

A new emulator app in the App Store means you can now play MAME ROMs on an iPhone, iPad, or Mac. Here's how to get started. April 2025 marks a year since Apple allowed game emulators rushed to the App Store. But, while many emulators rushed to the App Store. But, while many emulators rushed to the App Store. But, while many emulators apple allowed game emulators rushed to the App Store. But, while many emulator source game emulator, wasn't allowed as an iPhone or iPad app for a long time. The restrictions of the App Store prevented it from existing, even after Apple Silicon app for it. One effort, MAME4iOS, has tried hard to bring MAME to the platform, and the project struggled for a long time with being caught up in various App Store rules. After the maintainers resubmitted the app under the name "ArcadeMania" in September 2024, the effort continued to have repeated rejections from Apple. At that time, Apple objected to ROMs that the app could use. By March 2025, mame4iOS was submitted again, using ROMs specifically created by the team itself to get the app through the App Store Review process. However, on April 11, 2025, ArcadeMania finally arrived on the App Store as a downloadable emulator app. What is ArcadeMania is a free emulator that uses version 0.269 of MAME as the emulation core. This means it can support over 5,000 arcade games that are already compatible with MAME on other devices. Playing a game in ArcadeMania on an iPhoneThe version offered in the App Store also includes support for light gun games, by users tapping the screen instead of using a peripheral. The app also supports other MAME features like save states and enabling cheats. For the iOS version, there's support for HDR content, custom shaders were produced, as well as a native Metal graphics renderer. A word on ROMsArcadeMania doesn't actually ship with any of those 5,000 game ROMs, but there is a custom ROM included for testing purposes. The reason behind the lack of content is due to the extremely grey legal area that emulation exists inside. ROMs of games are, basically, copyrighted works produced by a company for commercial purposes. generally frowned upon by the various legal systems around the world, including any of them in the app would be effectively permitting piracy. Depending on the local laws, a user may be able to secure a ROM of a game and to play it. This typically takes the form of owning a copy and the world, including any of them in the app would be effectively permitting piracy. of the game itself, such as an arcade's physical circuit board. For similar reasons, the same emulators don't often include mechanisms to download ROMs on your behalf. Instead, it's something that the user will have to track down for themselves then add to the emulator. Due to the questionable legal nature of this, AppleInsider will not be explaining where to get them either. However, MAME's website does offer some ROMs for download that have been approved for free download by their owners. AppleInsider strongly advises that anyone attempting to run a ROM on an emulator should be aware of local laws associated with the practice. How to emulate using ArcadeMania on iOS and iPadOSFirst, download ArcadeMania. It is available for free from the App Store for iPhone and iPad. While you can install the iPad version on a Mac, the app is installed, open it, then tap Menu followed by Settings. This screen will bring up a list of video options, such as maintaining aspect ratios or video filters. How to import ROMs into ArcadeMania on iOS and iPadOSInside ArcadeMania, tap Menu, then Settings. Adding a ROM to ArcadeMania will then display a list of recently-played ROM files. Select the ROM to start playing it. How to play the gamesUse the controls at the bottom half of the screen to interact with the game. By default, there's a joystick and some action buttons, but you can add other controllers via the Settings menu under Menu. There is also a row representing the app's menu, a Start button, a Coin button to "insert coin" like an arcade cabinet, and an Exit button to get out of the game. The Menu button offers many other controls beyond the Settings option, including pausing the game, separate Player Two start buttons, a keyboard, and soft power and reset options. Be aware that you can use the on-screen controls while out and about, but you can also use it with external game controllers. In testing, pairing a PlayStation 5 DualSense wireless controller worked immediately, and was very responsive. What a time to be alive: emulation has officially arrived on iOS. This means iPad and iPhone owners can enjoy a variety of virtual game consoles directly on their device and Apple is totally cool with it. As exciting as this may be, there is a lot to know about this subject and what exactly this new change from the tech giant means. Today, lets explore emulation: what it is, how to use it, and even the legality behind playing old games on an Apple device. Apple made a change to the App Store. While Android users may be rolling their eyes, Apple fans are ecstatic to enter the world of emulation. Now, users are able to recreate their favorite consoles, such as ones made by Nintendo, Microsoft, and Sony, directly on their iPhones and iPads. before diving in. While a lot of classic gaming consoles require very little work to get going, youre not going to be able to launch the Delta app and immediately play Tetris on a Game Boy. If youre new to the world of emulation, continue reading to learn more. Before you can gain access to a variety of retro and classic games, its important to understand the difference between an emulator and a ROM. If youre new to this kind of gaming, you will need an emulator to emulate the type of system you want to play. For example, if you wanted to play the Hideo Kojima masterpiece Metal Gear Solid, you would need a PlayStation emulator and a ROM for the game. One nice thing about emulation is that it is capable of expanding the limitations of the original hardware. Things such as custom save states, cheat codes, and even the ability to fast-forward are some of the usual options for these programs, which can be a great way for a familiar game to feel brand new. Typically, ROMs are going to come in an extractable file such as .ZIP, although file types for ROMs will vary depending on what type of system it is meant for. As an example, a Game Boy Advance ROM may likely have a .GBA extension. Its also worth noting that once you have found a ROM, adding them to the emulator is rather easy. Most of the time, you can download ROMs directly through your iPhones web browser. One important thing to know about emulators is that they may require BIOS files. This typically applies to newer systems, such as the Nintendo DS requiring them within the Delta emulator app. A BIOS file can help a game boot properly, while also providing checks and balances within the system. Unfortunately, these files typically fall under copyright protection as well, so sharing them can usually be spotty. Of course, just like ROMs, finding these files elsewhere online isnt much of a challenge. Emulation and ROMs are in a legal grey area within the U.S. While emulation isnt illegal, ROMs (and BIOS files), on the other hand, are often considered copyright infringement. So while there is nothing stopping me from telling you how to access a PlayStation 2 emulator, I could get in big trouble if I showed you where to download the game Zone of the Enders. Even if you own a physical copy of a game, downloading the ROM can still be considered copyright infringement. It really depends on the game company. However, be aware that the gaming community is rather passionate about preserving its history, and finding a reputable site to download ROMs can be pretty easy. Keep in mind that since this is a copyright matter, ROMs are not outright illegal. For example, HomeBrew Hub provides plenty of games created by the community that are absolutely kosher to share and download. For those with a true passion for gaming, there is plenty of great content to enjoy directly from the community. Of course, people also mod games, or create custom variations of their favorite games. This is incredibly popular in the Pokmon franchise, for example, but modified games may also break copyright laws.
