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ELECTRON API 示例

打印到 PDF

支持: WIN, MACOS, LINUX

查看示例 PDF 保存到: /var/folders/m5/2ry8hs4x593b/q2dk2v8v00000gn/T/print.pdf

为了演示打印到PDF功能, 上面的示例按钮会将此页面保存为PDF, 如果您有PDF查看器, 请打开文件。

在实际的应用程序中, 您更可能将它添加到应用程序菜单中, 但为了演示的目的, 我们将其设置为示例按钮。

渲染器进程

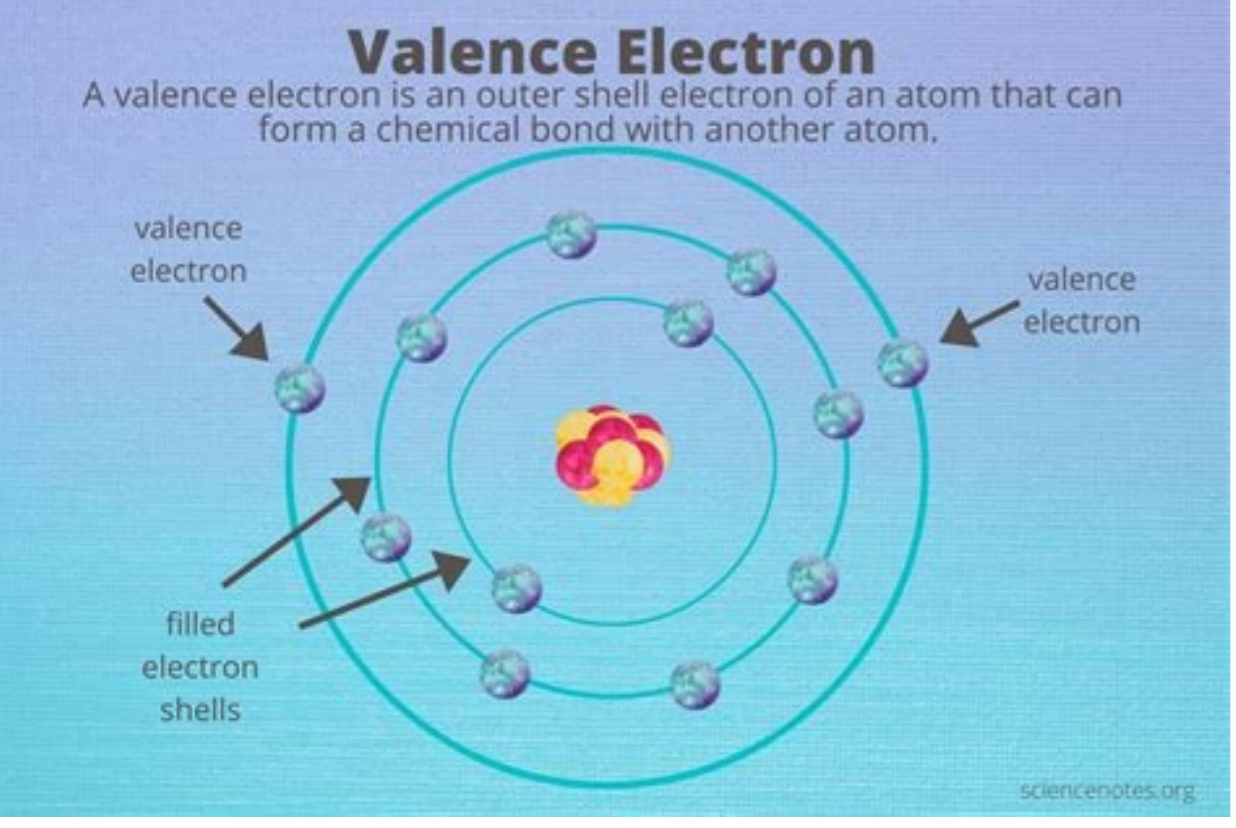
```
const ipc = require('electron').ipcRenderer
const printPDFBtn = document.getElementById('print-pdf')
printPDFBtn.addEventListener('click', function (event) {
  ipc.send('print-to-pdf')
})
ipc.on('wrote-pdf', function (event, path) {
  const message = 'PDF 保存到: ' + path
  document.getElementById('pdf-path').innerHTML = message
})
```

