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Digital School

Software Engineering Bootcamp Syllabus

Learn to code and make the jump with our
part-time and full-time coding bootcamps



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Who we are

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Hi! We're James, Robert and Katie, we're family, and in 2018 we founded The Jump.



James Sherry

Co-Founder / Head of Teaching

- A professional Full-Stack Software Engineer since 2006
- 3 years teaching at General Assembly prior to co-founding The Jump
- Self-taught Dev before it became cool!



Robert Sherry

Co-Founder / Head of Ops

- 10 years working in the City in Recruitment and Talent Acquisition
- 5 years in performance coaching prior to co-founding The Jump
- Brother to James and partner to Katie



Katie Smith

Co-Founder / Head of Marketing

- 10 years working in financial services including Management Consulting, Corporate Social Responsibility and HR
- Has lived in Madrid, Barcelona, Shanghai and Zurich

Our purpose

{the jump}

To provide the technical training and optional career-change support you'll need to:



Change career and become a professional software engineer



Create more value in your current role by upskilling



Build your own software to bring your ideas to life

Why?

1. We **LOVE** seeing our students unleash their potential
2. We want to make sure that **no one gets left behind**

Mastering the awesome power of tech through software development opens up so many new opportunities, and equips you with the skills that are becoming even more important for employability.

How?

By providing you with more **accessible, in-depth** and **commercially-relevant software engineering-training** and **career-change support**, that's delivered by **senior developers** who are dedicated to helping you make the jump.

What is the Software Engineering Bootcamp?

This bootcamp is our most comprehensive programme of **in-depth software-engineering training** and optional **career-change support**.

Training: You'll learn from **senior developers**, who'll show you everything you need to know to build and deploy software to a professional standard; you'll cover both front-end and back-end development; and you'll get **as much 1-2-1 support** as you need

Career-change support: You'll get dedicated support from experienced recruiters, to help you with all aspects of starting a new career as a software engineer (if that's your goal).

Train **part-time** for **30 weeks** (without quitting your job), or **full-time** for **12 weeks** (plus pre-work)



Who's it for?

Adults looking to build and deploy full-stack websites and web applications professionally, whether that's to **change career**, **upskill**, or **bring your ideas to life**. This is suitable for beginners with no experience, through to intermediates.



CAREER-CHANGERS LIKE NATALIA

Natalia made the jump from a make-up artist and visual merchandiser who had never seen a line of code before, to being a software engineer with a leading digital product agency in London.



UPSKILLERS LIKE DWAYNE

Dwayne was a Quality Assurance Engineer and took our Software Engineering course to upskill and make the jump to a better role with more hands-on software development work.



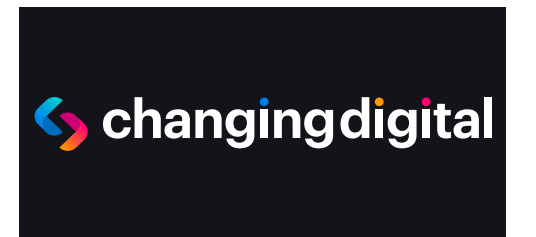
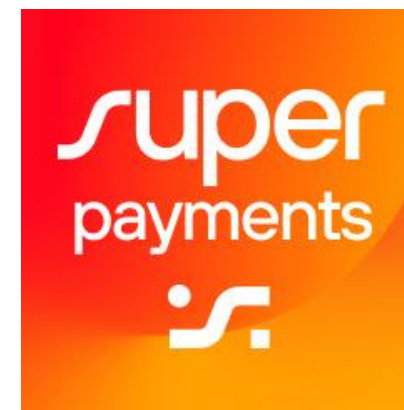
ENTREPRENEURS LIKE TOM

Tom works in SEO and had some ideas for products and services that he wanted to bring to life. He used our Software Engineering course to learn how to do exactly that and made the jump to launching his own businesses.

Can I get a job afterwards?

{the jump}

Absolutely! From start-ups to global players, here are some of the cool places our grads have been hired to work as **software engineers!**



Testimonials

We know our programmes work but don't just take our word for it! Here's what some of our happy grads had to say after they made the jump!