Essentially, sharing ROMs can get you in some hot water, but when it comes to downloading and playing them, exercising proper caution will be the way to go. For older games, virtually all of them are going to work without issues. However, modern gaming is a bit trickier. For example, while you can emulate Nintendo 3DS games through the Delta app, your actual mileage may vary due to a variety of factors. Personally, I found it annoying attempting to download a 3.5 GB Nintendo 3DS games through the Delta app. Hardware limitations may also change an experience, so dont expect the best results when it comes to emulator essential, as it require larger space for ROMs or more advanced processing power. For those who want to get in on the action, we have a detailed guide on how to get the Delta app up and running. I would consider this emulator essential, as it covers a wide variety of Nintendo consoles. We also have a great guide on PlayStation 2 emulators, but bear in mind some of these may still need quite a bit of work. There is a great amount of room for growth now that Apple allows emulators in the Apple allows emulators emulators in the Apple allows emulators emula while before your favorite video game system arrives on iPhone, the offerings available now suggest there is plenty more to come. In fact, you can read more about PlayStation, SEGA, Wii games, and more coming to iOS soon. This page was updated on 5/17/24 to include information on how to access the PPSPP and RetroArch emulators on iPhone. Game emulation has been a tried and true pastime on PCs and Macs for a while now, but its a whole new frontier for folks who are only used to their regular, unmodified iPhone. Apple updated its rules earlier this month, and now theres a building wave of old console emulators streaming onto iOS. If youre getting ready to surf the wave and its your first time on a board, you might need a quick rundown of just what youre getting into. Since Apple changed its App Store policies to allow game emulators, weve seen a whirlwind of new apps try to make their way onto the platform. As fun as that sounds, Apple yoinked several off the platform once it became clear they were running software stolen from other creators. However, we now have a fair few well-developed emulator apps capable of running several kinds of ROMs (AKA read-only memory), including old NES and Commodore 64 titles. Given time (and Apple doesnt turn around and squash this new frontier of iOS emulators), we should see many more making their way to Apples phone ecosystem. This is why theres probably a whole slew of first-time folks looking to see if they can jump on this emulation hype train just before it leaves the station. In that case, relax. Emulating is quite an easy process, though perhaps more so on some apps than others. It involves finding the right ROM, downloading it to your iPhone, and then loading it to enjoy the sweet joys of gamings past. Which Emulators Are Currently Available on iOS? Photo: Kyle Barr / Gizmodo The reason why iOS emulation has proved so difficult is mostly due to Apples walled garden. It severely restricts third-party app stores, and downloading unauthorized programs from websites can prove a pretty big hassle. Just this past week, Apple was forced to allow the first third-party app store called AltStore PAL onto iOS if you happen to live in the EU, though more such asEpic Games shop should be coming soon, according to the publisher. Despite Apples tacit approval, theres been a lot of turnover on the iOS emulation front. For instance, the developer of NES emulator Bimmy, Tom Salvo, released his app on iOS a week after Apple made its decree but then quickly pulled it, telling the MacRumors forums he would rather not have the risk. This suggests that some developers are concerned about being hunted down by Apple or legacy publishers, such as litigation-happy Nintendo. There was also iGBA, an emulator removed from the marketplace once legacy app developer Riley Testut (who also released AltStore PAL) accused it of stealing his code from an older iOS, such as Folium. That app is best described as a launching platform for multiple emulators Theres also Provenance, whose developers announced on Twitter their plans to get their PlayStation and Sega system emulator onto the App Store. At this time, theres also Emu64XL, a Commodore 64 emulator that comes pre-loaded with a few C64 demo discs. It takes a bit more finesse to get working, but it shouldnt prove too difficult if you have a little patience. In fact, the emulator has its own video tutorial available linked in app. Its an exciting time, to be sure, but for now, were rather limited in which apps work best for different games. The few apps that are available run the gamut between difficult to use and almost too easy. Lets start with the easy one. Delta Screenshot: Kyle Barr / Gizmodo While that leaves a dearth of Nintendo-based emulators available, thankfully, theres Testuts new emulator app, Delta. After a few days of use, its proved to be a simple, effective, and stable platform for playing anything from NES, SNES, Nintendo 64, Game Boy Color, Game Boy Advance, and Nintendo DS. Testut wrote on the store page he plans on adding more support for more consoles in the near future, so as long as the app remains officially available, things should only get better for iOS emulation. Delta does support save states and a whole swathe of different controllers. While the app also lets you style your in-game touch controllers with different digital skins, it doesn't come with any ROMs natively. For that, youll have to look elsewhere. First, download the ROM to your iPhone. The easiest way to access it is to stick it in Files and find your ROMs. Clicking on it should load it into the app, where playing it is as simple as hitting the app from the main screen. PPSPP Screenshot: Kyle Barr / Gizmodo As the name implies, PPSPP is an emulator specifically tailored to running the old Sony PSP, the long-in-the-grave but oft-remembered PlayStation handheld. Theres a tutorial directly within the App under the button How can I get games? However, if you want to download the ISO file directly onto your iPhone and load it into the app, look on the right under Load If you want to do it from your Mac, youll need to connect your phone to the app. You should be able to load the game from the main menu. You may have to hit the Refresh icon at the top to see it appear. RetroArch Screenshot: Kyle Barr / Gizmodo If youre looking for something more broad, youd definitely want to check out RetroArch. The app is essentially a frontend for a number of different emulators, including PPSPP, as well as emulators for consoles from the Atari 2600 up through the Sega Genesis all the way up to the original PlayStation. The app is currently available for iOS and tvOS, though the creators said they were working on a macOS version. However, theres currently no ETA for when well get access. Despite its rather clunky UI, its actually pretty simple to operate. To use it, youll need to choose both the ROM or other file as well as the core, which accounts for the different emulator models available on the app. If I want to play theoriginal NES Ice Climbers, Ill need to look in my phones files for the ROM and then select one of four separate NES emulators. In the game, if you want to return to the main menu, hit the little RetroArch icon in the center of the fake control pad. Which Emulators are Not Coming to iOS? As excited as we all are to get emulators on iPhone, there are a few of the most popular platform. Chief among them is Dolphin, which is easily one of the most popular emulators for Gamecube and Wii