



LearnDelphi.org

Coding Bootcamp 2023

Learn to Program

August 14th - 18th, 2023

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embarcadero®



Why work hard?

How to be a lazy coder and
still create beautiful apps
and a stack of money

Your presenter...



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Embarcadero Developer Advocate

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@punctuation

about.me/IanBarker

Slides, link & replay: <https://tinyurl.com/embtcoder>





So, you want to be a software developer?

Great!

It's the **BEST** job in the world, **REALLY**

Everyone **knows** you get **paid a ton of money** to **play** around with computers **all** day



So, you want to be a software developer?

Great!

It's the **WORST** job in the world, **REALLY**

Everyone **THINKS** you get paid a ton of money to play around with computers **ALL** day



So, you **STILL** want to be a software developer?

Great!

After **over 38 years** as a full-time **professional** software developer, I still **LOVE** the job

I get up **EVERY** day, and I write code





Things you will be told

'Real' developers...

Have to pull 'all-nighters'

'Real' developers prefer the command line

'Real' developers use Linux

VIM is the best editor



Things you will be told – the truth

‘Real’ developers...

- Have to pull ‘all-nighters’ **Yes, sometimes I’ve done that**
- ‘Real’ developers prefer the command line **No!**
- ‘Real’ developers use Linux **No! Some do, many don’t**
- VIM is the best editor **for masochists**