Sam



The best investment I've made to advance my professional career. Unlike other well-known coding courses, the programme does not teach outdated frameworks and languages that are no longer in demand.

Hannah



An in-depth course at half the cost with the best aftercare! The Jump was a great compromise for me as I wanted structured learning and hands-on support but couldn't commit to immersive. This level of support cannot be found anywhere else!

Aaron



The Jump has been life-changing for me. Just one month into their course I was able to start interviewing for roles that I was originally planning on interviewing for in a year's time. I couldn't believe it but thanks to what I had learnt so far, I got the job!

Jessie



I loved my experience at the Jump. I found that everyone was incredibly supportive and had a lot of time for me. Within a couple months I had a multiple job offers. I definitely couldn't have got the job I ended up with without the Jump. I would recommend arranging a call with Rob.

Ian



The course has been a revelation for me. The curriculum is thorough, up to date and focused on technologies that are being used in the marketplace today. Genuinely feels like they actually care about your next steps. When you compare the cost of this to other courses, it's an absolute steal.

Grazell



I'll start by saying that I would 100% recommend The Jump to anyone who wants to get into web development, the content of the course is top-notch! Within 2 weeks of firing out applications, I landed my first role as a Junior Full-Stack Engineer I can't imagine being able to do that successfully, within that timeframe, without The Jump.

[Read more testimonials](#)

What you'll learn

Before we go into more detail, here's an overview of what you'll learn:

01

The constituent parts of the internet and websites / web applications: The client-server model (including APIs)

03

The tools & systems to create, edit, debug, test, deploy & host your code

02

The programming languages and libraries to control those constituent parts e.g. HTML, CSS, JavaScript (including NodeJS & React), SQL/NoSQL, Shell, GraphQL, JSON and YAML

04

Industry standards and best practice for writing software

Your journey to software engineer

{the jump}

HTML and CSS: First, we'll teach you to create the structure, content and style of your web page's or web application's User Interface (UI)

Immersive (12 weeks)	Part-time (30 weeks)
Weeks 1-3 + pre-work	Weeks 1-2
	Weeks 3-8

HTML (Hypertext Markup Language)

Module outcome: Get familiar with using code editors and developer tools. Create the structure and content of web pages to be user friendly, semantically meaningful for accessibility, and optimised for indexing by search engines.

To do this you'll learn: How an HTML document works and how it's interpreted by the browser; how to section your page, and; the different tags to use to mark up your content.

CSS (Cascading Style Sheets)

Module outcome: Take flat design files (e.g. Figma or Sketch files) and create professional standard, pixel-perfect replications that are responsive to device screen size / orientation and consistent across browsers.


To do this you'll learn: How to use vanilla CSS to control layout (with Flexbox and CSS Grid), colour, fonts, spacing, positioning, backgrounds and animation relating to your content. Then later, CSS frameworks like Bulma & Bootstrap and preprocessors like SCSS/SASS.



Your journey to software engineer

{the jump}

JavaScript: Next up, learn to programme your application or website to give it functionality

Immersive (12 weeks)	Part-time (30 weeks)	Learn how to write and use JavaScript Module outcome: Create the internal logic of applications that will take in data, process it and return the desired result to the console of your developer tools. To do this you'll learn: The fundamentals of programming; the features of JavaScript and its syntax e.g. variables, data types and structures, control flow, loops and functions, methods, etc; Concepts such as scope, execution context, "this", closures, abstraction, encapsulation, polymorphism, prototypal inheritance, Object Oriented Programming and CRUD ops.	
	Weeks 9-13	Use JavaScript to add functionality to User Interfaces (UI's) Module outcome: Create interactive UI's that respond dynamically to events triggered by users, such as mouse clicks, or programmatic events such as timers. To do this you'll learn: Browser resources e.g. web API's; The DOM (Document Object Model); How to target elements in the DOM and styles in CSSOM, and manipulate them.	JSDOM
	Weeks 4-6	Weeks 14-15	Use JavaScript to connect to external resources Module outcome: Send data to, and receive from, external services and applications. To do this you'll learn: Transport layers, AJAX, Asynchronous Programming, and APIs (Application Programming Interfaces) and GraphQL for more performant API's.
	Week 16		



Your journey to software engineer



JavaScript: Then master the tools, frameworks and libraries to take you to the next level

Immersive (12 weeks)	Part-time (30 weeks)
	Week 17
	Weeks 18-21
	Week 24

Command Line Interface and Git

Module outcome: You'll be able to administer processes and perform tasks optimally, and be able to move code to remote locations (e.g. GitHub for collaborations).