titles. A few weeks after Apples terms changed, Dolphin clarified on its blog that Apple still restricts third-party developers from trying to use the Cupertino companys ARM-based CPU infrastructure. Dolphin has to recompile the Gamecube and Wiis PowerPC-based processors over to the ARM-based CPU infrastructure. party apps. The developers said the built-in separate PowerPC interpreter is too slow to be useful, resulting in massive framerate dips and stuttering. Dolphins creators said they would move the emulator onto iOS in a heartbeat, but it isnt possible unless Apple loosens their restrictions on JIT. What is the Legality of Emulation? Photo: Kyle Barr / Gizmodo If youre concerned about being hunted down by publishers lawyers sporting t-shirts reading You wouldnt steal a handbag thats not to say that game emulation doesnt exist within a strange gray area of copyright law. Emulators themselves are only recreations of existing consoles, as long as theyre made with their own code and not stolen from the console itself. However, that might not apply to those emulators who have had to copy the BIOS of the original console. Of course, the average downloading the program through the App Store, it becomes Apples job to worry about the legal minutia. It gets especially complicated for those emulating much more recent consoles. Take Yuzu, the famed Nintendo Switch emulator is now caput, so dont expect to take Legend of Zelda: Breath of the Wild on the go without a Switch in hand anytime soon. The same goes for the Nintendo 3DS emulator Citra, which developers took down in the high-profile fallout from Yuzus demise. Thats not to say Apple is incentivizing anybody to downloading it is certainly breaking the rights holders copyright. There are also a few ROMs out there that are creators own work, which doesnt break any copyright whatsoever. Where Can I Get Different Game ROMs? This is an especially touchy subject, and since were not keen to fall under Nintendo or any other publishers evil eye, we can only offer advice instead of direct links. See, theres nothing inherently illegal (at least for the time being) about the emulator apps themselves, but the ROMs themselves are indeed digital copies of old cartridges that can violate the
copyright of those who still own the rights to those games. Instead, your best bet is to check what the most notorious ROM collection communities have to say. The worst thing you could do is start downloading anything from random sites without checking to see if the link and person who made it are legit. Theres the database at Emulation General Wiki that can provide you a solid jumping off point. r/Roms is also a good place to find new repositories of files, but always make sure theyre a trusted source before putting any new files on your phone. The Internet Archive is a great repository for old ROMs as well. If you want up-to-date information on PC. He has a few suggestions of where to find quality translations as well as English-language ROMs. But dont think that these emulators are only good for finding classic titles. Theres a large and ever-growing library of excellent homebrew NES title Alwas Awakening, and even if youre only interested in listening to some excellent chiptune music, its well worth downloading the demo and giving it a go before deciding to pay for the whole game. Its truly a wild west out there for game emulation. If you want to stake your claim, keep yourself informed about what youre downloading and how youre accessing and playing your games. , the free encyclopedia that anyone can edit.117,937 active editors 7,000,948 articles in EnglishThe English-language Wikipedia thanks its contributors for creating more than seven million articles! Learn how you can take part in the encyclopedia's continued improvement. And rea vounger than was normal at the time. He edited manuscripts at the Aldine Press, garnering a reputation as a scholar and a highly skilled writer. In 1515, he was appointed the official historian of the Republic of Venice as well as the caretaker of a library containing the collection of the scholar Bessarion. Navagero was named the Venetian ambassador to Spain in 1523 and navigated the volatile diplomatic climate caused by the conflict between CharlesV of Spain and FrancisI of France. By the time Navagero arrived back in Venice in 1528, he had grown disillusioned with politics and wished to return to editing manuscripts and cultivating his prized gardens. Much to his dismay, he was appointed ambassador to France in January 1529. After traveling to meet with FrancisI, he fell ill and died that May. (Fullarticle...)Recently featured: Nosy KombaMcDonnell Douglas Phantom in UK serviceTransportation during the 2024 Summer Olympics and ParalympicsArchiveBy emailMore featured articlesAboutEngraving of the Great Pyramid of Giza... that the 1572 Eight Wonders of the World (engraving pictured) is the source of the modern list of classical Seven Wonders of the World?... that the Alfonsine Ordinances punished Jews and Muslims with enslavement if they disguised their identity with the intention of "sinning with Christian women"?... that even though he had never seen a field hockey game, Willy Miranda became a high school coach and went on to win over 450 games across a 42-year tenure?... that a false viral rumour claimed 42 people committed suicide after their homoerotic fan art was included in the film Crazy About One Direction?... that an Arizona TV station put a satellite dish in a vacant swimming pool?... that 42 years after Jilly Cooper's How to Stay Married was first published, she described it as "terribly politically incorrect"?... that wrestler Kurt Howell won all 108 of his matches in high school?... that the second-place candidate in the 2018 Taipei mayoral election lost by just 0.23%, demanded a recount, and ended up losing by even more? ArchiveStart a new articleNominate an articleNog wa Thiong'o (pictured) dies at the age of 87. In sumo, nosato Daiki is promoted to yokozuna. In association football, Liverpool win the Premier League title. In motor racing lex Palou wins the Indianapolis 500.Ongoing: Gaza warM23 campaignRussian invasion of UkrainetimelineSudanese civil wartimelineRecent deaths: Phil RobertsonMary K. GaillardPeter DavidAlan YentobGerry ConnollySebastio SalgadoNominate an articleMay 29: Feast day of Saint PaulVI (Catholicism)Headline in the New York Times1233 Mongol Jin War: The Mongols entered and began looting Kaifeng, the capital of the Jin dynasty of China, after a 13-month siege.1416 A squadron of the Venetian naval superiority in the Aegean Sea for the next few decades.1913 During the premiere of the ballet Le Sacre du printemps by Igor Stravinsky at the Thtre des Champs-lyses in Paris, the avant-garde nature of the music and choreography caused a near-riot in the audience (report pictured).1999 Charlotte Perrelli, representing Sweden, won the Eurovision Song Contest, the first edition not to feature an orchestra or live accompaniment.2011 Residents of Portland, Oregon, held a rally called Hands Across Hawthorne in response to an attack against a gay couple holding hands while crossing the Hawthorne Bridge.Benedetto Pistrucci (b.1783)G.K. Chesterton (b.1874)Hubert Opperman (b.1904)Uro Drenovi (d.1944)More anniversaries: May 28May 29May 30ArchiveBy emailList of days of the yearAboutThe Australian white ibis (Threskiornis molucca) is a wading bird of the ibis family, Threskiornithidae. It is widespread across much of Australia, and has a predominantly white ibis is a native Australian bird. Due to its increasing presence in the urban environment and its habit of rummaging in garbage, the species has acquired a variety of colloquial names such as "tip turkey" and "bin chicken". This Australian white ibis was photographed at the Royal Botanic Garden, Sydney. Photograph credit: Charles J. Gate BridgeAnemonoides blandaBluespotted ribbontail rayArchiveMore featured picturesCommunity portal The central hub for editors, with resources, links, tasks, and announcements. Village pump Forum for discussions about Wikipedia itself, including policies and technical issues. 