Things you will be told

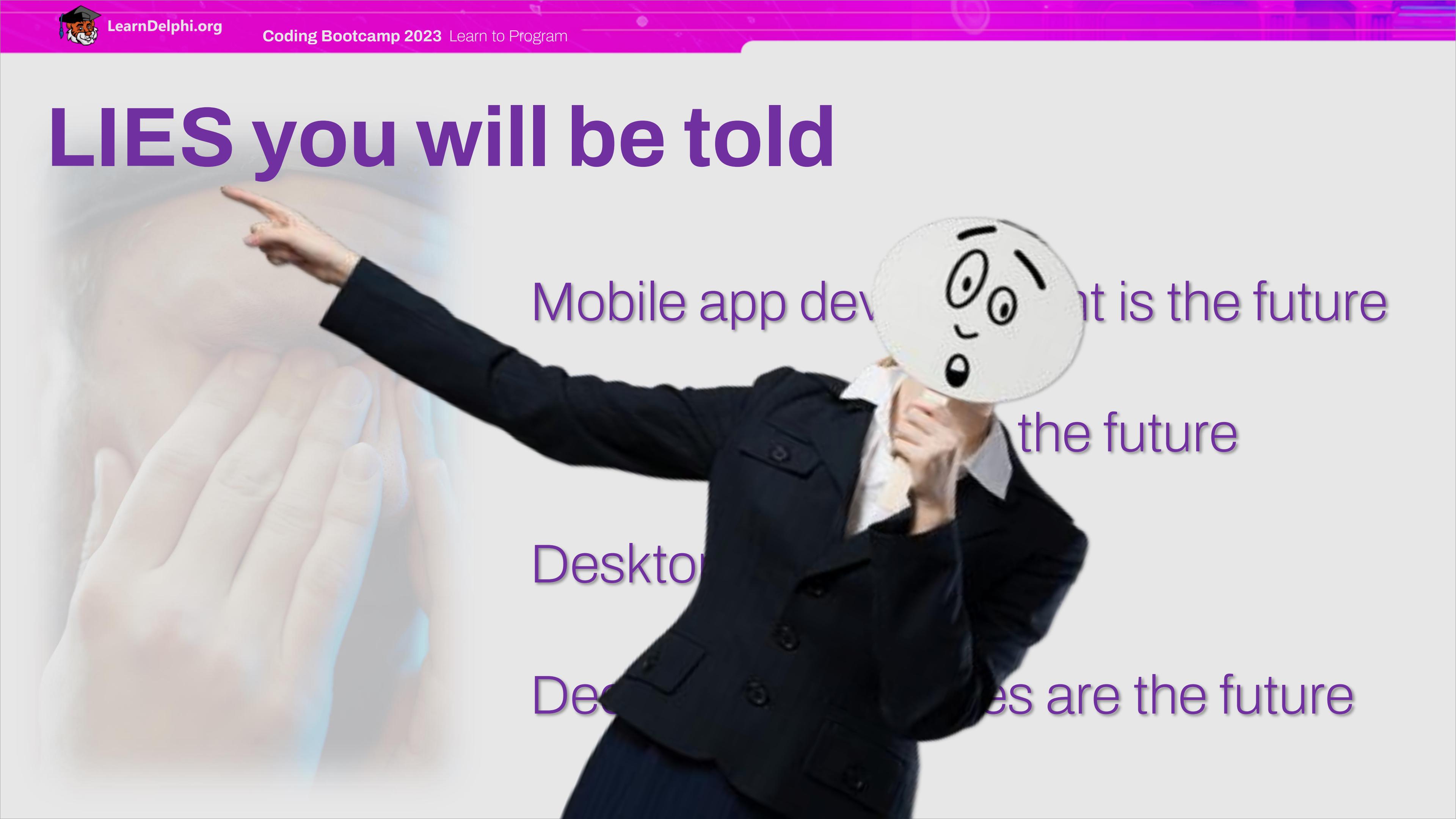
Mobile app development is the future

Web development is the future

Desktop apps are dead

Declarative interfaces are the future

LIES you will be told

A photograph of a person in a dark suit and white shirt pointing their right index finger towards the left. In the background, a large, semi-transparent hand is visible, holding a megaphone with a cartoon face on it. The megaphone's mouth is open as if shouting.

Mobile app development is the future

the future

Desktop

Desktop technologies are the future

Other things you will be told



Mobile app developers make
a ton of money

Mobile app developers make a ton of money?

Let's run the numbers...

App Gross Revenue

\$1,500.00 per month target income	App price	Qty to sell	
		per week	per month
			per year
\$18,000.00 per year	\$0.99	350	1515
\$ 346.15 per week	\$1.99	174	754
\$ 49.45 per day	\$2.99	116	502
\$ 6.18 per hour	\$3.99	87	376
\$ 7.25 per hour US national minimum wage	\$4.99	69	301
\$ 1.07 per hour more on US national minimum wage	\$5.99	58	250
	\$6.99	50	215
	\$7.99	43	188
	\$8.99	39	167
	\$9.99	35	150
			1802

Mobile app developers make a ton of money?

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18182

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\$ 1.07 per hour more on US national minimum wage

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167

2002

\$9.99

35

150

1802



Don't panic!



Versatile developers make a ton of money

Working smart makes money

Using the right tools makes money



Working smart

```
2 references
  SELECT WORK-FILE ASSIGN TO DISK.

DATA DIVISION.

FILE SECTION.

3 references
FD IN-FILE
  RECORD CONTAINS 28 CHARACTERS.
  1 reference
  01 IN-REC.
    02 TERR-IN          PIC XX.
    02 AREA-X-IN        PIC XXX.
    02 DEPT-IN          PIC XXX.
    02 LAST-NAME-IN     PIC X(12).
    02 FIRST-NAME-IN    PIC X(8).

2 references
FD OUT-FILE
  RECORD CONTAINS 132 CHARACTERS.
  1 reference
  01 OUT-REC          PIC X(132).

2 references
SD WORK-FILE.
  2 references
  01 WORK-REC.
    3 references
    02 TERR-WORK        PIC XX.
    1 reference
    02 AREA-X-WORK      PIC XXX.
    1 reference
    02 DEPT-WORK        PIC XXX.
    02 LAST-NAME-WORK   PIC X(12).
    02 FIRST-NAME-WORK  PIC X(8).

WORKING-STORAGE SECTION
```

Use a coding environment which helps you write fewer lines of code

Fewer lines means

- Faster to create
- Reduces bugs!



Working smart

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        02 DEPT-WORK         PIC XXX.
      1 reference
        02 LAST-NAME-WORK   PIC X(12).
      1 reference
        02 FIRST-NAME-WORK  PIC X(8).

