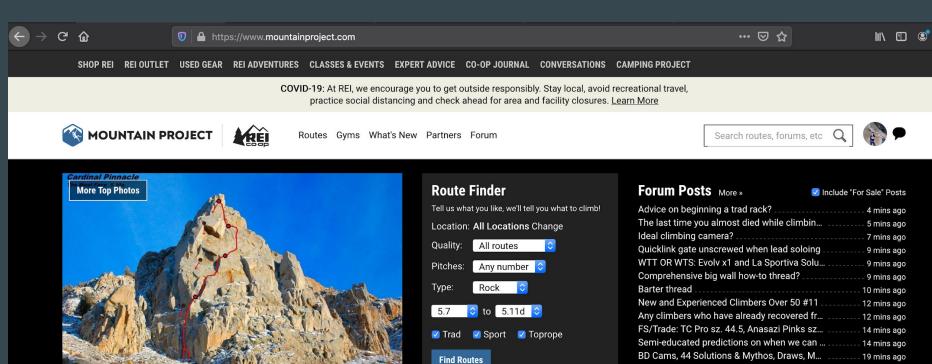
- Programmatically pulling data from an api and caching data based on the api recommendations.
- Organized and compartmentalized data pipeline.
- · Apply domain knowledge to transform data.
- Visualize data to work towards purpose.

Future Goals and Project Improvements:

- Join in more data sources
 - Area specific data type of rock, altitude, conditions.
 - Weather data for climbing area for specific dates.
 - Expand to include indoor climbing data.
 - o Add in tick data from multiple users, need to decide how to get consent. Might be only analyzing friend's data.
- Analyze photos of climbs included in route data, see what feature can be created from them.
- · Analyze notes on ticks data.
- Add route prediction. Need more data and more features to achieve this.

Mountain Project

West Face (5.10a)



WTB: #2 Metolius mastercam

Tips for Denali

19 mins ago

21 mins ago

Mountain Project: Route Page

- Name
- Grade (Difficulty)
- Type
- Height
- Description
- Photos
- Location
- Comments

All Locations > Oregon > Central Oregon > Smith Rock > (k) The Dihedrals

Crossfire 🗷

Sport, 115 ft Alan Watts 5/84 Page Views: 10.556 total · 61/month Karsten Duncan on Jan 26, 2006 Kevin MP. Micah Klesick, Nate Ball

You & This Route 36 Opinions

Your To-Do List: Add To-Do · View List

Your Star Rating:

Your Difficulty Rating: -none- Change

Your Ticks: Add New Tick

Access Issue: Smith Rock CLOSED for COVID-19 Details >

Description

Crossfire is a striking line that requires a variety of climbing skills from handjams to tiny crimp cruxes and hellacious endurance. Slightly overhanging the entire way, the climbing is spectacular. Fantastic jams down low on Karate Crack lead to classic Smith face climbing up higher on nubins, pockets, and crimps. Several semi-rests make the marathon pitch seem plausible but still pumpy and interesting.

The route begins up Karate crack. As Karate Crack arches right, leave the crack and continue straight up the face. After placing a large cam in a pod above the crack you'll enter the sport part of the climb. This climb is commonly said to have two cruxes. One down low is reachy, thin, and crimpy but short while up higher you'll go through a sequential endurance sequence. There are several runout sections especially up high as you traverse to the left to finish. Mercifully the climbing is easier and the wall is steep but more than one climber has experienced an exhilarating fall there.

