

Research & Engineering

A Sample Literate document



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1 Code foundations

Some inline code examples This is inline C++ code `int main()`

This is inline Rust code `use chrono::\{Utc, DateTime\};`

This is bash inline code `\$\{\#parameter\}`

This is python inline code `ω_x = [1, 2, 3]`

Another Rust one liner here `use rand::\{distributions::Uniform, Rng\};`

Other inline code examples:

- XML: `<tag>text</tag>`
- Shell: `echo -e "test"`
- Elisp: `(+ 1 2)`
- Rust: `use std::process`
- JavaScript: `console.log(1 + 2)`
- GO: `var palette = []color.Color{color.White, color.Black}`
- Python: `[bin(i)[2:].zfill(8) for i in range(11)]`

1.1 A python code snippet

```
# Note:  $\pi = \lim_{n \rightarrow \infty} \frac{P_n}{d}$ 
title = "Hello World"

sum = 0
for i in range(10):
    sum += i
```

Listing 1: A Python snippet

1.2 A L^AT_EX code snippet

```
% This is a TeX comment but is not disregarded because it's inside

\documentclass{article}

\usepackage{minted}

\begin{document}
```

```
Dont use $$ in \LaTeXe! % It's weird!
\end{document}
```

1.3 JSX code snippet

```
const Component = () => {
  return <div>test</div>
}
```

Listing 2: JSX Code block

2 Directory Listing

Listing of files in a directory as a tree.

Users/sampathsingamsetty/sw/uwal/projects/openid/OpenID_V2

```

|
├── oauth/
├── transformations/
├── aaa/
├── log-transformations/
├── lib/
├── conf/
└── gatewayscripts/
    ├── js-files/
    │   ├── new/
    │   └── backup/
    
```

The same in a different format here

```

1 /local/OpenID_V2/
2
3  oauth/
4

```

```

5  transformations/
6
7  aaa/
8      CIAMGuestAuthentication.xsl
9
10 log-transformations/
11
12 lib/
13     Commons.js
14
15 conf/
16     opi-metadata.xml
17
18 gatewayscripts/
19
20     tokenProcessing.js
21     CIAMGuestAuthenticator.js

```



The listed files under their respective parent directories were either changed or introduced!

- `CIAMGuestAuthentication.xsl` - "New XSL module to handle custom Authentication in AAA"
- `Commons.js` - "Existing lib module with a function update"
- `opi-metadata.xml` - "Existing configuration updated with Ping login url"
- `tokenProcessing.js` - "Existing module updated with new processing rules"
- `CIAMGuestAuthenticator.js` - "New module to call Ping login"

3 A colorful table

We can customize the style of an org-mode table when exported to Latex.

Type	Stiffness in N/mm
Two bearings SKF in radial dir. (supplier)	167 800
Measurement bearings + rotor + device	8398
Measurement device	14 753
Calculation rotor + bearings	19 500
Sim. Rotor + “bearings” (package solid)	50 900
Sim. Rotor + “joints” (package solid)	33 320
Sim. Shaft + “bearings” (without package)	12 000
Sim. Shaft + “bearings” 10 mm	20 030