

A scenic landscape featuring a variety of green trees in the foreground, a calm body of water in the middle ground, and a cluster of yellow-leaved trees in the background under a clear blue sky.

Adventures in Elm

YOW! Australia, December 2016

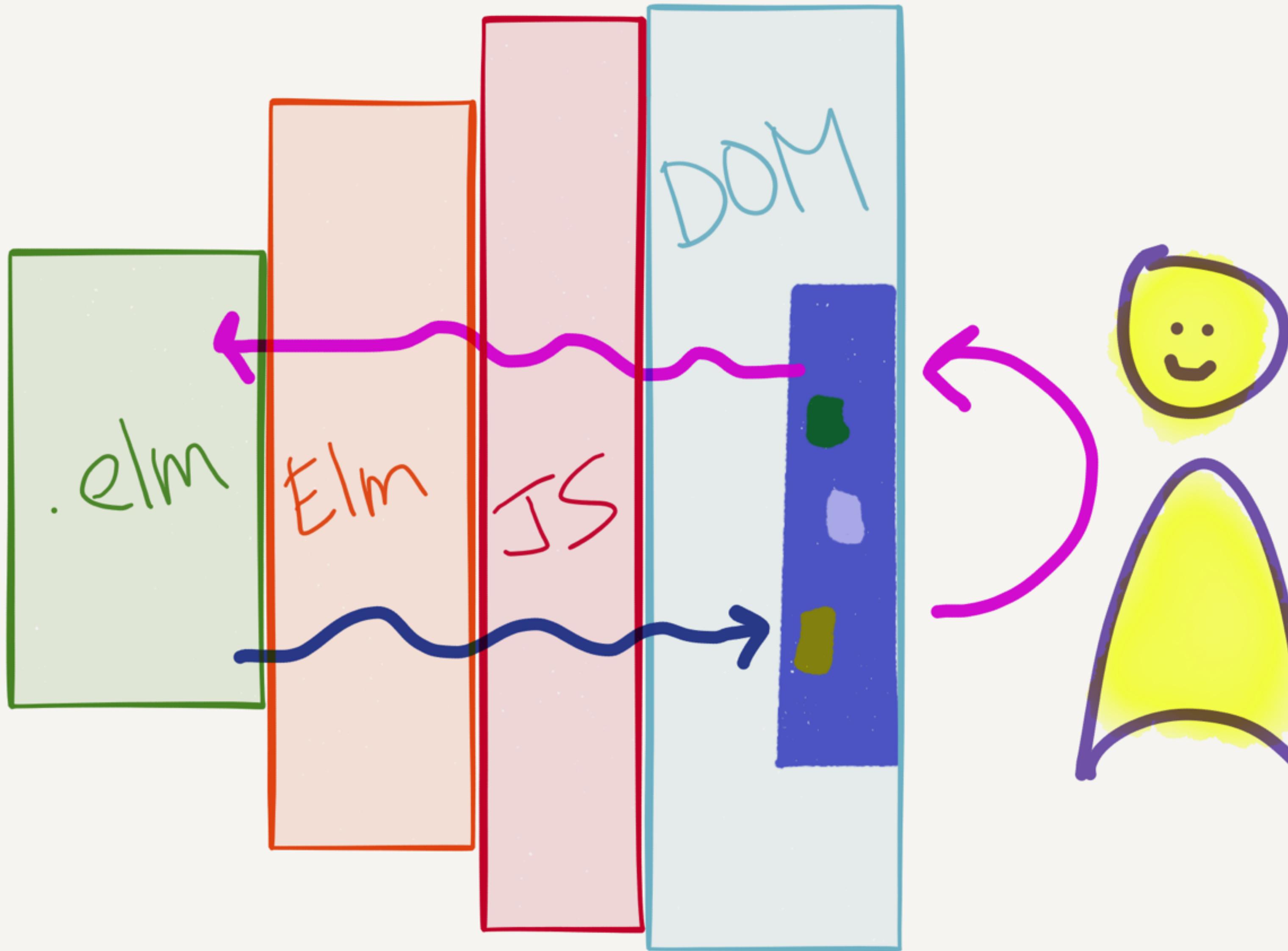
A close-up photograph of a yellow flower with green leaves against a blue background.