WORKING-STORAGE SECTION
```

If your coding environment expects you to design the user interface by **manually** typing code

then it has not progressed much beyond the COBOL on the **1960s**

Working smart

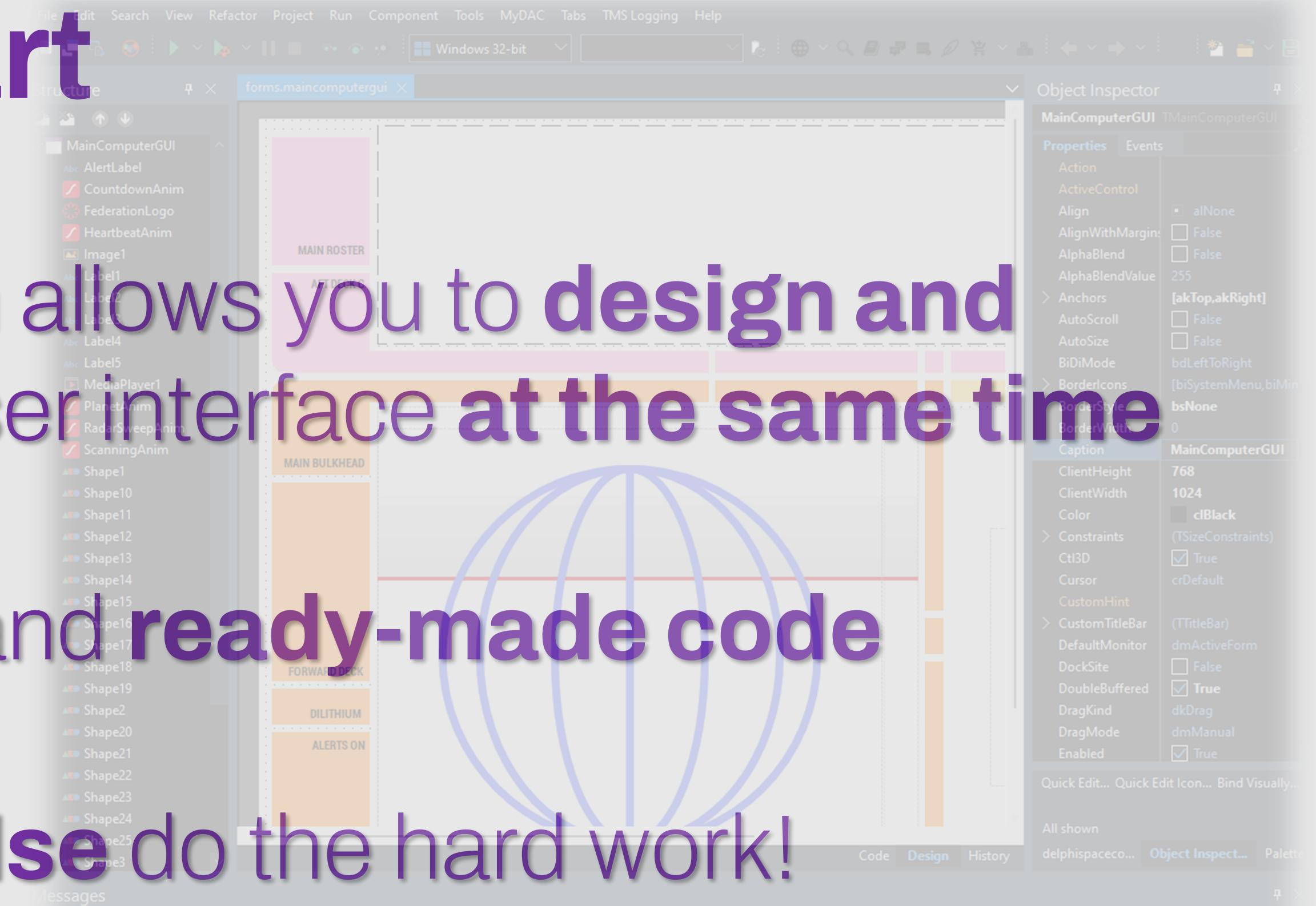
- **Don't** use a tool which locks you into a single device ecosystem
- PWAs *generally* provide an **inadequate** user experience
- **Do** pick a tool which shares as **MUCH** code as possible between device types





Working smart

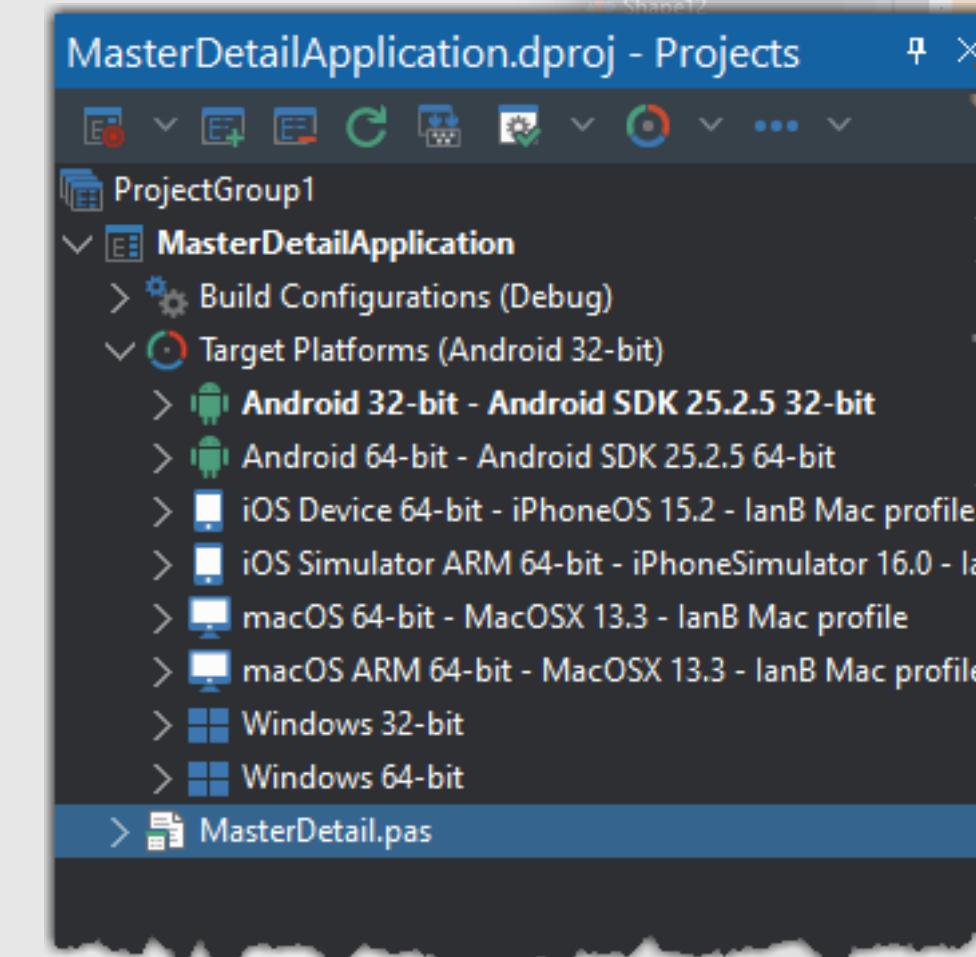
- Use a tool which allows you to **design and visualize** the user interface **at the same time**
- Reuse existing and **ready-made code**
- Let **someone else** do the hard work!





Working smart

Use a tool which allows you create apps for Windows, Linux, macOS, iOS, and Android **using just ONE tool**





Working smart

Why just one tool?

One set of code (and one project) to deal with

The same code works for **everything** – Windows,
Linux, macOS, iOS, and Android

One set of updates to think of

Learn only **one** easy programming language

Do **everything** for **every** device from that **one** tool



Working smart

Why just one tool?

One tool that creates native apps for all mobile devices saves huge amounts of time

One set of code means you only have to add new features or fix bugs **ONCE**

