うわっ…私のコマンド、遅すぎ…?

Rust再実装コマンドでターミナルをもっと便利に

ぱうえる (甲本健太)

Github: <a>@kentakom1213

Rustとは

- C/C++並に速く、安全性が高い言語
- 主な用途
 - コマンドラインツール
 - Webアプリケーション
 - OSの開発

公式:<u>www.rust-lang.org/ja</u>



今回紹介するコマンドたち

前	後	コマンドの意味
find	fd	ファイルを探す
grep	ripgrep	ファイルの中身を検索する
ls	exa	ディレクトリの中を見る
cat	bat	ファイルの中を見る

$\texttt{find} \rightarrow \texttt{fd}$

ファイルを探す

高速!

README.md (7569個) を計測

- find : 8.0 sec
- fd : 0.75 sec
- デフォルトで色付けあり
- デフォルトで .gitignore を無視

公式: github.com/sharkdp/fd

```
> find . -name "README.md"
 ./Animaker/README.md
 ./nuinfo-seminar/README.md
  ./nuinfo-seminar/.nuinfo-seminar/lib/python3.10/site-pack
 ./nuinfo-seminar/.nuinfo-seminar/lib/python3.10/site-pack
 ./nuinfo-seminar/.nuinfo-seminar/lib/python3.10/site-pack
 ./old rust env/README.md
 ./Cica/README.md
 ./zero-one-seminar/deep-learning-from-zero/README.md
 ./zero-one-seminar/practice-datavisualization/.practice-datavisualization/.practice-datavisualization/.practice-datavisualization/.practice-datavisualization/.practice-datavisualization/.practice-datavisualization/.practice-datavisualization/.practice-datavisualization/.practice-datavisualization/.practice-datavisualization/.practice-datavisualization/.practice-datavisualization/.practice-datavisualization/.practice-datavisualization/.practice-datavisualization/.practice-datavisualization/.practice-datavisualization/.practice-datavisualization/.practice-datavisualization/.practice-datavisualization/.practice-datavisualization/.practice-datavisualization/.practice-datavisualization/.practice-datavisualization/.practice-datavisualization/.practice-datavisualization/.practice-datavisualization/.practice-datavisualization/.practice-datavisualization/.practice-datavisualization/.practice-datavisualization/.practice-datavisualization/.practice-datavisualization/.practice-datavisualization/.practice-datavisualization/.practice-datavisualization/.practice-datavisualization/.practice-datavisualization/.practice-datavisualization/.practice-datavisualization/.practice-datavisualization/.practice-datavisualization/.practice-datavisualization/.practice-datavisualization/.practice-datavisualization/.practice-datavisualization/.practice-datavisualization/.practice-datavisualization/.practice-datavisualization/.practice-datavisualization/.practice-datavisualization/.practice-datavisualization/.practice-datavisualization/.practice-datavisualization/.practice-datavisualization/.practice-datavisualization/.practice-datavisualization/.practice-datavisualization/.practice-datavisualization/.practice-datavisualization/.practice-datavisualization/.practice-datavisualization/.practice-datavisualization/.practice-datavisualization/.practice-datavisualization/.practice-datavisualization/.practice-datavisualization/.practice-datavisualization/.practice-datavisualization/.practice-datavisualization/.practice-datavisualization/.practice-da
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 ./zero-one-seminar/practice-datavisualization/README.md
 ./zero-one-seminar/2022-f-DeepLearning-02/dl-seminar/lib
 ./zero-one-seminar/2022-f-DeepLearning-02/README.md
  ./zero-one-seminar/2022-f-DesignPattern/3.template_method
./zero-one-seminar/2022-f-DesignPattern/README.md
 ./zero-one-seminar/2022-f-DesignPattern/2.adapter/kotlin/
 ./zero-one-seminar/zero-one-semi-Marp-theme/README.md
 ./zero-one-seminar/2022-f-DeepLearning-01/README.md
 ./dotfiles/README.md
 ./nuocw-system-2021 backup/README.md
 ./Python/cpython_source_code/README.md
  ./practice-datavisualization/.practice-datavisualization/
  ./practice-datavisualization/.practice-datavisualization/
  ./practice-datavisualization/.practice-datavisualization/
 ./practice-datavisualization/.practice-datavisualization/
 ./practice-datavisualization/.practice-datavisualization/
  ./practice-datavisualization/.practice-datavisualization/
```