question your principles



@jessitron

stripe

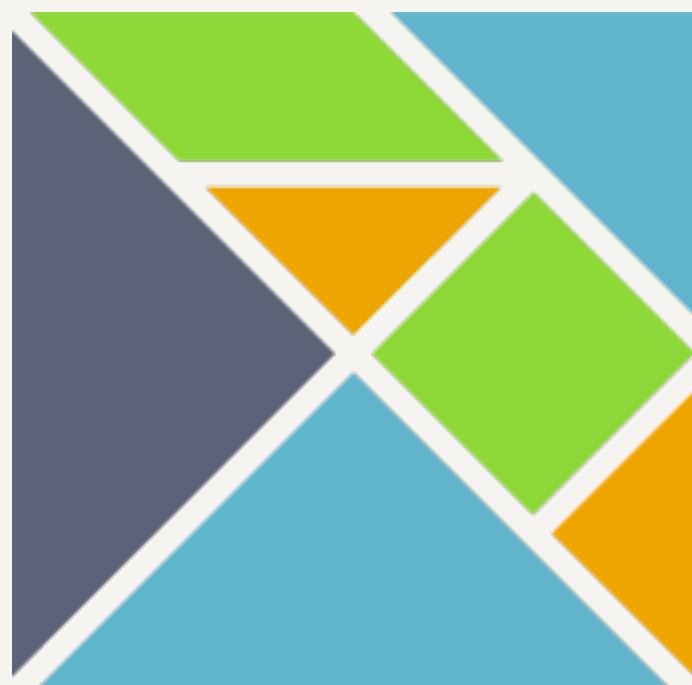


Single-threaded
Imperative

Asynchronous
Event-driven

JS

Elm



undefined is not a function

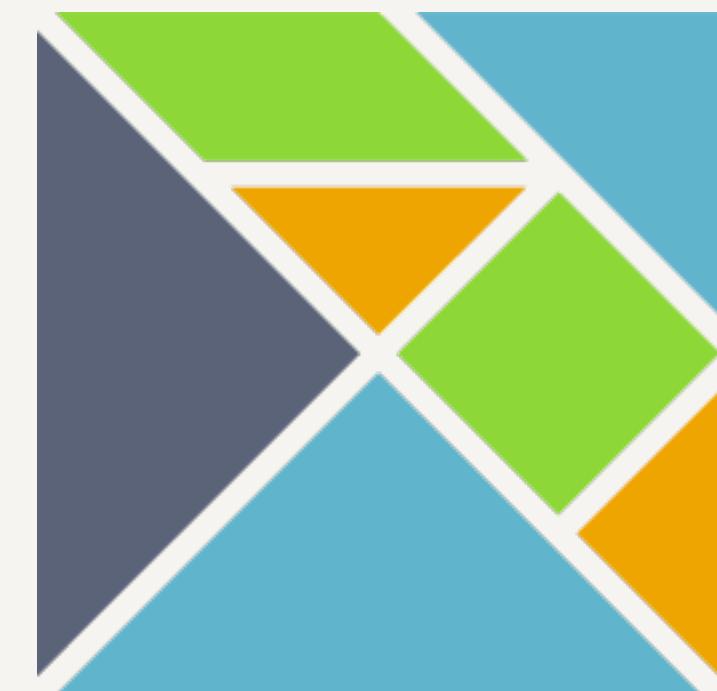


Runtime
errors

Compile
time
errors

JS

Elm



```
hello : String
hello = "Hello World"

words : List String
words = ["Hello", "World"]

main : Html Never
main = Html.text "Hello World"
```

```
text : String -> Html msg
```

```
text string = ...
```

```
style : List (String, String) -> Html.Attribute msg  
style pairs = ...
```

```
type alias Model =  
{  
    url : String  
}
```

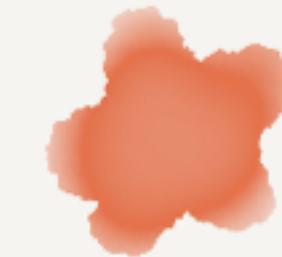
```
model : Model  
model =  
{  
    url = "cat.gif"  
}
```

```
type Msg =  
    Noop  
    | ButtonPushed  
    | GotInput String
```

```
input : Msg  
input = GotInput "type this"
```

```
type Msg =  
    Noop  
  | ButtonPushed  
  | GotInput String  
  
update : Msg -> Model -> Model  
update msg model =  
    case msg of  
        Noop ->  
            model  
        GotInput s ->  
            { model | url = s }
```


Ease
of reading



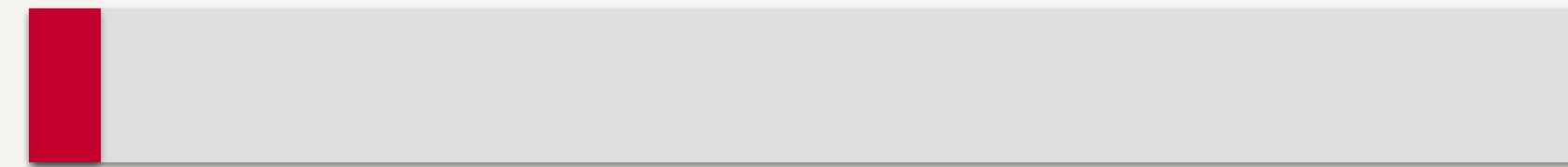
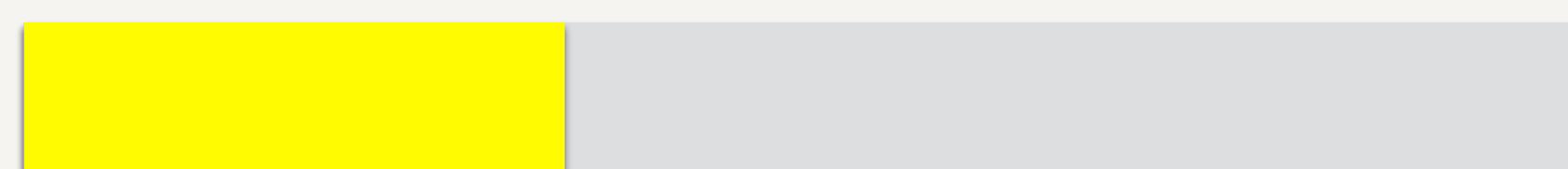
Elm