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Wikipedia is written by volunteer editors and hosted by the Wikimedia Foundation, a non-profit organization that also hosts a range of other volunteer projects: CommonsFree media repository MediaWikiWiki software development Meta-WikiWiki software development content library WikispeciesDirectory of species WikiversityFree learning tools WikivoyageFree travel guide WiktionaryDictionary and thesaurusThis Wikipedias are available; some of the largest are listed below. 1,000,000+ articles DeutschEspaolFranaisItalianoNederlandsPolskiPortugusSvenskaTing Vit 250,000+ articles Bahasa IndonesiaBahasa MelayuBn-lm-gCataletinaDanskEestiEsperantoEuskaraMagyarNorsk bokmlRomnSimple EnglishSloveninaSrpskiSrpskohrvatskiKurdLatvieuLietuviNorsk nynorskShqipSlovenina Retrieved from " 2Calendar yearYearsMillennium2ndmillenniumCenturies12thcentury13thcentury13thcentury12thcentury12thcentury12thcentury12thcentury13thcentury12thcentury13t DisestablishmentsArt and literature1233 in poetryvte1233 in various calendar5983Balinese saka calendar12541155Bengali calendar639640Berber calendar2183English Regnal year17Hen.318Hen.3Buddhist calendar1777Burmese calendar595Byzantine calendar67416742Chinese calendar2399Ethiopian calendar2399Ethiopian calendar49934994Hindu calendar595Byzantine calendar67416742Chinese calendar2399Ethiopian calendar12251226Hebrew calendar49934994Hindu calendar595Byzantine calendar67416742Chinese calendar43334334Holocene calendar11233Igbo calendar233234Iranian calendar611612Islamic calendar630631Japanese calendar1421143Julian calendar17751776Tibetan calendar17751776Tibetan calendar17751776Tibetan calendar17751776Tibetan calendar630631Japanese calendar1421143Julian calendar1233MCCXXXIIIKorean calendar679 before ROC679Nanakshahi calendar235Thai solar calendar17751776Tibetan calendar630631Japanese calendar679 before
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Cyprus is wholly restored under the rule of the 16-year-old King Henry I ("the Fat"). His vassals are rewarded, and loans that they have made are repaid.[1]August 20 Oath of Bereg: King Andrew II of Hungary vows to the Holy See that he will not employ Jews and Muslims to administer royal revenues, which causes diplomatic complaints and ecclesiastical censures.[2]Winter Reconquista: King Ferdinand III of Castile ("the Saint") conquers the cities of Trujillo and beda. The Castilian army besieges the city of Peniscola. Ferdinand forces Ibn Hud, ruler of the Taifa of Zaragoza, to sign a truce.[3]August Richard Marshal, 3rd Earl of Pembroke, signs an alliance with Llywelyn the Great, to join forces to revolt against King Henry III. Richard is faced by demands from royal bailiffs in September where the garrison of Usk Castle is force of Welsh and English rebels. Several of Henry's supporters are captured, and the castle is returned to Hubert de Burgh, one of the rebels.May 29 MongolJin War: The Mongol army led by gedei Khan captures Kaifeng, capital of the Jin dynasty ('Great Jin'), after the 13-month Siege of Kaifeng (1232). The Mongols plunder the city, while Emperor Aizong of Jin flees for the town of Caizhou. Meanwhile, gedei departs and leaves the final conquest to his favoured general, Subutai. December Siege of Caizhou and ally themselves with the Chinese Song dynasty to eliminate the Jin Dynasty. Gendt receives its city rights from Otto II ("the Lame"), count of Guelders (modern Netherlands).Pope Gregory IX establishes the Papal Inquisition, to regularize the persecution of heresy.June/July Ibn Manzur, Arab lexicographer and writer (d. 1277)Adelaide of Burgundy, duchess of Brabant (d. 1285)October Al-Nawawi, Syrian scholar, jurist and writer (d. 1277)Adelaide of Burgundy, duchess of Brabant (d. 1285)October Al-Nawawi, Syrian scholar, jurist and writer (d. 1277)Adelaide of Burgundy, duchess of Brabant (d. 1285)October Al-Nawawi, Syrian scholar, jurist and writer (d. 1277)Adelaide of Burgundy, duchess of Brabant (d. 1285)October Al-Nawawi, Syrian scholar, jurist and writer (d. 1285)October Al-Nawawi, Syrian scholar, jurist and writer (d. 1277)Adelaide of Burgundy, duchess of Brabant (d. 1285)October Al-Nawawi, Syrian scholar, jurist and writer (d. 1277)Adelaide of Burgundy, duchess of Brabant (d. 1285)October Al-Nawawi, Syrian scholar, jurist and writer (d. 1285)October Al-Nawawi, Syri 1273)Choe Ui, Korean military leader and dictator (d. 1258)Ibn al-Quff, Ayyubid physician and surgeon (d. 1286)Sancho of Castile, archbishop of Toledo (d. 1261)January 18 Yang (or Gongsheng), Chinese empress (b. 1162)February 12 Ermengarde de Beaumont, queen of ScotlandMarch 1 Thomas I (or Tommaso), count of Savoy (b. 1178)May Simon of Joinville, French nobleman and knight (b. 1175)June Yolanda de Courtenay, queen consort of HungaryJuly 8 Konoe Motomichi, Japanese nobleman (b. 1160)July 26 Wilbrand of Oldenburg, prince-bishop of UtrechtJuly 27 Ferdinand (or Ferrand), count of Flanders (b. 1188)July 29 Savari de Maulon, French nobleman (b. 1181)July 30 Konrad von Marburg, German priest (b. 1180)October 8 Ugo Canefri, Italian health worker (b. 1180)October 8 Ugo (b. 1164)Ibn al-Athir, Seljuk historian and biographer (b. 1160)Bertran de Born lo Filhs, French troubadour (b. 1179)Bohemond IV ("the One-Eyed"), prince of Antioch (b. 1175)Gkbri ("Blue-Wolf"), Ayyubid general and ruler (b. 1154)Guilln Prez de Guzmn, Spanish nobleman (b. 1180)John Apokaukos, Byzantine bishop and theologianMathilde of Angoulme, French noblewoman (b. 1181)Sayf al-Din al-Amidi, Ayyubid scholar and jurist (b. 1156)William Comyn, Scoto-Norman nobleman (b. 1163)^ Steven Runciman (1952). A History of The Crusades. Vol III: The Kingdom of Acre, pp. 169170. ISBN 978-0-241-29877-0.^ Berend, Nora (2001). At the Gate of Christendom: Jews, Muslims and "Pagans" in Medieval Hungary, c. 1000-c.1300. Cambridge University Press. p.158. ISBN978-0-521-02720-5. Lourie, Elena (2004). Jews, Muslims, and Christians in and around the Crown of Aragon: essays in honour of Professor Elena (2004). Jews, Muslims, and Christians in and around the Crown of Aragon: essays in honour of Professor Elena Lourie. Brill. p.270. ISBN90-04-12951-0. [permanent dead link]Retrieved from " 30ne hundred years, from 1101 to 1200See also: Renaissance of the 12th centuryMillennia2ndmillenniumCenturies11thcentury12thcentury13thcentury1 Hemisphere at the beginning of the 12th century The 12th century is the period from 1101 to 1200 in accordance with the Julian calendar. In the history of European culture, this period is considered part of the High Middle Ages and overlaps with what is often called the "Golden Age' of the Cistercians". The Golden Age of Islam experienced significant development, particularly in Islamic Spain. In Song dynasty China, an invasion by Jurchens caused a political schism of north and south. The Khmer Empire of Cambodia flourished during this century, while the Fatimids of Egypt were overtaken by the Ayyubid dynasty. Following the expansions of the Ghaznavids and Ghurid Empire, the Muslim conquests in the Indian subcontinent took place at the end of the century. The Ghurid Empire converted to Islam from Buddhism. 