★ fd -HI README.md nu_totp_autologin-master/README.md nuocw-system-2021/README.md docker clientside env/README.md atcoder problem parser/README.md docker clientside env/workspace/nuocw-release backup/REAI docker clientside env/workspace/nuocw-release backup/node docker clientside env/workspace/nuocw-release backup/node docker_clientside_env/workspace/nuocw-release_backup/node docker clientside env/workspace/nuocw-release backup/node docker clientside env/workspace/nuocw-release backup/nod€ docker clientside env/workspace/nuocw-release backup/node docker clientside env/workspace/nuocw-release backup/node docker clientside env/workspace/nuocw-release backup/node docker clientside env/workspace/nuocw-release backup/node docker clientside env/workspace/nuocw-release backup/nod€ docker clientside env/workspace/nuocw-release backup/node docker clientside env/workspace/nuocw-release backup/node docker clientside env/workspace/nuocw-release backup/node docker clientside env/workspace/nuocw-release backup/node docker_clientside_env/workspace/nuocw-release_backup/node docker_clientside_env/workspace/nuocw-release_backup/node docker_clientside_env/workspace/nuocw-release_backup/node docker_clientside_env/workspace/nuocw-release_backup/node docker_clientside_env/workspace/nuocw-release_backup/node

docker_clientside_env/workspace/nuocw-release_backup/node

grep → ripgrep

ファイルの中身を検索する

• 100倍程度高速!

1434ファイルの中から "アルゴリズム" という文字列を検索

o grep : 0.062 sec

o ripgrep : 3.8 sec

みやすい!

公式: github.com/BurntSushi/ripgrep

grep コマンド

```
> grep -r "アルゴリズム" .
<u>./abc_training/C/C_IncresingSequense.py:# 0(n^2) のアルゴリズム、部分点はもらえる</u>
./Sakumon/Product of Range/Product of Range ans.md:ある数列の連続する部分列の総和を高速に処理
./Sakumon/Product of Range/Product of Range ans.md:累積和アルゴリズムと同様に、前処理が $0(N
                            "#<sup>¯</sup>高速累乗計算アルゴリズム\n",
./algorithm/repeated squeres.ipynb:
./algorithm/repeated squeres.ipynb:
                             "0(log(n))のアルゴリズムは強い\n",
./algorithm/LCS.py:### アルゴリズム ###
./algorithm/binary_tree.ipynb: "- Pythonによるアルゴリズム入門 (酒井和哉)"
./algorithm/README.md:# アルゴリズムレパートリー
./algorithm/README.md:競プロでこれまでに勉強したアルゴリズムと、これから挑戦したいもの
./algorithm/README.md:一部アルゴリズムと呼べるかあやしいものもあります。
./algorithm/README.md:参考:[競技プログラミングでの典型アルゴリズムとデータ構造](https://alg
./algorithm/README.md:## アルゴリズム
./algorithm/README.md:### ソートアルゴリズム
./algorithm/README.md:### 探索アルゴリズム
./algorithm/README.md:- [ ] カラツバ法 (高速乗算アルゴリズム)
./algorithm/rust binary tree/README.md:- [二分木 - Rustではじめるデータ構造とアルゴリズム(第
./algorithm/PartitionFunction.ipynb: "# 分割数を求めるアルゴリズム\n",
./paiza/jack/in.txt:競プロ経験者の方だけでなく、「やってみたいけど敷居が高い...」とか「アルコ
./paiza/jack/in.txt:内容は「最近勉強したアルゴリズム」「こだわりのエディタ」「コンテスト前の
./ac-library/document ja/string.html:文字列アルゴリズム詰め合わせです。
./ac-library/document ja/string.html:文字列に関する様々なアルゴリズムが入っています。
./ac-library/document_ja/appendix.html:C++初心者には難しいかもしれない機能を表すマークです
が該当します。
./ac-library/document_ja/modint.html:自動でmodを取る構造体です。AC Libraryはmodintを使わた
./ac-library/document ja/math.html:数論的アルゴリズム詰め合わせです。
./notebooks/graph_algorithms.ipynb: "# アルゴ式 グラフアルゴリズム"
```

