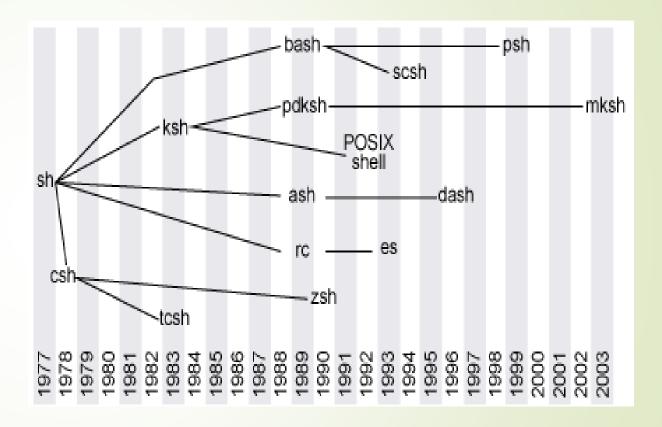
Trabalho sobre a Linguagem Shell Script

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Professor: Francisco Sant'Anna

Origens e Influências

- Linguagem Shell Script.
- Sistemas Operativos baseados em GNU/Linux.
- Ken Thompson, 1971.
- Stephen Bourne, 1977.



Classificação da Linguagem

- Imperativo: Estrutura de repetição, estruturas de decisão, mudança de comportamento de variáveis,
- Procedural: Pode-se criar e reutilizar sub-rotinas a qualquer momento.

```
smsf@martins:~$ a=1
smsf@martins:~$ echo $a
1
smsf@martins:~$ a="teste"
smsf@martins:~$ echo $a
teste
smsf@martins:~$ a=1.89
smsf@martins:~$ echo $a
1.89
```

```
#!/usr/bin/env bash

# Extraindo dados

python t_realiza_2015.py

# Caminho

path1=$(pwd)

# Fazendo split do arquivo

pasta="t_realiza_2015"

arquivo_original="t_realiza_1.csv"

arq_final="t_realiza_2015"

source /home/martins/Documentos/bd_enem_dados_2015/t_funcoes_shell/t_func_split.sh

split_arquivo $path1 $pasta $arquivo_original $arq_final
```

```
#!/usr/bin/env bash

function split_arquivo() {

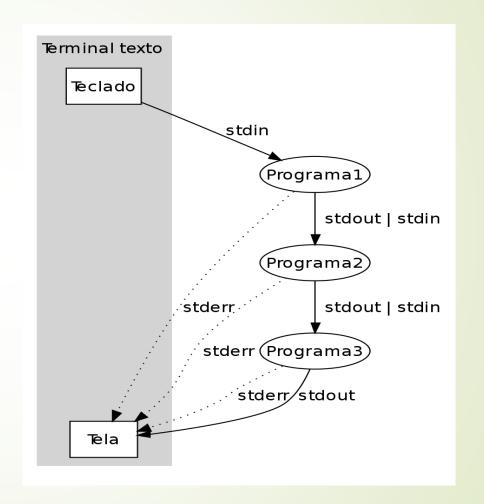
# Contando quantas linhas tem no arquivo
count=$(wc -1 $arquivo_original | awk '{print $1}')

# Regra para fazer o split do arquivo
if [ "$count" -lt 10000000 ]; then
split -d -a6 -1 10000000 --additional-suffix=.csv $arquivo_original $path1/$pasta/$arq_final
elif [ "$count" -ge 10000001 ] && [ "$count" -lt 80000000 ]; then
split -d -a6 -l 3000000 --additional-suffix=.csv $arquivo_original $path1/$pasta/$arq_final
elif [ "$count" -ge 80000001 ]; then
split -d -a6 -l 5000000 --additional-suffix=.csv $arquivo_original $path1/$pasta/$arq_final
fi

fi
```