1101: In July, the Treaty of Alton is signed between Henry I of England and his older brother Robert, Duke of Normandy in which Robert agrees to recognize Henry as king of England in exchange for a yearly stipend and other concessions. The agreement temporarily ends a crisis in the succession of the Anglo-Norman kings.11011103: David the Builder takes over Kakheti and Hereti (now parts of Georgia).1102: King Coloman unites Hungary and Croatia under the Hungary and Croatia under the Hungary and Croatia under the Builder takes over Kakheti and Hereti (now parts of Georgia).1102: King Coloman unites Hungary and Croatia under the Hunga convened by King David the Builder in Urbnisi to reorganize the Georgian Orthodox Church.1104: In the Battle of Ertsukhi, King Jayawarsa of Kadiri (on Java) ascends to the throne.[citation needed]1106: Battle of Tinchebray.11071111: Sigurd I of Norway becomes the first Norwegian king to embark on a crusade to the Holy Land. He fights in Lisbon and on various Mediterranean isles and helps the King of Jerusalem to take Sidon from the Muslims.1108: By the Treaty of Devol, signed in September, Bohemond I of Antioch has to submit to the Byzantine Empire, becoming the vassal of Alexius I.1109: On June 10, Bertrand of Toulouse captures the County of Tripoli (northern Lebanon/western Syria).1109: In the Battle of Nako, Boleslaus III Wrymouth defeats the Pomeranians and re-establishes Polish access to the sea.1109: On August 24, in the Battle of Hundsfeld, Boleslaus III Wrymouth defeats the Pomeranians and re-establishes Polish access to the sea.1109: On August 24, in the Battle of Hundsfeld, Boleslaus III Wrymouth defeats the Pomeranians and re-establishes Polish access to the sea.1109: On August 24, in the Battle of Hundsfeld, Boleslaus III Wrymouth defeats the Pomeranians and
re-establishes Polish access to the sea.1109: On August 24, in the Battle of Hundsfeld, Boleslaus III Wrymouth defeats the Pomeranians and re-establishes Polish access to the sea.1109: On August 24, in the Battle of Hundsfeld, Boleslaus III Wrymouth defeats the Pomeranians and re-establishes Polish access to the sea.1109: On August 24, in the Battle of Hundsfeld, Boleslaus III Wrymouth defeats the Pomeranians and re-establishes Polish access to the sea.1109: On August 24, in the Battle of Hundsfeld, Boleslaus III Wrymouth defeats the Pomeranians and re-establishes Polish access to the sea.1109: On August 24, in the Battle of Hundsfeld, Boleslaus III Wrymouth defeats the Pomeranians and re-establishes Polish access to the sea.1109: On August 24, in the Battle of Hundsfeld, Boleslaus III Wrymouth defeats the Pomeranians and re-establishes Polish access to the sea.1109: On August 24, in the Battle of Hundsfeld, Boleslaus III Wrymouth defeats the Pomeranians and re-establishes Polish access to the sea.1109: On August 24, in the Battle of Hundsfeld, Boleslaus III Wrymouth defeats the Pomeranians and re-establishes Polish access to the sea.1109: On August 24, in the Battle of Hundsfeld, Boleslaus III Wrymouth defeats the Pomeranians access to the sea.1109: On August 24, in the Battle of Hundsfeld, Boleslaus III Wrymouth defeats the Pomeranians access to the sea.1109: On August 24, in the Battle of Hundsfeld, Boleslaus III Wrymouth defeats the Pomeranians access to th 14, during Henry V's first expedition to Rome, he is crowned Holy Roman Emperor.1113: Paramavishnulok is crowned as King Suryavarman II in Cambodia. He expands the Khmer Empire and builds Angkor Wat during the first half of the century. He establishes diplomatic relations with China.1115: The Georgian army occupies Rustavi in the war with the Muslims.1115: In Java, King Kamesvara of Kadiri ascends to the throne. Janggala ceases to exist and comes under Kadiri domination, highly possible under royal marriage. During his reign, Mpu Dharmaja writes Kakawin Smaradahana, a eulogy for the king which become the inspiration for the Panji cycle tales, which spread across Southeast Asia.[1]1116: The Byzantine army defeats the Turks at Philomelion.1116: Death of doa Jimena Daz, governor of Valencia from 1099 to 1102.c. 1119: The Knights Templar are founded to protect Christian pilgrims in Jerusalem. A Black and White Photo of the 12th century Cuenca Cathedral (built from 1182 to 1270) in Cuenca, Spain1120: On January 16, the Council of Nablus, a council of ecclesiastic and secular lords in the crusader Kingdom of Jerusalem, establishes the first written laws for the kingdom.1120: On November 25, William Adelin, the only legitimate son of King Henry I of England, drowns in the White Ship Disaster, leading to a succession crisis which will bring down the Norman monarchy of England.1121: On August 12, in the Battle of Didgori, the greatest military victory in Georgian history, King David the Builder with 45,000 Georgians, 15,000 Kipchak auxiliaries, 500 Alan mercenaries and 100 French Crusaders defeats a much larger Seljuk-led Muslim coalition army.1121: On December 25, St. Norbert and 29 companions make their solemn vows in Premontre, France, establishing the Premonstratensian Order.1122: The Battle of Beroia (Modern-day Stara Zagora, Bulgaria) results in the disappearance of the Pechenegs Turkish tribe as an independent force.1122: On September 23, the Concordat of Worms (Pactum Calixtinum) is drawn up between Emperor Henry V and Pope Calixtus II bringing an end to the first phase of the power struggle between the papacy and the Holy Roman Empire.1122: King David the Builder captures Tbilisi and declares it the capital city of Georgia, ending 400 years of Arab rule.1123: The Jurchen dynasty of China forces Koryo (now Korea) to recognize their suzerainty.1124: In April or May, David I is crowned King of the Scots.1125: On June 11, in the Battle of Azaz, the Crusader states, led by King Baldwin II of Jerusalem, defeat the Seljuk Turks.1125: In November, the Jurchens of the Jin dynasty declare war on the Song dynasty, beginning the JinSong wars.1125: Lothair of Supplinburg, duke of Saxony is elected Holy Roman Emperor instead of the nearest heir, Frederick of Swabia, beginning the great struggle between Guelphs and Ghibellines.1127: The Northern Song dynasty loses power over northern China to the Jin dynasty.1128: On June 24, the Kingdom of Portugal gains independence from the Kingdom of Len at the Battle of So Mamede; (recognised by Len in 1143). The temple complex of Angkor Wat, built during the reign of Suryavarman II in Cambodia of the Khmer Era. 11301138: Papal schism, Pope Innocent II vs. Antipope Anacletus II.1130: On March 26, Sigurd I of Norway dies. A golden era of 95 years comes to an end for Norway as civil wars between the members of Harald Fairhair's family line rage for the remainder of the century.1130: On Christmas Day, Roger II is crowned King of Sicily, the royal title being bestowed on him by Antipope Anacletus II.1132: The Southern Song dynasty establishes China's first permanent standing navy, although China had a long naval history prior. The main admiral's office is at the port of Dinghai.11321183: the Chinese navy increases from a mere 3,000 to 52,000 marine soldiers stationed in 20 different squadrons. During this time, hundreds of treadmill-operated paddle wheel craft are assembled for the navy to fight the Jin dynasty in the north.1135: King Jayabaya of Kadiri ascends to the throne.[2]11351154: The Anarchy takes place, during a period of civil war in England.1136: Suger begins rebuilding.1137: On July 22, the future King Louis VII of France marries Eleanor, the Duchess of Aquitaine.1138 On October 11, the 1138 Aleppo earthquake devastates much of northern Syria.1139: in April, the Second Lateran Council ends the papal schism.1139: On July 5, in the Treaty of Mignano, Pope Innocent II confirms Roger II as King of Sicily, Duke of Apulia, and Prince of Capua and invests him with his titles.1139: On July 25, the Portuguese defeat the Almoravids led by Ali ibn Yusuf in the Battle of Ourique; Prince Afonso Henriques is acclaimed King of Portugal by his soldiers. Averroes in a 14th-century painting by Andrea di Bonaiuto11401150: Collapse of the Ancestral Puebloan culture at Chaco Canyon (modern-day New Mexico). 