

# Hackathon

A **hackathon** (also known as a **hack day**, **hackfest** or **codefest**) is a design sprint-like event in which computer programmers and others involved in software development, including graphic designers, interface designers, project managers, and others, often including subject-matter-experts, collaborate intensively on software projects.<sup>[1]</sup>

The goal of a hackathon is to create usable software. Hackathons tend to have a specific focus, which can include the programming language used, the operating system, an application, an API, or the subject and the demographic group of the programmers. In other cases, there is no restriction on the type of software being created.



Yahoo! Internal Hack Day Event at Yahoo! HQ (Sunnyvale, CA, USA), June 6, 2006

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## Etymology

The word "hackathon" is a portmanteau of the words "hack" and "marathon", where "hack" is used in the sense of exploratory programming, not its alternate meaning as a reference to computer crime. The term seems to have been created independently by both the developers of OpenBSD and the marketing team of Sun; these usages both first happened in 1999.

OpenBSD's apparent first use of the term referred to a cryptographic development event held in Calgary on June 4, 1999,<sup>[2]</sup> where ten developers came together to avoid legal problems caused by export regulations of cryptographic software from the United States. Since then, a further three-to-five events per year have occurred around the world to advance development, generally on university campuses.

For Sun, the usage referred to an event at the [JavaOne conference](#) from June 15 to June 19, 1999; there [John Gage](#) challenged attendees to write a program in [Java](#) for the new [Palm V](#) using the infrared port to communicate with other Palm users and register it on the Internet.

Starting in the mid to late 2000s, hackathons became significantly more widespread, and began to be increasingly viewed by companies and [venture capitalists](#) as a way to quickly develop new software technologies, and to locate new areas for innovation and funding.<sup>[1]</sup> Some major companies were born from these hackathons, such as [GroupMe](#), which began as a project at a hackathon at the [TechCrunch Disrupt 2010](#) conference; in 2011 it was acquired by [Skype](#) for \$85 million.<sup>[1]</sup> The software [PhoneGap](#) began as a project at the [iPhoneDevCamp](#) (later renamed [iOSDevCamp](#)) in 2008;<sup>[3]</sup> the company whose engineers developed PhoneGap, [Nitobi](#), refocused itself around PhoneGap, and Nitobi was bought by [Adobe](#) in 2011 for an undisclosed amount.<sup>[4]</sup>

## Structure

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Hackathons typically start with one or more presentations about the event, as well as about the specific subject, if any. Then participants suggest ideas and form teams, based on individual interests and skills. Then the main work of the hackathon begins, which can last anywhere from several hours to several days. For hackathons that last 24 hours or longer, especially competitive ones, eating is often informal, with participants often subsisting on food like [pizza](#) and [energy drinks](#). Sometimes sleeping is informal as well, with participants sleeping on-site with [sleeping bags](#).<sup>[1]</sup>

At the end of hackathons, there is usually a series of demonstrations in which each group presents their results. To capture the great ideas and work-in-progress often people post a video of the demonstrations, blog about results with screenshots and details, share links and progress on social media, suggest a place for open source code and generally make it possible for people to share, learn from and possibly build from the ideas generated and initial work completed. There is sometimes a contest element as well, in which a panel of judges select the winning teams, and prizes are given. At many hackathons, the judges are made up of organizers and sponsors. At [BarCamp](#)-style hackathons, that are organized by the development community, such as [iOSDevCamp](#), the judges are usually made up of peers and colleagues in the field. Such prizes are sometimes a substantial amount of money: a [social gaming](#) hackathon at the [TechCrunch Disrupt](#) conference offered \$250,000 in funding to the winners,<sup>[1]</sup> while a controversial<sup>[5]</sup> 2013 hackathon run by [Salesforce.com](#) had a payout of \$1 million to the winners, billed as the largest-ever prize.<sup>[6]</sup>

## Types of hackathons

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### For an application type

Some hackathons focus on a particular platform such as [mobile apps](#), a desktop operating system, [web development](#) or [video game development](#)

Mobile app hackathons like [Over the Air](#), held at [Bletchley Park](#), [England](#), can see a large amount of corporate sponsorship and interest.<sup>[7][8]</sup>

[Music Hack Day](#), a hackathon for music-related software and hardware applications, is a popular event, having been held over 30 times around the world since 2009.<sup>[9]</sup>

Also [Music Tech Fest](#), a three-day interdisciplinary festival for music ideas bringing together musicians with hackers, researchers and industry, features a hackathon.<sup>[10]</sup> Similarly, [Science Hack Day](#), a hackathon for making things with science, has been held over 45 times in over 15 countries around the world since 2010.<sup>[11]</sup>

Hackathons have been held to develop applications that run on various [mobile device](#) operating systems, such as [Android](#),<sup>[12]</sup> [iOS](#),<sup>[13]</sup> and [MeeGo](#).<sup>[14]</sup> Hackathons have also been held to develop video-based applications and computer games.<sup>[15]</sup> Hackathons where [video games](#) are developed are sometimes called [game jams](#).