That means fewer NEW errors which keeps customers happy and speeds up your development process

Faster, more **efficient**, single place to work means more **profit** and time to work on other projects → time really is **money**



Let's see some of that



Time for a
DEMONSTRATION



Ready-made things to make you look good

www.embarcadero.com/products/delphi/starter

The screenshot shows the Embarcadero website with a dark header. The header includes links for 'RAD Studio 11.3 Alexandria Now Available! Learn more', 'My Downloads', 'Upgrade Center', 'My Customer Portal', 'Contact Us', a search icon, and a shopping cart icon. Below the header, the 'embarcadero' logo is on the left, followed by navigation links for 'Products', 'Free Tools', 'Blogs', 'Resources', and 'GetIt'. A 'Buy Now' button and a 'Renew' button are also present. The main content area features a large heading 'Delphi 11 Community Edition' in pink, followed by the text 'Full-Featured Free Delphi IDE for Creating Native Cross-Platform Apps'. A 'Get Community Edition Free' button is shown. Below this, there is descriptive text about the Delphi Community Edition (CE) and its features, including support for iOS, Android, Windows, and macOS. At the bottom, there is a section titled 'Start Building Apps Today Free!' with a bulleted list of features.

Delphi 11 Community Edition

Full-Featured Free Delphi IDE for Creating Native Cross-Platform Apps