To do this you'll learn: How to navigate your operating system like a professional programmer

React

Module outcome: Use React (the most in-demand and commercially valuable front-end JavaScript framework/library) to build more manageable and performant Single Page Applications (SPA's) through 'component based architecture'.

To do this you'll learn: About SPA's, components, props, state, routers, context and hooks, and; styling with Styled Components and Material UI.

Realtime, Graphing and Animation

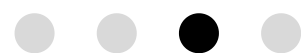
Module outcome: Create more engaging and complex animations, create applications that update in real-time, and create visualisations that tell a more effective story.

To do this you'll learn: Libraries like Greensock, Three.js and D3.js; WebSockets; WebRTC

Software Testing

Module outcome: Know with certainty that the code you deploy will (continue to) work

To do this you'll learn: Test Driven Development principles; TypeScript, ESLint, Cypress, Vitest



Your journey to software engineer

{the jump}

JavaScript: Last but not least, learn to utilise servers, databases and DevOps

Immersive (12 weeks)	Part-time (30 weeks)
Weeks 10-12	Weeks 25-27.5
	Weeks 27.5-30

The Back End

Module outcome: Create servers that perform processes such as calculating, validating and manipulating data, querying databases and distributing files and other data to the front-end of your application. Connect to 3rd party services like Twitter or Zapier. Administer relational and non-relational databases to persist data. Control the access rights of an application's users, based on their level of authentication. Host your sites and applications with cloud service providers and use Serverless technology.

To do this you'll learn: Server-side programming using JavaScript in Node.JS and its framework, Express; SQL (Structured Query Language) and NoSQL and specific databases including MongoDB, Postgres and neo4j; OAuth and OpenID Connect (Login with Google/Facebook etc.) and building your own REST/GraphQL API's.

DevOps

Module outcome: Deploy your code, optimally, in any configuration, anywhere, automatically.

To do this you'll learn: Docker and Kubernetes; Build processes with Vite; Hosting with cloud service providers like AWS, Netlify or Heroku.



