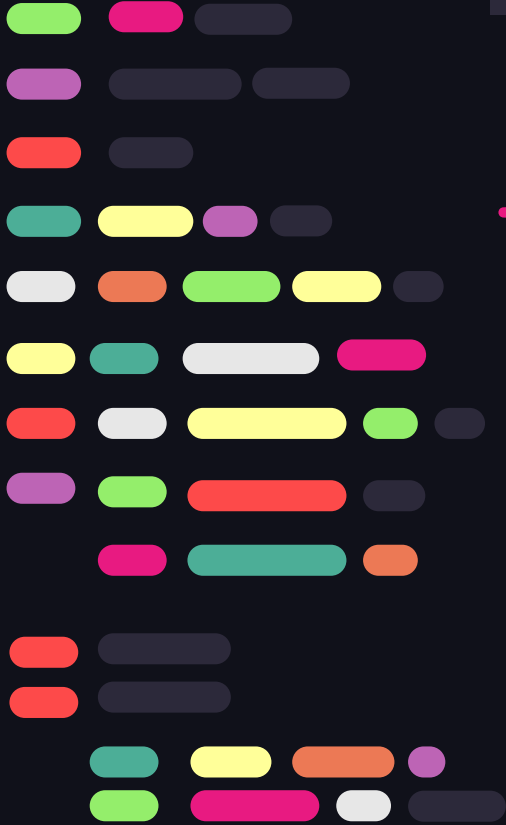




# Introduction to Replit

< a game-changer in coding and  
development >

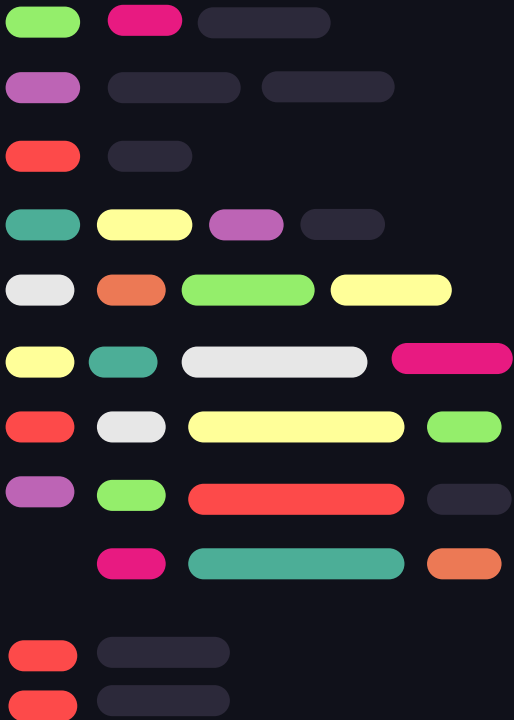




# What is Replit?

More than just an IDE:

- Collaborative coding platform
- Requires no setup, fully hosted online
- Supports multiple programming languages





# Key Features – Collaboration

01 Real-time collaborative coding

02 Similar to Google Docs for developers

03 Ideal for teamwork and educational purposes



```
main.py  saving...
1 from t
2
3 conversions = {
4     "inch": 1,
5     "turbo": 12,
6 }
7
8 from_unit = input("Enter unit type ")
9 from_measure = "3"
10 to_unit = "inch"
11
12 result = 0;
13
14 if from_unit == to_unit:
15     result = from_measure
16 elif from_unit == "inch":
17     result = inch_to_foot(from_measure)
18 elif from_unit == "foot":
19     result = foot_to_inch(from_measure)
20
21 print(result)
22
23
```

masiroos

hayadehi

```
https://imperial-len[...]  
Python 3.6.1 (de  
[GCC 4.8.2] on l  
Traceback (most  
File "main.py"  
result = foo  
File "main.py"  
return measu  
TypeError: unexp  
int'  
> print("Somebod  
Somebody help me  
> []
```