Improve This Page > Add To Page >



Mountain Project: User Profile





Routes Gyms What's New Partners Forum

Search routes, forums, etc





Hanna Landrus Seattle

Edit Profile

Contact Hanna

Member Since Jan 25, 2018 Last Visit: 28 mins ago

5 Points
Point Rank: #33,910 Details✔

More Info

Out There (61) Contributions (1) Community (13)

To-Do List Sort & Filter All 29

	Southern Nevada > > Fin du Monde Dr > Dirty Rail Area	***** 34	V7 Boulder	To-Do
	Central Oregon > > (I) Christian B > Christian Brothers	★★★ 334	5.10b Sport	To-Do
Portrait of a Jigsaw Burger	Central Region > Frenchman Coule > Clearview Crag	***** 17	5.11a/b Sport	To-Do
Stemmin' Ms	Central Region > Frenchman Coule > M & M Wall	**** 20	5.12a Sport	To-Do
A Girl's Best Friend	Central-W Casca > > Exit 38: Far Side > Gritscone	**** 35	5.11a Sport	To-Do
Easy Money	Central-W Casca > > Exit 38: Decept > Kiosk Rock	***	5.11a PG13 Sport	To-Do

Ticks View All 32

Nov 23, 2019 · Lead / Onsight.	Central-W Casca > > Overhaul Area > Slabbage Patch	★★ ★ 29	5.9 Sport	√ 1
Controlled bleeding Nov 23, 2019 · Lead / Onsight.	Central-W Casca > > Overhaul Area > Relief Camp	**3	5.10b Sport	V 1
Shelf Service Nov 23, 2019 · Lead / Flash.	Central-W Casca > > Overhaul Area > Relief Camp	★★ 23	5.10a Sport	V 1
Opening Act	Central-W Casca > > Exit 32 / Littl > World Wall	★★ 47	5.9 Sport	√ 1

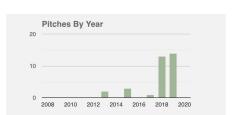
Mountain Project: User Profile Tick Stats

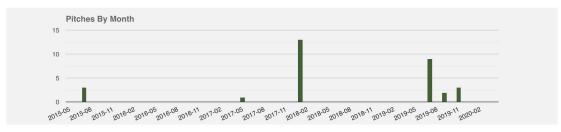
Desired Improvements:

- Show "Rock Routes by Grade" by style (lead, toprope) and more detailed grade
- Be able to see improvement in grades

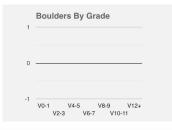
Tick Breakdown

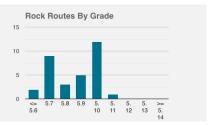
	Pitches	Routes	Days Out
90 Days	0	0	0
Last Year	14	14	4
5 Years	31	31	10
All Time	33	32	11











Mountain Project: APIs





Routes Gyms What's New Partners Forum

Search routes, forums, etc



Mountain Project Data API

Mountain Project provides a simple API with access to certain limited data. All of the data returned by the API is already available on publicly available pages on the Mountain Project site. Returned data is json.

Method: getUser

Returns general user information.

Required Arguments:

key - Your private key

userId - The ID of the user to return

email - The email address of the user to return

* Either userId or email is required, but not both.

Example:

https://www.mountainproject.com/data/get-user?email=EMAIL&key=YOUR_KEY_HERE

Notes:

All returned fields will always be defined, but many are optional for the user and could be empty.

Private Key

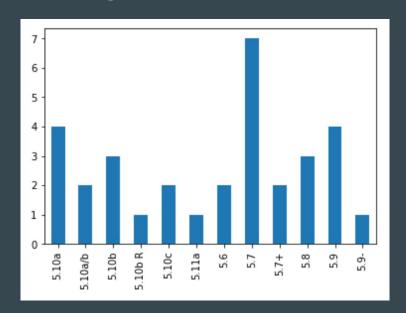
Sign up or log in to get your key

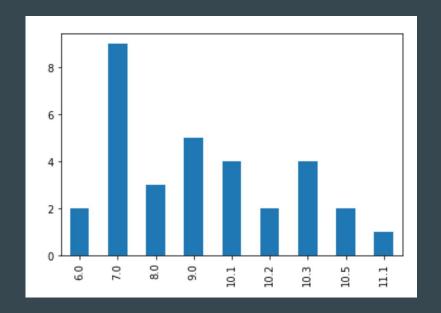
All requests require a private key that identifies you. Usage of the API is at Mountain Project's sole discretion and may be discontinued at any time. We track every request — be sure your code caches data and does not make excessive requests or your account will be deactivated.