1141: The Treaty of Shaoxing ends the conflict between the Jin dynasty and Southern Song dynasty, legally establishing the boundaries of the two countries and forcing the Song dynasty to renounce all claims to its former territories north of the Huai River. The treaty reduces the Southern Song into a quasi-tributary state of the Jurchen Jin dynasty. 1143: Manuel I Komnenos is crowned as Byzantine emperor after the death of John II Komnenos.1143: Afonso Henriques is proclaimed King of Portugal by the cortes.1143: The Treaty of Zamora recognizes the suzerainty of the pope.1144: On December 24, Edessa falls to the Atabeg Zengi.11451148: The Second Crusade is launched in response to the fall of the County of Edessa.1147: On October 25, the four-month-long Siege of Lisbon successfully brings the city under definitive Portuguese control, expelling the Moorish overlords.1147: A new Berber dynasty, the Almohads, led by Emir Abd al-Mu'min, takes North Africa from the Almoravides and soon invades the Iberian Peninsula. The Almohads began as a religious movement to rid Islam of impurities.1147: The Wendish Crusade against the Polabian Slavs (or "Wends") in what is now northern and eastern Germany.1150: Ramon Berenguer IV, Count of Barcelona marries Petronilla, the Queen of Aragon.1151: The Treaty of Tudiln is signed by Alfonso VII of Len ancestern Germany.1150: Ramon Berenguer IV, Count of Barcelona marries Petronilla, the Queen of Aragon.1151: The Treaty of Tudiln is signed by Alfonso VII of Len ancestern Germany.1150: Ramon Berenguer IV, Count of Barcelona marries Petronilla, the Queen of Aragon.1151: The Treaty of Tudiln is signed by Alfonso VII of Len ancestern Germany.1150: Ramon Berenguer IV, Count of Barcelona marries Petronilla, the Queen of Aragon.1151: The Treaty of Tudiln is signed by Alfonso VII of Len ancestern Germany.1150: Ramon Berenguer IV, Count of Barcelona marries Petronilla, the Queen of Aragon.1151: The Treaty of Tudiln is signed by Alfonso VII of Len ancestern Germany.1150: Ramon Berenguer IV, Count of Barcelona marries Petronilla, the Queen of Aragon.1151: The Treaty of Tudiln is signed by Alfonso VII of Len ancestern Germany.1150: Ramon Berenguer IV, Count of Barcelona marries Petronilla, the Queen of Aragon.1151: The Treaty of Tudiln is signed by Alfonso VII of Len ancestern Germany.1150: Ramon Berenguer IV, Count of Barcelona marries Petronilla, the Polabian Slave (or "Wends") in What is now northern and eastern Germany.1150: Ramon Berenguer IV, Count of Barcelona marries Petronilla, the Polabian Slave (or "Wends") in What is now northern and eastern Germany.1150: Ramon Berenguer IV, Count of Barcelona marries Petronilla, the Polabian Slave (or "Wends") in What is now northern and eastern Germany.1150: Ramon Berenguer IV, Count of Barcelona marries Petronilla, the Polabian Slave (or "Wends") in What is now northern and eastern Germany.1150: Ramon Berenguer IV, Count of Barcelona marries Petronilla, the Polabian Slave (or "Wends") in What is now northern and eastern Germany.1150: Ramon Bere Raymond Berengar IV, Count of Barcelona, recognizing the Aragonese conquests south of the Jcar and the right to expand in and annex the Kingdom of Murcia.1153: The Treaty of Wallingford, ends the civil war between Empress Matilda's son Henry of Anjou as heir.1153: The First Treaty of Constance is signed between Emperor Frederick I and Pope Eugene III, by the terms of which, the emperor is to prevent any action by Manuel I Comnenus to reestablish the Byzantine Empire on Italian soil and to assist the pope against his enemies in revolt in
Rome.1154: the Moroccan-born Muslim geographer Muhammad al-Idrisi publishes his Geography.1154: On December 27, Henry II is crowned King of England at Westminster Abbey.1155: Pope Adrian IV grants overlordship of Ireland to Henry II of England in the bull Laudabiliter.1156: On June 18, the Treaty of Benevento is entered into by Pope Adrian IV and the Norman Kingdom of Sicily. After years of turbulent relations, the popes finally settles down to peace with the Hauteville kings. The kingship of William I is recognized over all Sicily, Apulia, Calabria, Campania, and Capua. The tribute to the pope of 600 schifati agreed upon by Roger II in 1139 at Mignano is affirmed and another 400 shift is added for the new lands.1158 The Treaty of Sahagn ends the war between Castile and Len. The Liuhe Pagoda of Hangzhou, Chinase navy, employing gunpowder bombs launched from trebuchets, defeats the enormous Jin dynasty navy in the East China Sea in the Battle of Tangdao and on the Yangtze River in the Battle of Caishi. 1161: Kilij Arslan II, Sultan of Rum, makes peace with the Byzantine Empire, recognizing the emperor's primacy.1161: In the siege of Ani, troops from the Kingdom of Georgia take control over the city, only to have it sold for the second time to the Shaddadids, a Kurdish dynasty.1162: Genghis Khan, the founder of the Mongol Empire, is born as Temjin in present-day Mongolia.1163: The Norwegian Law of Succession takes effect.11651182: Tensions and disputes between the Pagan Empire and the Kingdom of Polonnaruwa causes the Sinhalese under Parakramabahu the Great to raid Burma.1168: King Valdemar I of Denmark conquers Arkona on the Island of Rgen, the strongest pagan fortress and temple in northern Europe.1169: Political disputes within the Pandya Empire sparks the decade-long Pandyan Civil War.1169: On May 1, the Norman invasion of Ireland begins. Richard fitzGilbert de Clare ('Strongbow') allies with the exiled Irish chief, Dermot MacMurrough, to help him recover his kingdom of Leinster. The defense of the Carroccio during the exiled Irish chief, Dermot MacMurrough, to help him recover his kingdom of Leinster. The defense of the Carroccio during the exiled Irish chief, Dermot MacMurrough, to help him recover his kingdom of Leinster. battle of Legnano (1176) by Amos Cassioli (18321891)1170: The Treaty of Sahagn is signed by Alfonso VIII of Castile and Alfonso II of Aragon. Based on the terms of the accord, Alfonso VIII agrees to provide Alfonso II with three hostages, to be used as tribute payments owed by Ibn Mardan of Valencia and Murcia.1170: On December 29, Thomas Becket is murdered in Canterbury Cathedral.1171: Saladin deposes the last Fatimid Caliph Al-'id and establishes the Avyubid dynasty.1171: On November 11, Henry II of England lands in Ireland to assert his claim as Lord of Ireland.1172: The Pandyan city of Madurai is sacked by the Sinhalese army due to an attempt to drive off the rival throne claimant, Kulasekara Pandyan.1173: Sinhalese king Parakramabahu the Great gains a decisive victory by invading the English in the Battle of Alnwick. He accepts the feudal overlordship of the English crown and pays ceremonial allegiance at York.1175: Hnen Shnin (Genk) founds the Jdo sh (Pure Land) sect of Buddhism.1175: The Treaty of Windsor is signed by King Henry II of England and the High King of Ireland, Ruaidr Ua Conchobair.1176: On May 29, Frederick Barbarossa's forces are defeated in the Battle of Legnano by the Lombard League which results in the emperor's acknowledgment of the pope's sovereignty over the Papal States and Alexander acknowledging the emperor's overlordship of the imperial Church.1176: On September 17, The Battle of Myriocephalum; Turkish: Miryakefalon Sava) is fought between