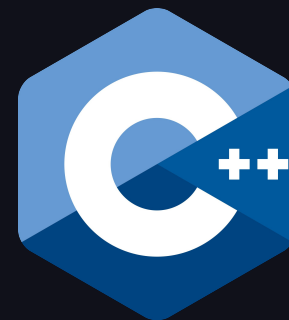


# Key Features – Languages



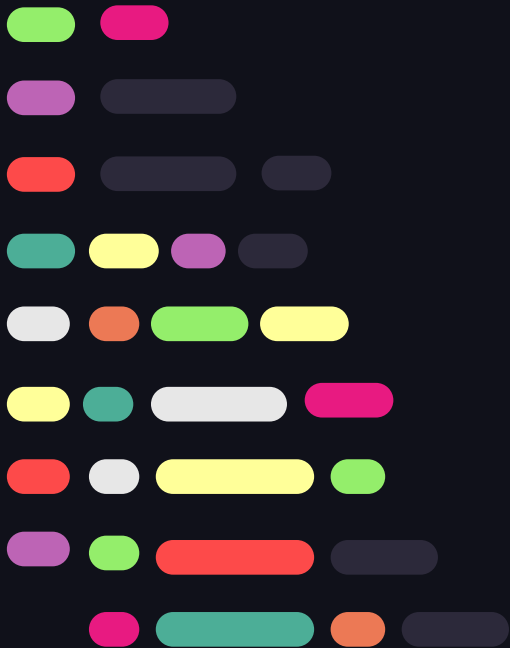
{ 50+

< languages supported >





# Nix Environments



Nix is a powerful functional package management and system configuration tool for Linux and MacOS.

Replit uses Nix for package management.





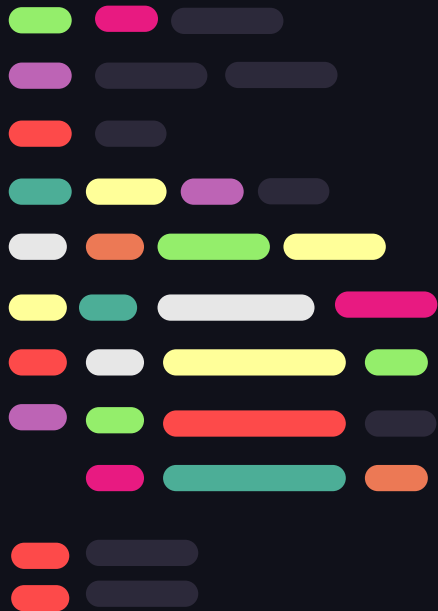
# Here are two benefits

## Custom Environments

Editing `replit.nix` allows developers to quickly create and share new custom environments.

## Reproducibility

Functional - Consistent Builds  
Confidence - packages are independent





{ Here are three more benefits  
..

## Extensive language support

Replit has: out of the box support for 50+ languages.  
Support for 80,000+ packages (from Nix)

## Easy configuration

Easily change attributes for builds in `replit.nix`

## Fast Builds

1 TB of packages are cached





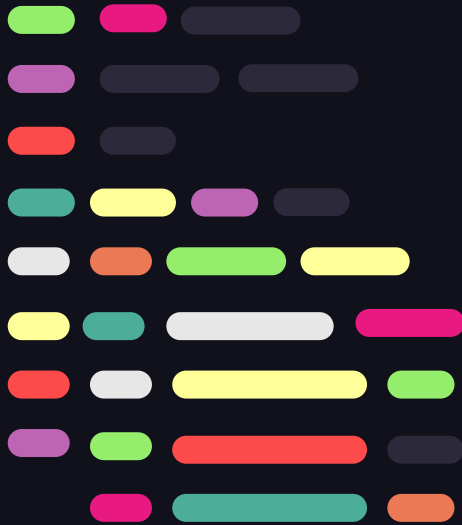
# Demo

<https://docs.replit.com/tutorials/python/build-with-nix>

<https://replit.com/@aritza/nix-template>

<https://replit.com/join/amrnczkluq-tyleryang7>

<https://nix-template.tyleryang7.repl.co/>



```
nginx: [emerg] mkdir() "/var/cache/nginx/client_body" failed (2: No such file or directory)
```