Funcionalidade: Pipe

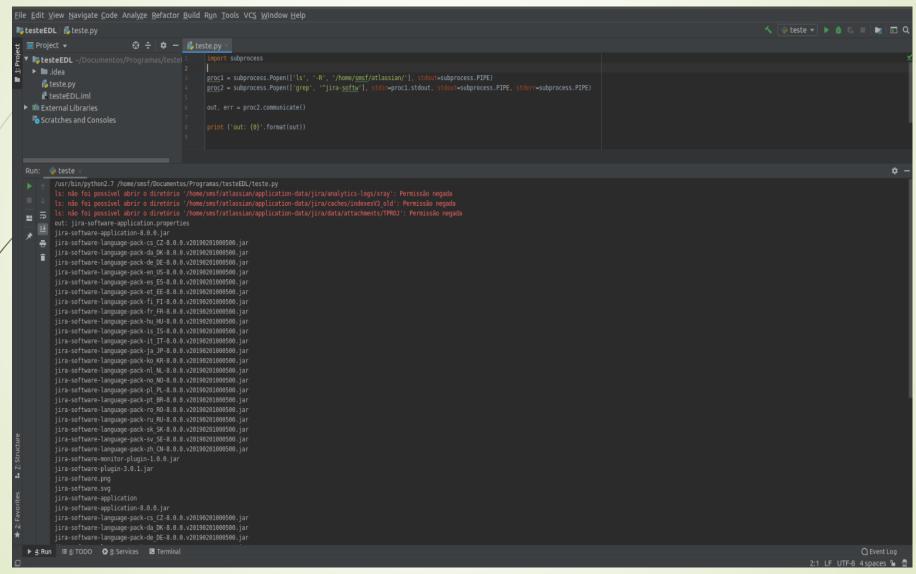
- Encadeamento de comandos.
- Stdout torna-se Stdin de outro programa.
- Stderr: recebe um erro do encadeamento.



Funcionalidade: Pipe - Shell Script

```
Atividades ■ X-terminal-emulator ▼
                                                                                                                                                                                                                                               dom, 1 de set, 16:24
                                                                                                                                                                                                                                                  smsf@martins: ~
  nsf@martins:~$ ls -R | grep ^jira-softw
  isignaltus. 3 cs. n. n. grep. juleżotki
:: não foi possível abrir o diretório './atlassian/application-data/jira/analytics-logs/xray': Permissão negada
:: não foi possível abrir o diretório './atlassian/application-data/jira/caches/indexesV3_old': Permissão negada
:: não foi possível abrir o diretório './atlassian/application-data/jira/data/attachments/TPROJ': Permissão negada
  .ra-software-application-8.0.0.jar
.ra-software-language-pack-cs_CZ-8.0.0.v20190201000500.jar
.ra-software-language-pack-da_DK-8.0.0.v20190201000500.jar
.ra-software-language-pack-de_DE-8.0.0.v20190201000500.jar
   ra-software-language-pack-es_ES-8.0.0.v20190201000500.jar
ra-software-language-pack-et_EE-8.0.0.v20190201000500.jar
ra-software-language-pack-fl_FI-8.0.v20190201000500.jar
   ra-software-language-pack-hu_HU-8.0.0.v20190201000500.jar
ra-software-language-pack-is_IS-8.0.0.v20190201000500.jar
ra-software-language-pack-it_IT-8.0.0.v20190201000500.jar
 lra-software-language-pack-ko_KR-8.0.0.v20190201000500.jar
lra-software-language-pack-nl_NL-8.0.0.v20190201000500.jar
lra-software-language-pack-no_N0-8.0.0.v20190201000500.jar
 tra-software-language-pack-n0_nv-s.0.0.v20190201000300.jar
tra-software-language-pack-pt_BR-8.0.0.v20190201000500.jar
tra-software-language-pack-ro_RO-8.0.0.v20190201000500.jar
tra-software-language-pack-ro_RO-8.0.0.v20190201000500.jar
   ra-software-language-pack-sv_SE-8.0.0.v20190201000500.jar
ra-software-language-pack-zh_CN-8.0.0.v20190201000500.jar
ra-software-monitor-plugin-1.0.0.jar
   ra-software-plugin-3.0.1.jar
ra-software.png
ra-software.svg
ra-software-application
   ra-software-language-pack-cs_CZ-8.0.0.v20190201000500.jar
ra-software-language-pack-da_DK-8.0.0.v20190201000500.jar
ra-software-language-pack-de_DE-8.0.0.v20190201000500.jar
   ra-software-language-pack-es_ES-8.0.0.v20190201000500.jar
ra-software-language-pack-et_EE-8.0.0.v20190201000500.jar
ra-software-language-pack-fi_FI-8.0.0.v20190201000500.jar
   ra-software-language-pack-hu_HU-8.0.0.v20190201000500.jar
ra-software-language-pack-is_IS-8.0.0.v20190201000500.jar
ra-software-language-pack-it_IT-8.0.0.v20190201000500.jar
   ra-software-language-pack-ko_KR-8.0.0.v20190201000500.jar
ra-software-language-pack-nl_NL-8.0.0.v20190201000500.jar
ra-software-language-pack-no_NO-8.0.0.v20190201000500.jar
    a-software-language-pack-pl_PL-8.0.0.v20190201000500.j
   ra-software-language-pack-pt_BR-8.0.0.v20190201000500.jar
     a-software-language-pack-ro_RO-8.0.0.v20190201000500.ja
   ra-software-language-pack-ru_RU-8.0.0.v20190201000500.jar
     a-software-language-pack-sv_SE-8.0.0.v20190201000500.jar
```