Science Hack Day Nairobi 2012

"TV Hackfest" events have been held in both London<sup>[16]</sup> and San Francisco,<sup>[17]</sup> focusing mainly on social television and second screen technologies. In TV Hackfests, challenge briefs are typically submitted by content producers and brands, in the form of broadcast industry metadata or video content, while sponsors supply APIs, SDKs and pre-existing open source software code.<sup>[18]</sup>

Hackathons have also been used in the life sciences to advance the informatics infrastructure that supports research. The Open Bioinformatics Foundation ran two hackathons for its member projects in 2002 and 2003, and since 2010 has held 2-day "codefests" preceding its annual conference.<sup>[19]</sup> The National Evolutionary Synthesis Center has co-organized and sponsored hackathons for evolutionary bioinformatics since 2006.<sup>[20][21]</sup> BioHackathon<sup>[22]</sup> is an annual event that started in 2008 targeted at advancing standards to enable interoperable bioinformatics tools and Web services. Neuroscientists have also used hackathons to bring developers and scientists together to address issues that range from focusing on a specific information system (e.g., Neurosynth Hackathon<sup>[23]</sup> and the Allen Brain Atlas Hackathon<sup>[24]</sup>) and providing reserved time for broad scientific inquiry (e.g., Brainhack),<sup>[25]</sup> to using specific challenges that focus hacking activity (e.g., HBM Hackathon<sup>[26]</sup>).

## Using a specific programming language, API, or framework

There have been hackathons devoted to creating applications that use a specific language or framework, like JavaScript,<sup>[27]</sup> Node.js,<sup>[28]</sup> HTML5<sup>[29]</sup> and Ruby on Rails<sup>[30]</sup>

Some hackathons focus on applications that make use of the application programming interface, or API, from a single company or data source. Open Hack, an event run publicly by Yahoo! since 2006 (originally known as "Hack Day", then "Open Hack Day"), has focused on usage of the Yahoo! API, in addition to APIs of websites owned by Yahoo!, like Flickr.<sup>[31]</sup> The company's Open Hack India event in 2012 had over 700 attendees.<sup>[32]</sup> Google has run similar events for their APIs,<sup>[33]</sup> as has the travel guide company Lonely Planet.<sup>[34]</sup>

The website Foursquare notably held a large, global hackathon in 2011, in which over 500 developers at over 30 sites around the world competed to create applications using the Foursquare API.<sup>[35]</sup> A second Foursquare hackathon, in 2013, had around 200 developers.<sup>[36]</sup> The IETF organizes Hackathons for each IETF meeting with are focused on IETF Internet Draft and IETF RFC implementation for better interoperability and improved Internet Standards!<sup>[37]</sup>

## For a cause or purpose

There have been a number of hackathons devoted to improving government, and specifically to the cause of open government.<sup>[38]</sup> One such event, in 2011, was hosted by the United States Congress.<sup>[39]</sup> Starting in 2012, NASA has been annually hosting the International Space Apps Challenge

In 2014, the British government and HackerNest ran DementiaHack,<sup>[40]</sup> the world's first hackathon dedicated to improving the lives of people living with dementia and their caregivers.<sup>[41][42]</sup> The series continues in 2015, adding the Canadian government and Facebook as major sponsors!<sup>[43]</sup>

The Global Game Jam, the largest video game development hackathon,<sup>[44]</sup> often includes optional requirements called 'diversifiers'<sup>[45]</sup> that aim to promote game accessibility and other causes.

Various hackathons have been held to improve city transit systems.<sup>[46]</sup> Hackathons aimed at improvements to city local services are increasing, with one of the London Councils (Hackney) creating a number of successful local solutions on a 2 Day Hackney-thon<sup>[47]</sup> There have also been a number of hackathons devoted to improving education, including Education Hack Day<sup>[48]</sup> and on a smaller scale, looking specifically at the challenges of field work based geography education, the Field Studies Council<sup>[49]</sup> hosted FSCHackday.<sup>[50]</sup> Random Hacks of Kindness is another popular hackathon, devoted to disaster management and crisis response.<sup>[51]</sup> ThePort<sup>[52]</sup> instead is a hackathon devoted to solving humanitarian, social and public interest challenges. It's hosted by CERN with partners from other non-governmental organizations such as ICRC and UNDP.



