							_			
\rightarrow	True/	Literals False : Bool	Lists A collection of items of the sam	ne type	Array.empty		om Types es start with an	Type Anno	otations	Destructuring sum addends =
	42 3.14 'a'	: number (Int or Float) : Float : Char	[1,2,3,4] 1 :: [2,3,4] 1 :: 2 :: 3 :: 4 :: []	іе туре	Array.fromList Array.toList Array.get Array.set	type User = Regu	etter	<pre>answer = 42 factorial : Int</pre>	-> Int	let (a, b) = addends in a + b
elm	"abc" mu	: String lti-line String r JSON data or	Records		- :	,	itor String	<pre>factorial n = List.produc (List.r</pre>	t ange 1 n)	sum (a, b) = a + b
Comments a single line comment {- a multiline comment {- can be nested -} -} The Eln Browser		",True) Elm Architecture er.sandbox	A collection of key/value pairs, to objects in JavaScript point = { x = 0, y = 0 point.x == 0 field access function List.map .x point, point point x = 6 update many fields point x = point.x +	} n int2] 1 1 }	Dictionaries Dict.empty Dict.fromList Dict.toList Dict.get Dict.update Sets Set.empty	Type Aliases case letter type alias type alias info: (Na info = ("Steve" type alias	", 28) s Point =	<pre>distance : {x : Float, y : Float} -> Float distance { x, y } = sqrt (x ^ 2 + y ^ 2) Type Maybe type Maybe a = Just a Nothing Type Result type Result err a = Ok a Err err</pre>		<pre>f list = case list of [] -> "Empty" [_] -> "One element" [a,b] -> "2 elements" a::b::_ -> "More than 2" myRecord = {x=1, y=2, z=3} sum {x, y} = x + y onlyX {x} = x sum ({x, y} as whole) = x + whole.y + whole.z</pre>
blocks of code {} add x y = x + y}	Browse Browse	er.element er.document er.application adless orm.worker	Extensible Records have at least certain fields: f : { b key : a } -> a f = .key		Set.fromList Set.toList Set.insert Set.remove	<pre>origin : I origin = {x = 0,</pre>				<pre>type My = My String toString (My string) = string type My = My {foo:Int,bar:Int} foo (My {foo}) = foo</pre>
Functions		Anonymous fun	ctions Optimizations		Ro	uting		Advance	ed Types	Constrained Type Variables
arguments or code blocks. square $n = n^2$	etter. No parentesis or commas for rguments or code blocks. with lamb quare $n = n^2$ square		Html.keyed t	<pre>mport Url.Parser exposing (s,(),i ype Route = Blog Int User String outeParser = oneOf [map Blog</pre>			Comment String Int Phantom types rest function arguments		restricts ents.	number (Int, Float) appendable (String, List a) comparable (Int, Float, Char, String, lists/tuples of comparable) compappend (String,
hypotenuse a b = sqrt (square a + square b)		<pre>squares = List.map (\n -> n^2) (List.range 1 100) Debug.todo</pre>			<pre>, map User (s "user"string) , map Comment (s "user"strings "comment"]</pre>			<pre>type Phantom a = Tag Int () Unit, Never</pre>		List comparable)
Conditionals		Java	Script Interop		Operators		Hello V	Vorld		Counter
<pre>if powerLevel > 9000 then "OVER 9000!!!" else "meh" if key == 40 then n + 1 else if key == 38 then n - 1 else n</pre>		Ports, incoming and outgoing values: port prices : (Float -> msg) -> Sub msg port time : Float -> Cmd msg From JS, start Elm with flags and talk to these ports: <div id="app"></div> <script src="elm.js"></script> <script> var app = Elm.Main.init({ node: document.getElementById('app'),</td><td>// == /= < > not 8 ++ modBy and (< :</td><td>= equ <= >= max min con & xor bor app remainderBy fau or xor bi</td><td>t division uality mparison oleans pend ncy math twise nctions ns</td><td>module Main exponent Html exponent in a control of the control of</td><td colspan=2>module Main module Main import Brow import Html import Html import Html import Html import alias initialMode</td><td>ps://ellie-app.com/ exposing (main) ser exposing () Events exposing () Model = { count : Int } 1 = { count = 0 } Increment Decrement</td></tr><tr><td colspan=2>Commands REPL</td><td colspan=2><pre>flags: { key: 'value' } }); app.ports.prices.send(42);</pre></td><td></td><td colspan=2>a + b == (+) a b</td><td>el [] [text Pattern M</td><td colspan=2>"Hello World!"]</td><td>model =</td></tr><tr><td>elm bump multi-lin</td><td colspan=2>elm init elm reactor elm make elm install elm bump elm diff elm publish elm init elm bump expressions sibel () for multi-line expressions</td><td colspan=2>Pipe Operator ii iii iiiiiiiiiiiiiiiiiiiiiiiiii</td><td>Modules Imports t List t List as L t List exposing () t List exposing (man t Maybe exposing (Man t Maybe exposing (Man</td><td>preferred p, foldl) aybe)</td><td>ase maybeList of Just xs -> xs Nothing -> [</td><td>f s]</td><td>Increment Decrement view model = [button , div []</td><td>-> {model count = model.count+1} -> {model count = model.count-1}</td></tr><tr><td colspan=2>Tools elm-format elm-json elm-live/elm-go elm-doc-preview</td><td colspan=2>viewNames2 names = names > List.sort > String.join ", " viewNames3 names = String.join ", " < List.sort names</td><td>Task.</td><td>Side Effects Task/C perform Task.att. andThen Cmd.batcl an be chained. Cmds only b</td><td>empt h</td><td>Just (first ase n of 0 -> 1 1 -> 1</td><td colspan=2><pre>t, rest)</td><td>ser.sandbox initialModel view = update</td></tr></tbody></table></script>								