[Get Community Edition Free](#)

Delphi Community Edition (CE) is a full featured IDE for building iOS, Android, Windows and macOS apps from a single Delphi codebase (limited commercial use license).

Delphi CE is shared free of charge with our community of freelance developers, startups, students and non-profits.

Delphi CE includes a code editor, powerful debugging tools, built-in access to popular local databases with live data at design time, Bluetooth capabilities, and a visual UI designer with support for pixel perfect, platform-specific styling.

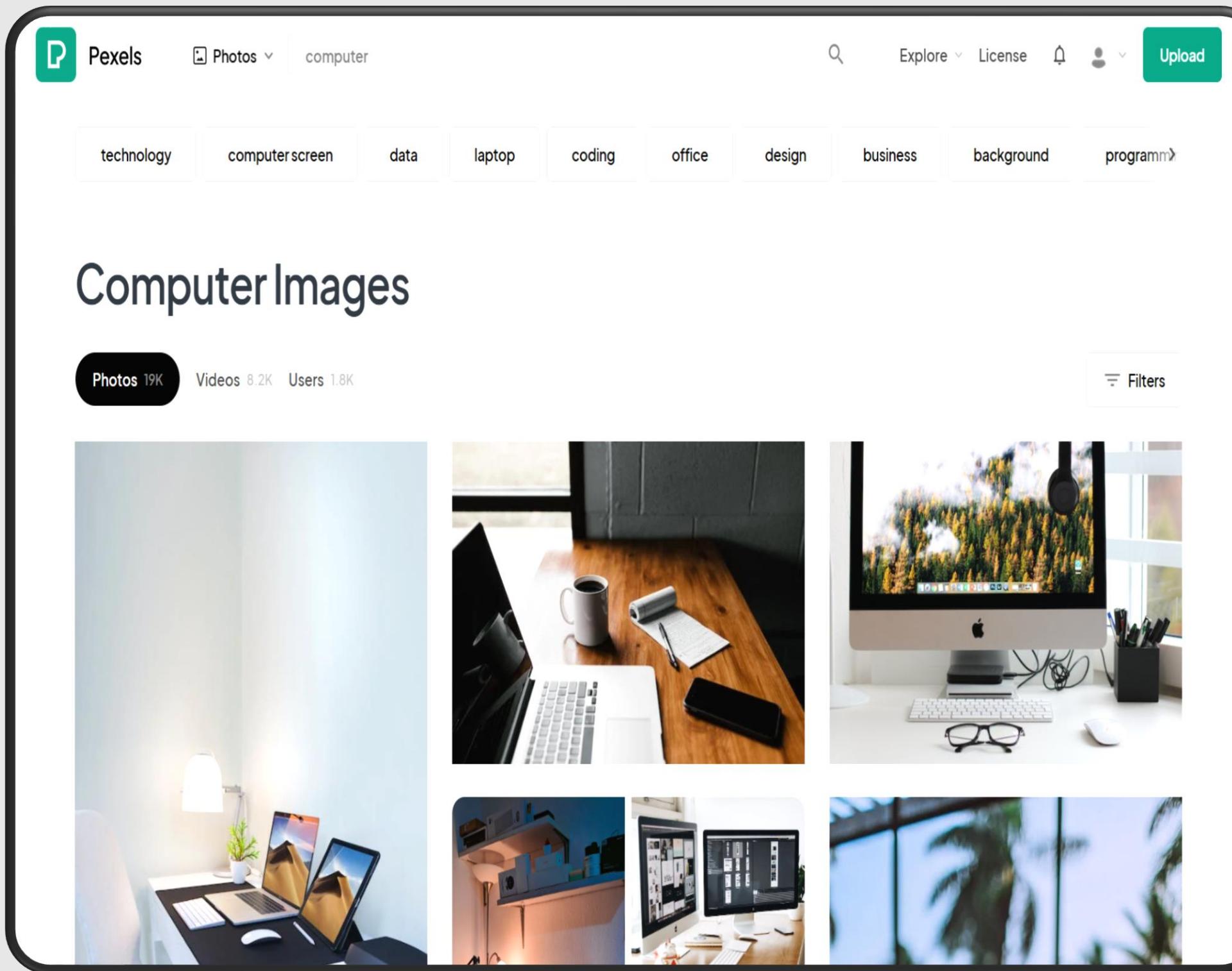
Start Building Apps Today Free!

- Integrated professional developer tools
- Visually stunning Windows, macOS, Android and iOS apps with a single codebase and responsive UI
- Award-winning Visual Designer for Delphi VCL and FireMonkey frameworks
- Built-in debugging tools and integrated toolchain
- Data binding and local/embedded capabilities for database apps
- Hundreds of included components

Completely **FREE**
version of RAD Studio
for students and new
developers



Ready-made things to make you look good

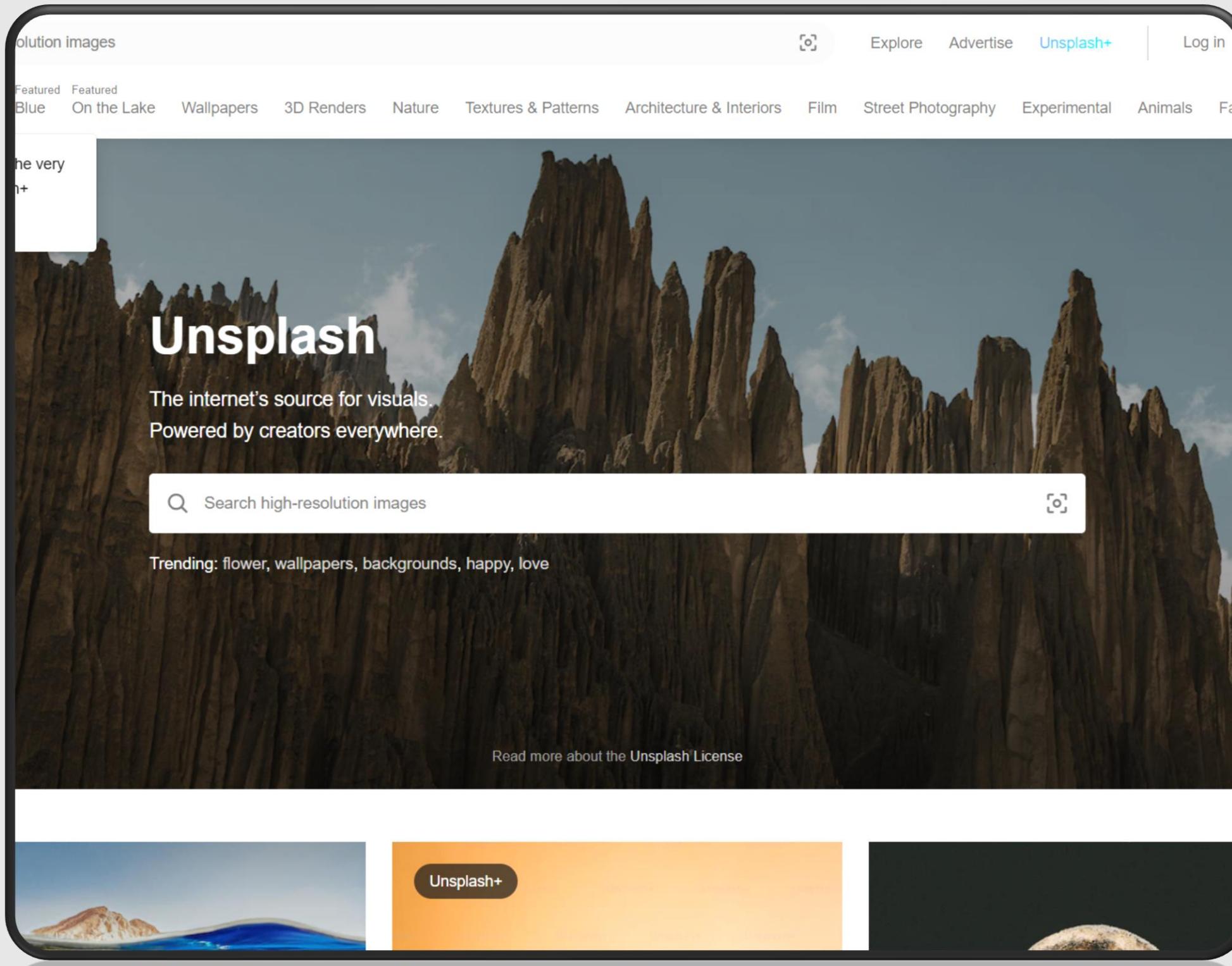


www.pexels.com

Completely FREE
graphics of all types



Ready-made things to make you look good



www.unsplash.com

More FREE larger format
graphics of all types



Ready-made things to make you look good