the Byzantine Empire and the Seljuk Turks in Phrygia. It is a serious reversal for the Byzantine forces and will be the final, unsuccessful, effort by the Byzantines to recover the interior of Anatolia from the Seljuk Turks.1177: The Treaty or Peace of Venice is signed by the papacy and its allies, and Frederick I, Holy Roman Emperor. The Norman Kingdom of Sicily also participates in negotiations and the treaty thereby determines the political course of all of Italy for the next several years.1178: Chinese writer Zhou Qufei, a Guangzhou customs officer, writes of an island far west in the Indian Ocean (possibly Madagascar), from where people with skin "as black as lacquer" and with frizzy hair were captured and purchased as slaves by Arab merchants.1179: The Treaty of Cazola (Cazorla) is signed by Alfonso II of Aragon and Alfonso VIII of Castile, dividing Andalusia into separate zones of conquest for the two kingdoms, so that the work of the Reconquista would not be stymied by internecine feuding.1180: The Portuguese Navy defeats a Muslim fleet off the coast of Cape Espichel.11801185: the Genpei War in Japan.1181: Parakramabahu the Great conducts a large-scale raid on Burma, after a ship transporting a Sinhalese princess to the Khmer Empire is attacked by Burmese naval fleets.1182: Religious reformations of Theravada Buddhism in Pagan Burma under the patronage of Narapatisithu are continued with the end of the Polonnaruwa-Pagan War.1182: Revolt of the people of Constantinople against the Latins, whom they massacre, proclaiming Andronicus I Comnenus as co-emperor.1183: On January 25, the final Peace of Venice of 1177.1183: On September 24, Andronicus I Comnenus has his nephew Alexius II Comnenus strangled.1184: On March 24, Queen Tamar, King of Georgia, accedes to the throne as sole ruler after reigning with her father, George III, for six years.1184: Diet of Pentecost organised by Emperor Frederick I in Mainz.1185: The Uprising of Asen and Peter against the Byzantine Empire leads to the restoration of the Bulgarian Empire.1185: Andronicus I Comnenus is deposed and, on September 12, executed as a result of the Norman massacre of the Greeks of Thessalonika.1185: The cathedral school (Katedralskolan) in Lund, Sweden, is founded. The school is the oldest in northern Europe and one of the oldest in all of Europe.1185: Beginning in this year the Kamakura shogunate deprives the emperor of Japan of political power.1186: On January 27, the future Holy Roman Emperor Henry VI marries Constance of Sicily, the heiress to the Sicilian throne.1187: On July 4, in the Battle of Hattin, Saladin defeats the king of Jerusalem.1187: In August, the Swedish royal and commercial center Sigtuna is attacked by raiders from Karelia, Couronia, and/or Estonia.[3]1188: The Riah were introduced into the Habt and south of Tetouan by the Almohad caliph, Abu Yusuf Yaqub al-Mansur, and Jochem and Acem were introduced in Tamesna.[4]1189: On September 3, Richard I is crowned King of England at Westminster.1189: On November 11 William II of Sicily dies and is succeeded by his illegitimate cousin Tancred, Count of Lecce instead of Constance.11891192: The Third Crusade is an attempt by European leaders to wrest the Holy Land from Saladin.Richard I of England, or Richard the Lionheart.1190: On June 10, Emperor Frederick Barbarossa drowns in the River Salef, leaving the Crusader army under the command of the rivals Philip II of France and Richard I of England, which ultimately leads to the dissolution of the army.1191: Holy Roman Emperor Henry VI attacked the Kingdom of Sicily from May to August but fails and withdrawn, with Empress Constance captured (released 1192).1191: On September 7, Saladin is defeated by Richard I of England at the Battle of Arsuf. 1192: In April, Isabella I begins her reign as Christian Queen of the Kingdom of Jerusalem1192: In June, the Treaty of Ramla is signed by Saladin and Richard Lionheart. Under the terms of the agreement, Jerusalem will remain under Muslim control. However, the city will be open to Christian pilgrims. The Latin Kingdom is reduced to a coastal strip that extends from Tyre to Jaffa.1192: Sultan Shahbuddin Muhammad Ghori establishes the first Muslim empire in India for 14 years (11921206) by defeating Prithviraj Chauhan.1193: Nalanda, the great Indian Buddhist educational centre, is destroyed.1194: Emperor Henry VI conquers the Kingdom of Sicily.1195: On June 16, the struggle of Shamqori. Georgian forces annihilate the army of Abu Baqar.1198: The brethren of the Crusader hospital in Acre are raised to a military order of knights, the Teutonic Knights, formally known as the Order of the Hospital of St. Mary of the Teutons in Jerusalem.1199: Pope Innocent III writes to Kaloyan, inviting him to unite the Bulgarian Church with the Roman Catholic Church.1200 Construction begins on the Grand Village of the Natchez near Natchez, Mississippi. This ceremonial center for the Natchez people is occupied and built until the early 17th century.[5]Eastern Hemisphere at the end of the 12th centuryChina is under the Northern Song dynasty. Early in the century, Zhang Zeduan paints Along the River During the Qingming Festival. It will later end up in the Palace Museum, Beijing. In southeast Asia, there is conflict between the Khmer Empire and the champa. Angkor Wat is built under the Hindu king Suryavarman II. By the end of the century, the Buddhist Jayavarman VII becomes the ruler. Japan is in its Heian period. The Chj-jinbutsu-giga is made and attributed to Toba Sj. It ends up at the Kzan-ji, Kyoto. In Oceania, the Tui Tonga Empire expands to a much greater area. Europe undergoes the Renaissance of the 12th century. The blast furnace for the smelting of cast iron is imported from China, appearing around Lapphyttan, Sweden, as early as 1150. Alexander Neckam is the first European to document the mariner's compass, first documented by Shen Kuo during the previous century. Christian humanism becomes a self-conscious philosophical tendency in Europe. Christianity is also introduced to Estonia, Finland, and Karelia. The first medieval universities are founded. Pierre Abelard teaches. Middle English begins to develop, and literacy begins
to spread outside the Church throughout Europe.[6] In addition, churchmen are increasingly willing to take on secular matters.[7]The Ars antiqua period in the history of the medieval music of Western Europe begins. The earliest recorded miracle play is performed in Dunstable, England.Gothic architecture and trouvre music begin in France.During the middle of the century, the Cappella Palatina is built in Palermo, Sicily, and the first documented outbreaks of influenza there happens. The medieval state of Serbia is formed by Stefan Nemanja and then continued by the Nemanji dynasty and the House of Anjou are relying primarily on mercenaries in their militaries. Paid soldiers are available year-round, unlike knights who expected certain periods off to maintain their manor lifestyles.[8]In India, Hoysala architecture reaches its peak. In the Middle East, the icon will go to the Tretyakov Gallery of Moscow. The Georgian poet Shota Rustaveli composes his epic poem The Knight in the Panther's Skin.Shahab al-Din Suhrawardi founds his "school of illumination". In North Africa, the kasbah of Marrakesh is built, including the city gate Bab Agnaou and the Koutoubia mosque. In sub-Saharan Africa, the kasbah of Marrakesh is built, including the city of Tula burns down, marking the end of the Toltec Empire In West Africa the Ife Empire is established. See also: Timeline of historic inventions 12th century 1104: The Venice Arsenal of Venice, Italy, is founded. It employed some 16,000 people for the mass production of sailing ships in large assembly lines, hundreds of years before the Industrial Revolution. 