express



PostgreSQL



docker



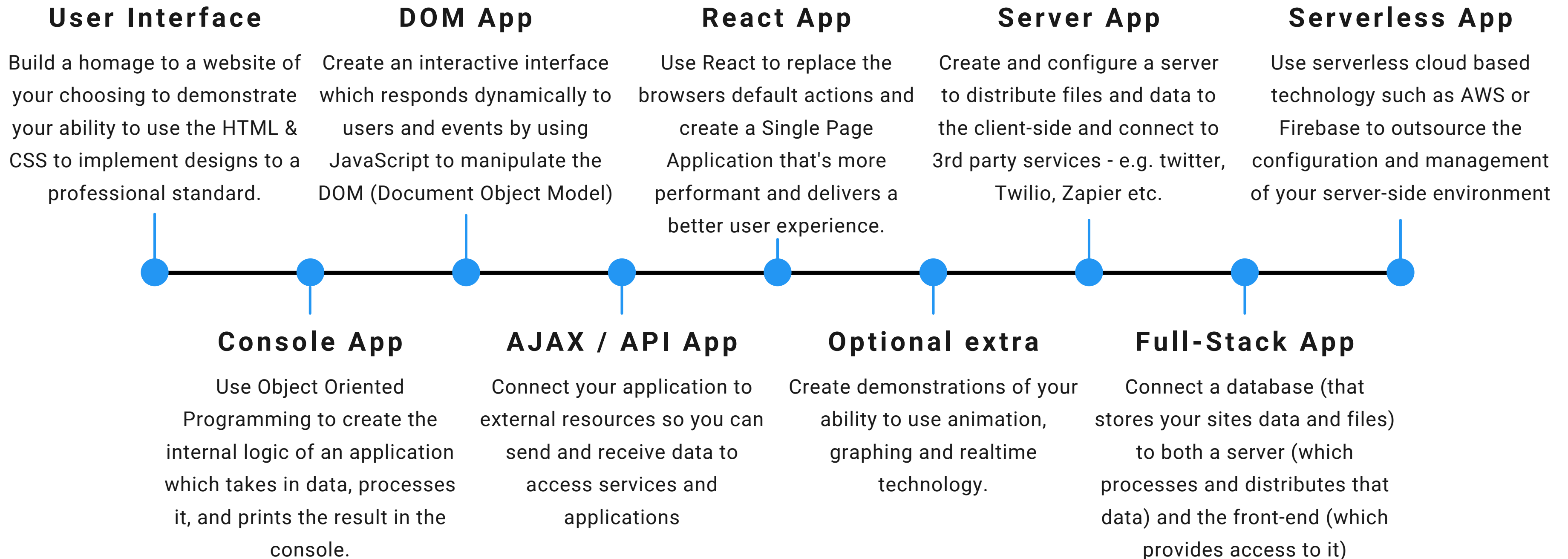
kubernetes



Projects you'll undertake

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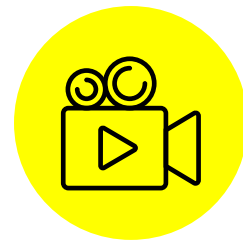
Build your portfolio to demonstrate the skills you've learnt



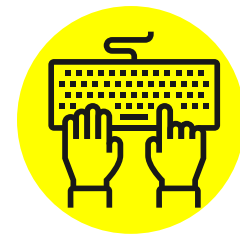
Course format

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We've made our courses as accessible as possible and have an excellent support system so that you can get the most from your time with us



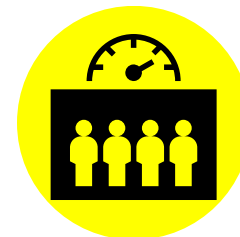
All lessons are live video recorded and shared after in case you miss a class or need to recap



Sessions are a mix of live, interactive, instructor-led training, code-alongs and practical work



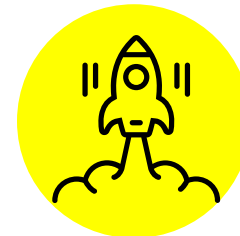
Taught live and remotely via Zoom so you can train from anywhere



Class sizes are kept comparatively small to give you more personalised support



Our instructors have an average of 15+ years experience as software engineers



No coding experience required - suitable for beginners as well as those with some experience

Part-Time vs Full-Time

We always recommend part-time training as it gives you more time to learn to a higher standard, however if full-time works better for you, then these are the key differences:

PART-TIME

2 x evening training sessions a week, 18:30-21:30 for 30 weeks (Mon & Wed or Tues & Thurs depending on which cohort you join)

~9 hours homework per week with support available from your Instructor and Teaching Assistant whenever you need it

No pre-work required

Option to participate in a Hackathon (coding challenge over 8 hours)

FULL-TIME

Mon to Fri for 12 weeks, one live-taught lecture per day, 11:00-14:00

Tasks and challenges will be set at the end of each training session, to be completed during the remainder of the day / evening

Pre-work required depending on the student's prior experience covering the basics of HTML/CSS

1 to 1 support will be available

Career-change support

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We pride ourselves on giving you the support you need, even after the bootcamp end date.
Support includes:

- ✓ Dedicated career-change support from **experienced recruiters**
- ✓ **Extensive resources** on where to look for roles and what roles to look for
- ✓ Guidance for **aligning** your GitHub and LinkedIn profiles
- ✓ Rewriting and reformatting your **CV**
- ✓ Strategy for raising your **LinkedIn profile**
- ✓ Strategy for identifying and **targeting potential employers**
- ✓ **Final portfolio review** before you start applying
- ✓ Free access to software for managing and **tracking your applications**
- ✓ **Interview prep** and practice for each interview stage
- ✓ Salary **negotiation** support
- ✓ Sharing any **opportunities** shared with us