by maintainers

Ease
of writing

Ruby

magic!



elm in the browser

package management

test tools

libraries

build

guide.elm-lang.org/

jessitron.github.io/yow-sydney

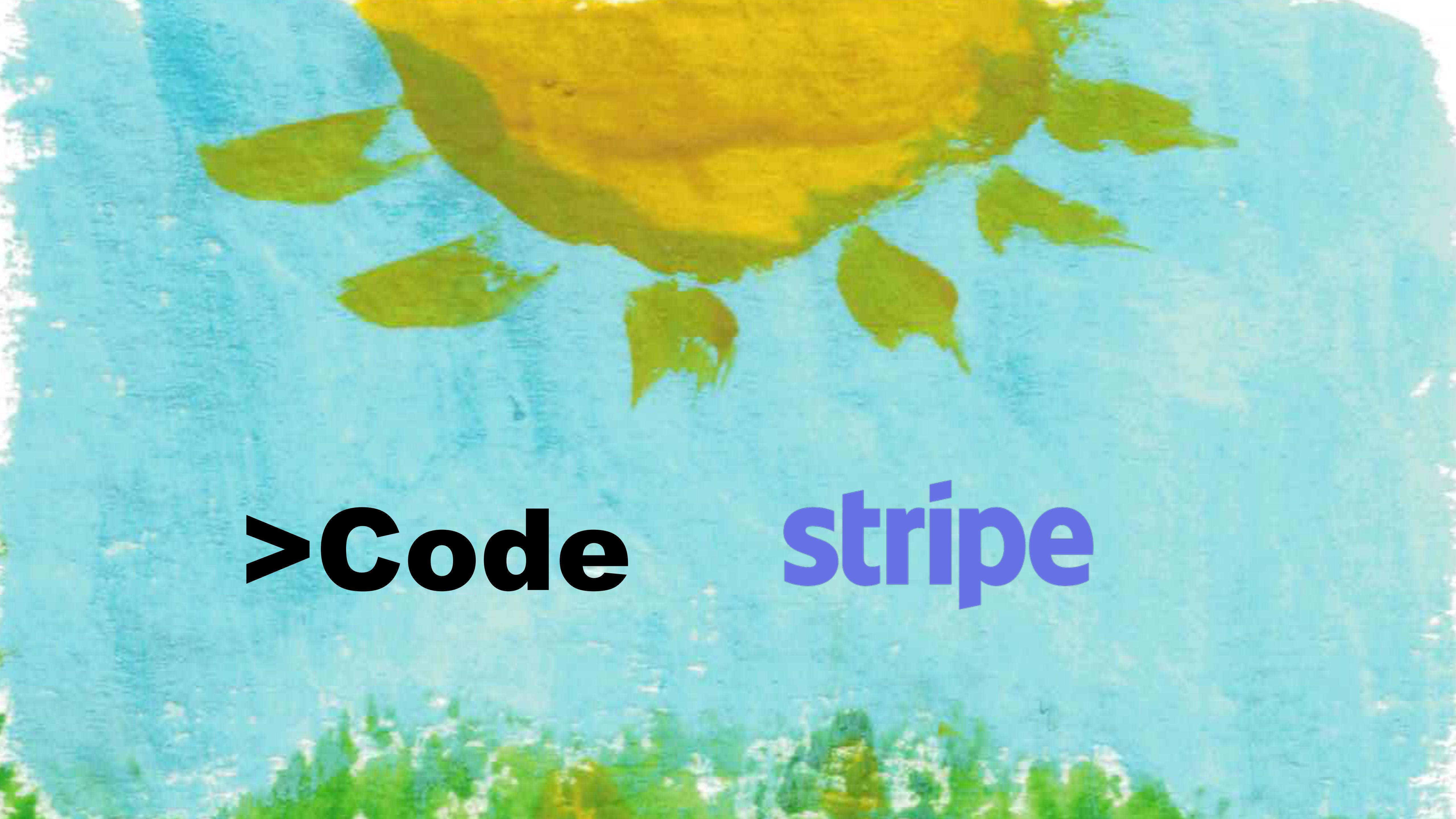
rug edit



medium.com/the-composition



ATOMIST



>Code stripe



@jessitron

github.com/jessitron/yow-sydney