ripgrep コマンド

```
ゝ rg "アルゴリズム"
notebooks/graph_algorithms.ipynb
    "# アルゴ式 グラフアルゴリズム"
algorithm/PartitionFunction.ipynb
     "# 分割数を求めるアルゴリズム\n",
algorithm/rust binary tree/README.md
4:- [二分木 - Rustではじめるデータ構造とアルゴリズム(第1回)](https://laysakura.github.io/2
algorithm/README.md
1:# アルゴリズムレパートリー
2:競プロでこれまでに勉強したアルゴリズムと、これから挑戦したいもの
3:一部アルゴリズムと呼べるかあやしいものもあります。
5:参考:[競技プログラミングでの典型アルゴリズムとデータ構造](https://algo-logic.info/competi
8:## アルゴリズム
10:### ソートアルゴリズム
18:### 探索アルゴリズム
67:- [ ] カラツバ法 (高速乗算アルゴリズム)
algorithm/LCS.py
11:### アルゴリズム ###
algorithm/binary_tree.ipynb
     "- Pythonによるアルゴリズム入門 (酒井和哉)"
algorithm/repeated_squeres.ipynb
    "# 高速累乗計算アルゴリズム\n",
```

ls → exa

ディレクトリの中を表示する

- デフォルトで色付けあり
- 絵文字を設定できる 😜
- tree形式でも表示できる

公式: github.com/ogham/exa

```
> ls −1
Dockerfile.django
LOG.md
README.md
blog
db.sqlite3
django_blog
docker-compose.yml
manage.py
requirements.txt
```

```
> exa -1 --icons
⊵blog

    db.sqlite3

    □ django blog

docker-compose.yml
■ Dockerfile.django
MILOG.md
amanage.py
README . md
requirements.txt
```

$cat \rightarrow bat$

ファイルの中身を表示する

- まるでエディタのようにファイルを見れるコマンド
- デフォルトでシンタックスハイライトあり

公式: github.com/sharkdp/bat

```
> cat solver.py
def solve(arr, cell):
   """単純なdfsで解く"""
   # 求まったとき
   if cell == 81:
       yield arr[:][:]
       return
   i, j = cell//9, cell%9
   if arr[i][j] == 0:
       #順に代入する
       for n in range(1, 10):
           # --- 行 ---
           if n in arr[i]:
               continue
           # --- 列 ---
           is in col = False
           for r in range(9):
               is_in_col |= arr[r][j] == n
           if is in col:
               continue
           # --- ブロック ---
           is in block = False
           for r in range(i//3*3, i//3*3+3):
               for c in range(j//3*3, j//3*3+3):
                   is_in_block |= arr[r][c] == n
           if is_in_block:
               continue
           # 条件をみたしていたとき
           arr[i][j] = n
           yield from solve(arr, cell+1)
           arr[i][j] = 0
   else:
       yield from solve(arr, cell+1)
def main():
   arr = [list(map(int, input().split())) for _ in range(9)]
   for ans in solve(arr, 0):
       print()
       for row in ans:
           print(*row)
   solve(arr, 0)
if __name__ == "__main__":
   main()
```

```
> bat solver.py
        File: solver.py
        def solve(arr, cell):
            """単純なdfsで解く"""
            # 求まったとき
            if cell == 81:
                yield arr[:][:]
            i, j = cell//9, cell%9
            if arr[i][j] == 0:
                for n in range(1, 10):
                    if n in arr[i]:
                    is_in_col = False
                    for r in range(9):
                        is_in_col |= arr[r][j] == n
                    if is_in_col:
                    is in block = False
                    for r in range(i//3*3, i//3*3+3):
                        for c in range(j//3*3, j//3*3+3):
                            is_in_block |= arr[r][c] == n
                    if is_in_block:
                    # 条件をみたしていたとき
                    arr[i][j] = n
                    yield from solve(arr, cell+1)
                    arr[i][j] = 0
                yield from solve(arr, cell+1)
        def main():
            arr = [list(map(int, input().split())) for _ in range(9)]
            for ans in solve(arr, 0):
                print()
                for row in ans:
                    print(*row)
            solve(arr, 0)
        if __name__ == "__main__":
            main()
```

その他おすすめツール

- xcp: cp コマンドの再実装
- delta: diff コマンドの再実装
- Starship:コマンドラインを可愛くできるツール

参考

• <u>awsome-alternatievs-in-rust</u>