Hackers.mu remotely working on TLS 1.3 during the IETF 100 Hackathon



Developers at the 2011 Rewired State "National Hack the Government Day"

## As a tribute or a memorial

A number of hackathons around the world have been planned in memory of computer programmer and internet activist Aaron Swartz, who died in 2013.<sup>[53][54][55][56]</sup>



The judging panel (seated, left) at DementiaHack asking questions of a team that just demoed their project (standing, right).

## For a demographic group

Some hackathons are intended only for programmers within a certain demographic group, like teenagers, college students,<sup>[1]</sup> or women.<sup>[57]</sup>

Hackathons at colleges have become increasingly popular, in the United States and elsewhere. These are usually annual or semiannual events that are open to college students at all universities. They are often competitive, with awards provided by the University or programming-related sponsors. Many of them are supported by the organization Major League Hacking, which was founded in 2013 to assist with the running of collegiate hackathons.

PennApps at the University of Pennsylvania was the first student-run college hackathon; in 2015 it became the largest college hackathon with its 12th iteration hosting over 2000 people and offering over \$60k in prizes.<sup>[58][59]</sup> The University of Mauritius Computer Club and Hackers.mu organized a Hackathon dubbed "Code Wars" focused on implementing an IETF RFC in Lynx in 2017.<sup>[60][61]</sup>

ShamHacks at Missouri University of Science and Technology is held annually as an outreach activity of the campus's Curtis Laws Wilson Library. ShamHacks 2018<sup>[62]</sup> focused on problem statements to better quality of life factors for US veterans, by pairing with veteran-owned company sponsors.<sup>[63]</sup>

## For internal innovation and motivation

Some companies hold internal hackathons to promote new product innovation by the engineering staff. For example, Facebook's Like button was conceived as part of a hackathon.<sup>[64]</sup>

## To connect local tech communities

Some hackathons (such as StartupBus, founded in 2010 in Australia) combine the competitive element with a road trip, to connect local tech communities in multiple cities along the bus routes. This is now taking place across North America, Europe, Africa and Australasia.<sup>[65]</sup>

## Code sprints

In some hackathons, all work is on a single application, such as an operating system, programming language, or content management system. Such events are often known as "code sprints", and are especially popular for open source software projects, where such events are sometimes the only opportunity for developers to meet face-to-face.<sup>[66]</sup>

Code sprints typically last from one week to three weeks and often take place near conferences at which most of the team attend. Unlike other hackathons, these events rarely include a competitive element.

## Examples of code sprints

- This was pioneered by the Zope, who completed in excess of 30 sprints between January 2002 and January 2006.<sup>[67]</sup>
- The annual hackathon to work on the operating system OpenBSD, held since 1999, is one such event; it was a pioneering hackathon that may have originated the word "hackathon".
- Programming languages that have had such hackathons include Perl (for both development<sup>[68]</sup> and QA<sup>[69]</sup>), Haskell<sup>[70]</sup>, Scala<sup>[71]</sup> and the PyPy interpreter for Python.<sup>[72]</sup>
- LibreOffice,<sup>[73]</sup> Drupal<sup>[74]</sup> and MediaWiki<sup>[75]</sup> are other applications that hold development hackathons.

## Controversies

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- A team at the September 2013 TechCrunch Disrupt Hackathon presented the TitStare app, which allowed users to post and view pictures of men staring at women's cleavage.<sup>[76]</sup> TechCrunch issued an apology later that day.<sup>[77]</sup>
- A November 2013 hackathon run by Salesforce.com, billed as having the largest-ever grand prize at \$1 million, was accused of impropriety after it emerged that the winning entrants, a two-person startup called Upshot, had been developing the technology that they demoed for over a year and that one of the two was a former Salesforce employee.<sup>[5]</sup>
- Major League Hacking expelled a pair of hackers from the September 2015 hackathon Hack the North at the University of Waterloo for making jokes that were interpreted as bomb threats, leading many hackers to criticize the organization.<sup>[78]</sup> As a result of the controversy Victor Vucicevich resigned from the Hack the North organizing team.<sup>[79]</sup>

## See also

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- Game Jam
- Installfest
- Editathon
- Charrette
- Startup Weekend
- Campus Party

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