Funcionalidade: Pipe em Python



Funcionalidade: Pipe em Java

```
File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help
projetoshell | src | main | java | Principal

✓ Principal ▼ ▶ # C. ■
   Project ▼ ② ÷ □ m pom.xml × ③ Principal.java >
                                         mimport java.io.BufferedReader
                                                                                                                                                                                                                      S № ± + > m # 6 ÷
                                                                                                                                                                                                                      ▼ # projeto-shell
                                                                                                                                                                                                                        ► Ma Lifecycle
                                                                                                                                                                                                                        ► R Plugins
                                                                                                                                                                                                                        ▶ Mi Dependencies
          resources
      ▶ ■ test
                                            public static void main(String[] args) throws IOException {
      projetoshell.iml
                                                     List<String> cmdList = new ArrayList<String>();
    Scratches and Consoles
                                                     ProcessBuilder processBuilder = new ProcessBuilder(cmdList);
                                                     p = processBuilder.start();
                                          Principal main()
           jira-software-application.properties
          jira-software-language-pack-cs_CZ-8.0.0.v20190201000500.jar
           jira-software-language-pack-da_DK-8.0.0.v20190201000500.jar
           jira-software-language-pack-de_DE-8.0.0.v20190201000500.jar
          jira-software-language-pack-en_US-8.0.0.v20190201000500.jar
          jira-software-language-pack-es_ES-8.0.0.v20190201000500.jar
          iira-software-language-pack-et EE-8.0.0.v20190201000500.jar
          jira-software-language-pack-fr FR-8.0.0.v20190201000500.jar
          jira-software-language-pack-hu HU-8.0.0.v20190201000500.jar
          jira-software-language-pack-is_IS-8.0.0.v20190201000500.jar
          jira-software-language-pack-it_IT-8.0.0.v20190201000500.jar
          jira-software-language-pack-ja_JP-8.0.0.v20190201000500.jar
  ▶ 4: Run ≣ 6: TODO • 8: Services     Terminal   ■ 0: Messages
 Build completed successfully with 3 warnings in ... (12 minutes ago)
                                                                                                                                                                                                                                23:1 LF UTF-8 4 spaces % 5
```

Referências

- The Python Standard Library. Disponível em: https://docs.python.org/3.4/library/subprocess.html. Acesso em: 26 ago. 2019.
- What is subprocess in Python?. Disponível em: https://www.quora.com/What-is-subprocess-in-Python. Acesso em: 30 ago. 2019.
- Understanding Java Process and Java ProcessBuilder em: https://www.developer.com/java/data/understanding-java-process-and-java-processbuilder.html. Acesso: 30 ago. 2019.