1106: Finished building of Gelati.1107: The Chinese engineer Wu Deren combines the mechanical compass vehicle of the south-pointing chariot with the distance-measuring odometer device.111: The Chinese Engineer Wu Deren combines the mechanical compass vehicle of the south-pointing chariot with the distance-measuring odometer device.111: The Chinese Engineer Wu Deren combines the mechanical compass vehicle of the south-pointing chariot with the distance-measuring odometer device.111: The Chinese Engineer Wu Deren combines the mechanical compass vehicle of the south-pointing chariot with the distance-measuring odometer device.111: The Chinese Engineer Wu Deren combines the mechanical compass vehicle of the south-pointing chariot with the distance-measuring odometer device.111: The Chinese Engineer Wu Deren combines the mechanical compass vehicle of the south-pointing chariot with the distance-measuring odometer device.111: The Chinese Engineer Wu Deren combines the mechanical compass vehicle of the south-pointing chariot with the distance-measuring odometer device.111: The Chinese Engineer Wu Deren combines the mechanical compass vehicle of the south-pointing charity First record of windmills.Wikimedia Commons has media related to 12th century. 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ISBN 266470822.Warren 1961, p.36470822.Warren, Wilfred Lewis (1961). King John. University of California Press. p.362. ISBN 266470822.Warren 1961, p.36470822.Warren 1961, p.36470822.Warren 1961, p.3647082.Warren 196 Date incompatibility (help)Retrieved from "4The following pages link to 12th century External tools(link counttransclusion countsorted list) See help page for transcluding these entriesShowing 50 items. View (previous 50 | next 50) (20 | 50 | 100 | 250 | 500)Antisemitism in Christianity (links | edit)List of decades, centuries, and millennia (links | edit)Dialect (links | edit)House of Hohenzollern (links | edit)House of Hohenzollern (links | edit)Taoism | edit)17th century (links | edit)18th century (century (links | edit)2nd century BC (links | edit)4th century BC (links | edit)1st century BC (links | edit)2nd century BC (links | edit)21st century BC (links | edit)11th century BC (links | edit)1000s (decade) (links edit)1163 (links | edit)1160s (links | edit)1141 (links | edit)1135 (links | edit)1204 (l games. While Apples new policy means that it may take some time to see the App Store truly flourish, users should know about whats currently available in terms of emulation, you should read my deep-dive on the subject. For this article, Ill only cover emulators that are (mostly) easy to access. For emulators that require jailbreaking or sideloading on iPhone, I make references to a couple of good ones, but youre on your own if you need further information. With that, here are some of the coolest emulators that require jailbreaking or sideloading that isnt even in the App Store may cause some to feel a migraine coming on, but hear me out. This browser-based collection of emulators from Afterplay, youre able to move your gaming experience between devices thanks to cloud storage. On top of that, the site also offers a wide array of different gaming devices, including some less familiar consoles, like the Atari Lynx or the WonderSwan. However, accessing this wider collection of consoles does require a \$5.99/month subscription. Should you not want to pay a subscription fee, the free version of Afterplay still has plenty to offer. It even allows for autosave and manual save slots, meaning you can save your game and continue where you left off on a different device. Afterplay also has some classic emulator features, such as cheats, input customization, screenshots, and more. While Apple fans wait for the Apple fans wait for the Apple fans wait for the Apple fans wait. Free: GameBoy GameBoy Color GameBoy Advanced Super Nintendo (SNES) Premium: Nintendo 64 Sega Genesis Neo Geo Pocket N other emulator features Expansive list of emulatorsBrowser-based Premium monthly-subscription The Delta app is currently the king of the Apple App Store, and for a good reason: this thing has the juice. Ive already written rather extensively on this app, even providing a rather hearty how-to about getting it going, and its likely because Im obsessed with it. While the scope of consoles is rather limited to Nintendo 64 and Nintendo 64 and Nintendo DS), theres a lot to enjoy from a Delta experience. Delta allows you to customize controllers for each console and fastforwarding. While some gamers may want options outside of the world of Nintendo, this is a great addition to the App Store and will no doubt keep fans eager for whats next. Nintendo Entertainment System (NES) Super Nintendo of Nintendo Entertainment System (NES) Super Nintendo of Nintendo of Nintendo of Nintendo DSIts free Tons of emulators with the ability to reskin them Cheat codes, fast-forwarding More consoles arriving soonControls may take some getting used to Really only for a PlayStation 2 emulator have some options, limited as they currently may be. For instance, a lot of folks enjoy the Play! app, but I must warn you that it requires sideloading, which is why Play! is can also be useful for those who dont want to dive into the grit. Play! is another accessible browser-based emulator, although it doesn't anything, as it doesn't allow for save states. However, you dont need to sideload anything onto your iPhone (but you can), and the browser version of Play! doesnt required Browser-based No save states More of a proof-of-concept if anything So this one is really stretching things a bit, but remember that the App Store is a great option for some of your favorite classic and retro games. For example, the Dreamcast manic-driving classic Crazy Taxi is available as a stand-alone app, and I dont even know why you would need another video game, honestly. Of course, the Grand Theft Auto III Trilogoy originally for the PlayStation 2 is also available. While you may need to do a bit of research, remember that the App Store has more than two million apps, so the game you want to play may already be available. Even if that isnt the case, you may find something that will hold you over until more emulators arrive. While Apple fans are likely chomping at the bit to get their hands on some classic emulation, remember that even more goodness is coming soon. Personally, I cant wait for a Dreamcast
emulator to start playing some Chu Chu Rocket again, but as of now, Apple-approved emulation on iPhone is still rather new. If youre familiar at all with sideloading, RetroArch is rather amazingjust be aware that it will officially come to the App Store soon. Of course, other emulator, is in the pipeline, as is uoYabuse, a Sega Saturn emulator. Those who are more interested in arcade-style gaming will also be happy to know that MAME4iOS is hoping to see a release sometime in the near future as well. Its an exciting time to be an Apple fan and a classic gamer. With the company taking a more relaxed approach to emulators on the App Store, no doubt more awesome content will continue to pour through. You may also want to know about Windows emulation on Mac

Can you play 3ds roms on iphone. How to play roms on ios. Roms on ios. Play roms on iphone. Can you play gba roms on iphone. Can you play ds roms on iphone. Can you play pokemon roms on iphone. Can you play ps2 games on iphone. Can you play emulators on iphone. How to play roms on iphone. Can you play roms on ipad. Can you play roms on ipad. Can you play psp roms on iphone. Can you play gamecube roms on iphone.