Challenges

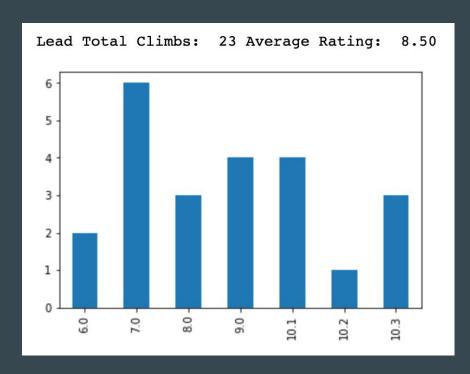
- Climbing grades are weird
 - Played with different ways to normalize them
- Didn't have much of my own data in Mountain Project
 - o 2018 Borrowed a friend's user id
 - Started logging my own climbs for the future
 - o 2020 I have a bit more so more useful now
- New to calling APIs
 - Learned about pagination
 - Learned about following API recommendation on caching and usage
- I was much more comfortable in a notebook environment
 - Worked on creating a hybrid project with most of the logic and guts of the program in files but visualizations in a notebook

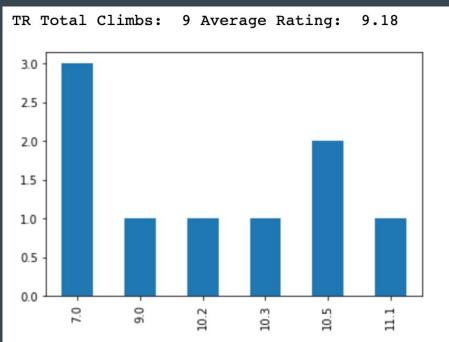
Climbing Grades



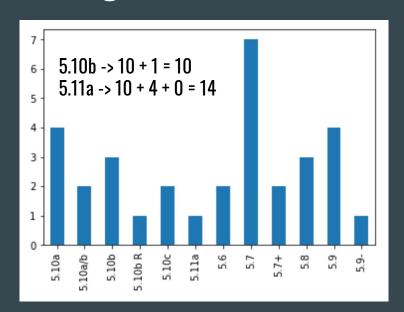


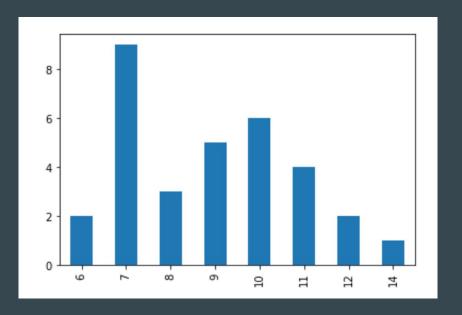
Climbs by Grades and Style





Climbing Grades

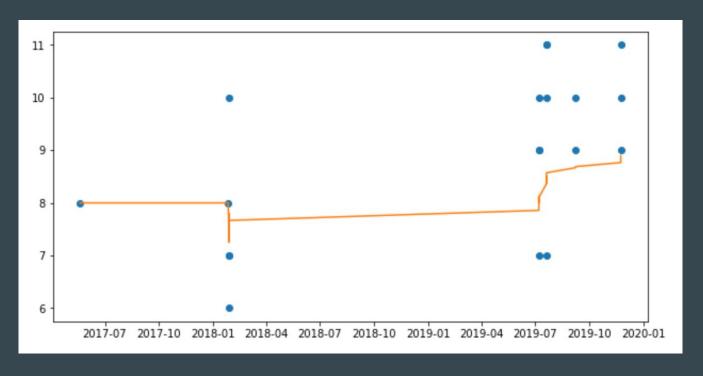




Some improvement over time...

Each blue dot is one climb.

The orange line is the rolling average



Conclusions:

1. Climbing grades are weird

2. I should climb more once this is over

Thank You @Hanna on slack

Links:

Project: https://github.com/hlandrus/climbing-data

API: https://www.mountainproject.com/data

Photographer: https://gwenshoemaker.com