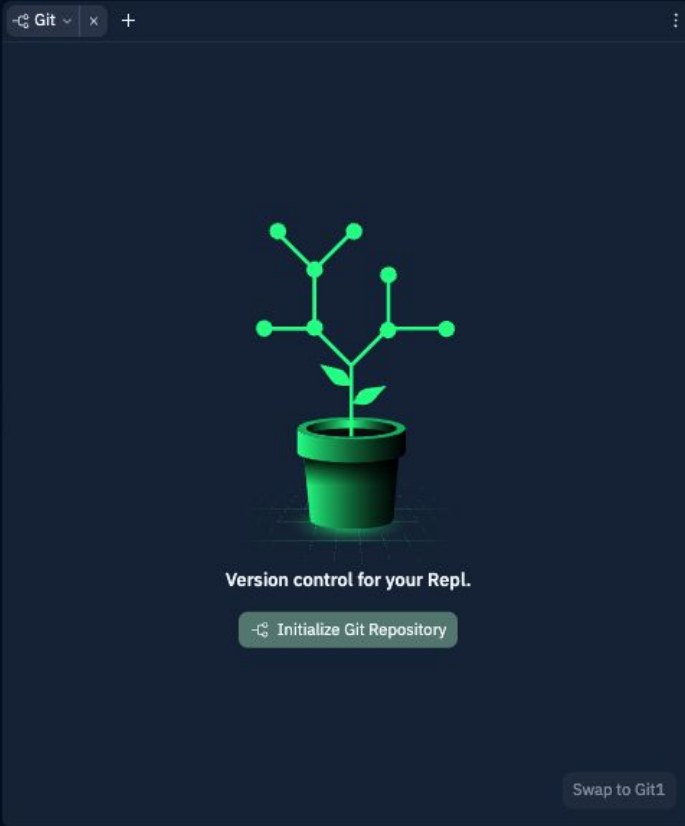


# Key Features – Version Control



## The Git Pane

Version control is built-in, allowing for the code tracking, management, branch switching.





# Pros and Cons of Replit



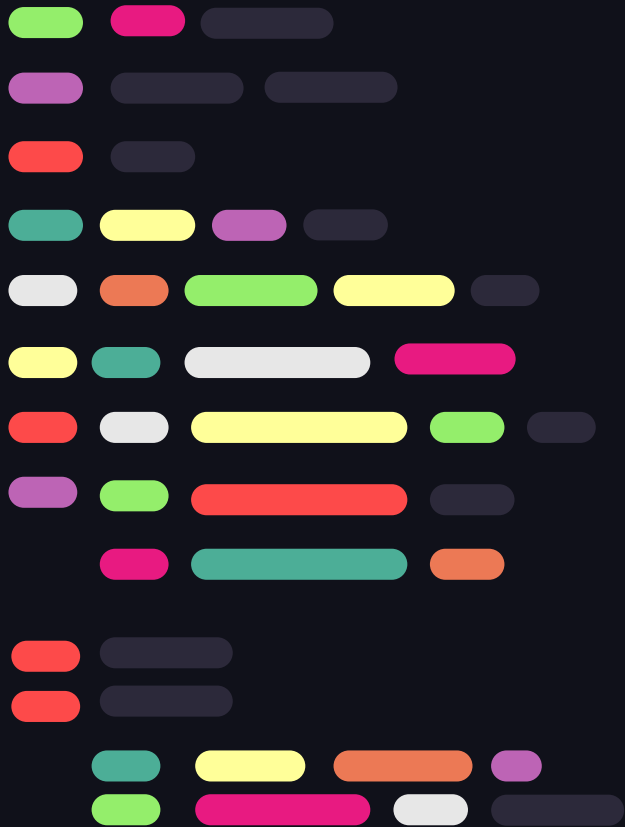
## Advantages

- Accessible and convenient
- Good for educational settings
- Replit Teams for group projects
- Strong community and support

## Disadvantages

- Only supports TCP
- No multiple servers or custom ports
- Cannot do anything requiring root permissions
- Limitations in storage and memory





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Any  
Questions?

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