Course fees

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Part-time (recommended)

£7,500

Payable over **30 weeks** if you are paying the fees directly without 3rd party financing

£750 deposit up to 2 weeks prior to start date followed by 6 x instalments of £1,125 payable on weeks 3, 8, 13, 18, 23 & 28

Immersive

£7,500

Payable over **11 weeks** if you are paying the fees directly without 3rd party financing

£2,500 deposit up to 2 weeks prior to start date followed by 2 x instalments of £2,500 payable on weeks 4 & 9

If this approach doesn't work for you then check out our **financing options on the next page.**

Financing

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If our instalment plan doesn't quite work for you, we're partnered with two third-party finance firms* who've helped a number of our students spread their payments



Click logo to start the process

Product type: Loan (with interest)

Deposit you pay: £750

How it works: You borrow an amount up to £6,750 which you pay back to Lendwise over 2 to 7 years (you choose). You can borrow less than £6,750 if you don't require the full amount

Examples: Borrowing £6,750:

Over 2 years: repay ~£320 per month

Over 4 years: repay ~£175 per month

Over 7 years: repay ~£115 per month



Speak to us to start the process
Limited Availability

Product type: Future Earnings Agreement (Study now, pay later)

Deposit you pay: £750

How it works: Instead of paying the remaining course fees over the duration of the course, you replace them with a commitment to repay 13.6% of your earnings across 36 repayment months, once you're in employment with gross annual earnings of at least £24K. The repayments are capped at the lower of £15,000 or the total amount collected across your 36 repayment months

On a salary of £35K: repay ~£396 per month

On a salary of £45K: repay £510 per month (at this salary, your repayments would be completed within ~ 30 repayment months)

Why choose us?

We get it. There are tons of courses to choose from, so how are we different?



Personalised support

Some schools put 150+ students in a class, or run online courses with no support. **We cap ours at 30**, (15 for full time), and run live, interactive sessions, and give you as much real-time personalised support as you need.



Commercially relevant

We focus your learning on what the market wants you to **know now**, not 5+ years ago. E.g. many schools teach Ruby. We don't. We teach you JavaScript because there are **~10 times more jobs for JavaScript Developers than Ruby Developers**.



More in-depth learning

Learning 2 languages may seem like a good idea, but it's not! You'll start mixing them up, and doubling the number of languages means halving the amount of time you'll spend on each one! **It's better to be really good at one language than average at two.**



Experienced instructors

Some schools use their recent graduates as instructors for the next cohort, whereas **all our instructors have 15+ years of software development experience**. They intuitively know the tech and offer wisdom that a junior developer won't have acquired yet.



As accessible as possible

We offer both **part-time** and **full-time** training to suit your needs; We **price the training at a discount** to the rest of the market; We run the training remotely so you can **learn from anywhere**; We **record every session**.

Contact us to apply

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If you have questions or would like to find out more: Simply call, text, WhatsApp or email us - whether you have specific questions or you're just curious, we're always happy to help 😊

If you're ready to apply: Our application process is really simple - It's just a phone conversation to make sure that you have all the information you need and that this is the right option for you (don't worry, there's no tech test or anything arbitrary like that).

Reach out today to start your journey



Call, text or WhatsApp us

(+44) 020 7310 8642

(+44) 7786 094 990 (Robert's Mobile)

Email us

info@thejump.tech

Visit us

<https://www.thejump.tech/>

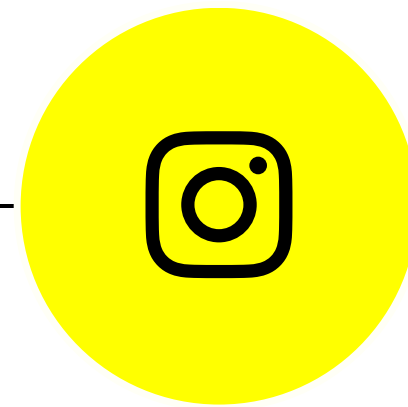
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We're a sociable bunch! Click the links below to follow our social media pages!



[Facebook](#)



[Instagram](#)



[LinkedIn](#)