

INSTALL

Installation Instructions

There are two ways to install our artifact: one way is to configure the environment directly on localhost; the other way is to use docker.

Install Directly

1. Install Elm :

<https://guide.elm-lang.org/install/elm.html>

2. Download Source Code :

<https://github.com/1BidirectionalPreview/BidirectionalPreview>

3. `cd BidirectionalPreview`(The root directory containing the `src` folder)

4. Compile Project: `elm make src/Main.elm --output=elm.js`

5. Open index.html using browser

Install Using Docker

1. Download the docker image file (bidirectional_preview.tar) from the artifact link

<https://drive.google.com/file/d/1G7Q6lNxsd8rmOkMnERqaUy6fV>

qJwy9oi/view?usp=sharing

2. Import the image and name it *bidirecitonalpreview*

```
docker import bidirectional_preview.tar bidirectionalpreview:latest
```

3. Check if import successfully

```
docker images
```

4. Create a container with port mapping and name it BiPreview.

Port 8000 of the container is mapped to port 8080 of the host.

```
docker run -ti -d --name BiPreview -p 8080:8000 -it  
bidirectionalpreview /bin/bash
```

5. Start the container BiPreview

6. Enter project:

```
cd /root/BidirectionalPreview
```

7. Compile project:

```
elm make src/Main.elm --output=elm.js
```

8. Starts a server at: <http://localhost:8000>

```
Elm reactor
```

9. In the host, visit url:

<http://localhost:8080>

10. Click index.html in the web page you just opened



File Navigation
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README.md
elm-test.js
elm.js
elm.json
index.html

README
BidirectionalPreview
This is a direct manipulating programming system for incomplete programs.

Source Directories
src

Dependencies		
	Punie/elm-parser-extras	1.0.0
	elm/browser	1.0.2
	elm/core	1.0.5
	elm/html	1.0.0
	elm/json	1.1.3
	elm/parser	1.1.0
	hecrj/html-parser	2.4.0
	myrho/elm-round	1.0.4
	turboMaCk/any-dict	2.4.0

Test Dependencies

A method to test the installation

Successfully opened the following page.

Bidirectional Preview Eval Uneval and Preview Uneval and Update Revert Code Clear Hole-Bindings

1

OUTPUT

CONTEXT

HOLE BINDINGS

Hole Name	Context	Value
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WHICH IS THE OUTPUT