The screenshot shows the homepage of fontlibrary.org. At the top, there's a navigation bar with links for 'FONT LIBRARY', 'FONTS', and 'GUIDEBOOK'. Below that is a search bar with 'English' selected and a magnifying glass icon. The main content area features a large heading 'FEATURED FONTS' above five font samples: 'DATALEGREYA', 'COOPER HEWITT', 'JELLEE TYPEFACE', 'AVARA', and 'FANTASQUE SANS MONO'. Below this, a large font sample for 'Jellee by Alfredo Marco P' is displayed. To the right of the featured fonts are two columns: 'CATEGORIES' (listing Sans-serif, Serif, Display, Handwriting, Monospaced, Dingbat, and Blackletter) and 'LANGUAGES' (listing Arabic, Cyrillic, Euro, Hebrew, Greek, Thai, Turkish, Vietnamese, and Western European). Further down are sections for 'SHARE YOUR FONTS' and 'WEB FONTS'. At the bottom, there are cards for 'UNIQUE', 'Code New Roman', 'Archivo Narrow', 'FUTURA RENNER', 'AVARA', and 'AVERIA'.

fontlibrary.org

HUGE range of free
fonts of every kind



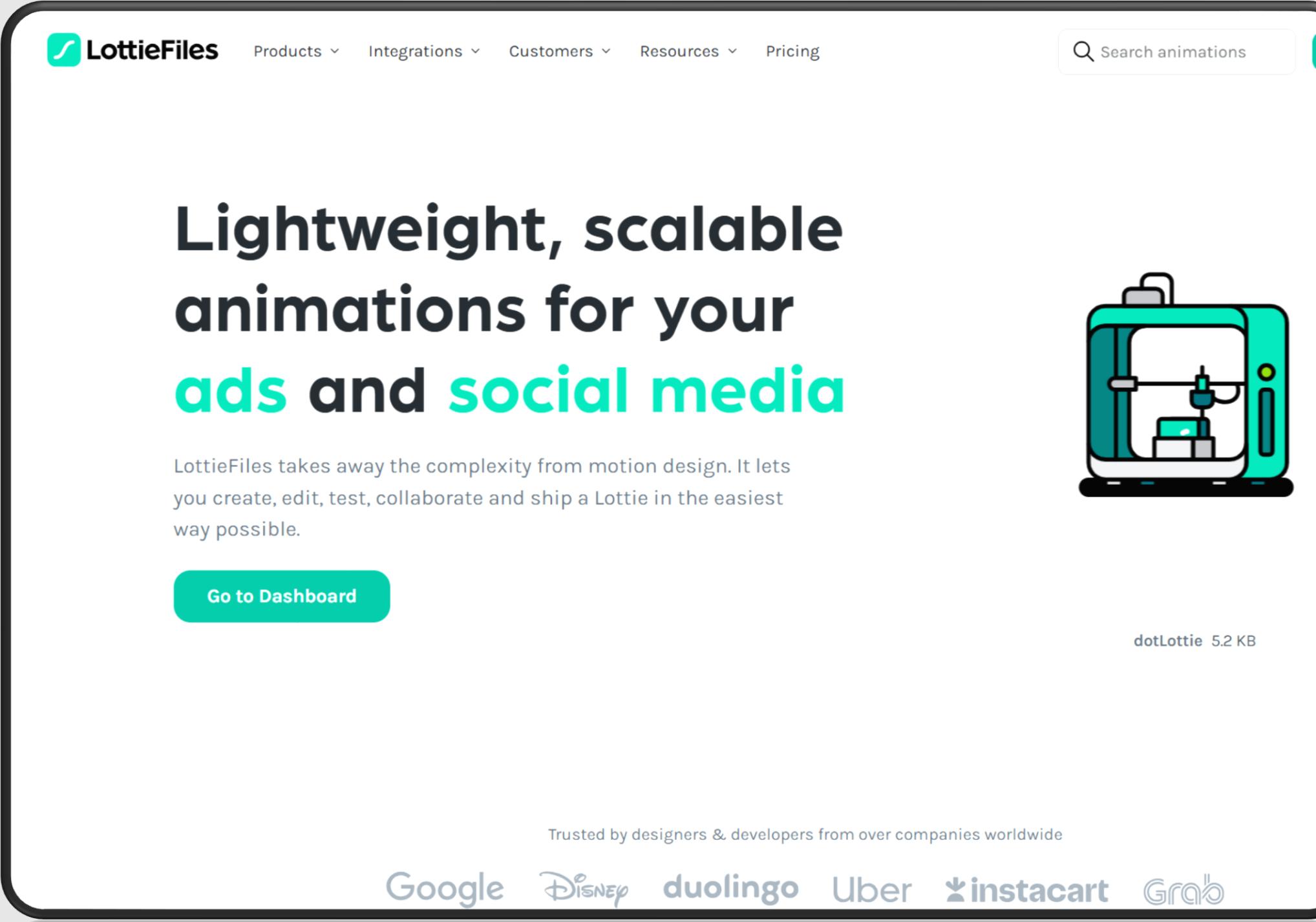
Ready-made things to make you look good

The screenshot shows the homepage of fontawesome.com. At the top, there's a navigation bar with links for Start, Icons, Docs, Plans, Support, and Podcast. Below the navigation is a search bar with the placeholder "Search 26,233 icons..." and a note "Powered by Algolia". A sub-note below the search bar says "Try alert, filter, time, airbnb, spotify, or halle berry.". The main content area displays several statistics: "26,233 total icons in Font Awesome 6 Pro", "8 styles of icons", "12,896 new icons in Font Awesome 6", "68 categories of icons", and "2,025 free and open-source icons". Below these stats are three colored boxes showing icon samples: a pink "Sharp Light" box, a blue "All New Thin Icons" box, and a green "Humanitarian Icons" box. At the bottom, there's a "What's New?" section with small preview icons and a "View All New Icons" button.

fontawesome.com

The definitive source for
all those cool line drawing
icons you see
EVERWHERE

Ready-made things to make you look good



LottieFiles Products Integrations Customers Resources Pricing

Search animations

Lightweight, scalable animations for your ads and social media

LottieFiles takes away the complexity from motion design. It lets you create, edit, test, collaborate and ship a Lottie in the easiest way possible.

[Go to Dashboard](#)

dotLottie 5.2 KB

Trusted by designers & developers from over companies worldwide

Google Disney duolingo Uber instacart Grab

lottiefiles.com

A whole bunch of cartoon-like animations



Ready-made things to make you look good

The screenshot shows a dark-themed website for 'DELPHISTYLES'. At the top, there's a navigation bar with links for 'FMX Styles', 'Getting Started', 'Buy Now', and 'Third-Party'. Below the navigation, the text 'MultiPlatform (Windows, macOS, iOS, Android, Linux)' is displayed. A note states: 'Intended for use with RAD Studio XE5 - 11 Alexandria (Delphi and C++ Builder)'. It also mentions: 'Product includes collection of FM style templates for Bitmap Style Designer.', 'Template for each platform can has platform specifics in multi-resolution graphics and parameters for style-objects.', 'Each style includes special patch-installer for XE5 - Sydney to improve UI (fixes are included by default since RAD Studio 11 Alexandria)', and 'Note: Styled form title doesn't work for 64-bit macOS and Linux apps (systems and FM limitations)'. Two screenshots of the 'FMX Style Viewer' application are shown side-by-side: 'Mirage Light' on the left and 'Mirage Dark' on the right, both displaying various UI components like buttons, checkboxes, and dropdowns.

www.delphistyles.com

Make your apps look like
you have a whole team of
expensive designers
locked in your bathroom

Your presenter...



Ian Barker

Embarcadero Developer Advocate

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@punctuation

about.me/IanBarker

Slides, link & replay: <https://tinyurl.com/embtcoder>



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Learn to Program

THANKS FOR WATCHING

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