主进程

```
const fs = require('fs')
const os = require('os')
const path = require('path')
const electron = require('electron')
const BrowserWindow = electron.BrowserWindow
const ipc = electron.ipcMain
const shell = electron.shell
ipc.on('print-to-pdf', function (event) {
```

Periodic Table of the Elements

| | | | | | | | | | | | | | | | | | |
|----------------------------|---------------------------|-------------------------------|---------------------------|-----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-----------------------------|------------------------------|---------------------------|-----------------------------|----------------------------|---------------------------|---------------------------|--------------------------|-------------------------|
| 1 | | | | | | | | | | | | | | | | | 18 |
| H 1.008 Hydrogen | | | | | | | | | | | | | | | | | He 4.003 Helium |
| 3 | 4 | | | | | | | | | | | 19 | 20 | 36 | | | |
| Li 6.941 Lithium | Be 9.012 Beryllium | | | | | | | | | | | K 39.098 Potassium | Ca 40.078 Calcium | Ar 39.948 Argon | | | |
| 11 | 12 | | | | | | | | | | | 37 | 38 | 54 | | | |
| Na 22.990 Sodium | Mg 24.305 Magnesium | | | | | | | | | | | Rb 85.468 Rubidium | Sr 87.62 Strontium | Xe 131.29 Xenon | | | |
| 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 |
| K 39.098 Potassium | Ca 40.078 Calcium | Sc 44.956 Scandium | Ti 47.887 Titanium | V 50.942 Vanadium | Cr 51.996 Chromium | Mn 54.938 Manganese | Fe 55.845 Iron | Co 58.933 Cobalt | Ni 58.693 Nickel | Cu 63.546 Copper | Zn 65.38 Zinc | Ga 69.723 Gallium | Ge 72.631 Germanium | As 74.922 Arsenic | Se 78.971 Selenium | Br 79.904 Bromine | Kr 83.798 Krypton |
| 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 |
| Rb 85.468 Rubidium | Sr 87.62 Strontium | Y 88.906 Yttrium | Zr 91.224 Zirconium | Nb 92.906 Niobium | Mo 95.94 Molybdenum | Tc 98.906 Technetium | Ru 101.07 Ruthenium | Rh 101.07 Rhodium | Pd 106.36 Palladium | Ag 107.868 Silver | Cd 112.414 Cadmium | In 114.818 Indium | Sn 118.710 Tin | Sb 121.757 Antimony | Te 127.4 Tellurium | I 126.905 Iodine | Xe 131.29 Xenon |
| 55 | 56 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | |
| Cs 132.905 Cesium | Ba 137.327 Barium | Hf 178.49 Hafnium | Ta 180.948 Tantalum | W 183.84 Tungsten | Re 186.207 Rhenium | Os 190.23 Osmium | Ir 192.225 Iridium | Pt 195.084 Platinum | Au 196.967 Gold | Hg 200.59 Mercury | Tl 204.387 Thallium | Pb 207.2 Lead | Bi 208.980 Bismuth | Po 209 Polonium | At 210 Astatine | Rn 222 Radon | |
| 87 | 88 | 104 | 105 | 106 | 107 | 108 | 109 | 110 | 111 | 112 | 113 | 114 | 115 | 116 | 117 | 118 | |
| Fr 223 Francium | Ra 226 Radium | Rf 261 Rutherfordium | Db 262 Dubnium | Sg 263 Seaborgium | Bh 264 Bohrium | Hs 265 Hassium | Mt 266 Meitnerium | Ds 267 Darmstadtium | Rg 268 Roentgenium | Cn 277 Copernicium | Uut 288 Ununtrium | Fl 289 Flerovium | Uup 289 Ununpentium | Lw 290 Livermorium | Uus 291 Ununseptium | Uuo 292 Ununoctium | |
| 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | | | |
| La 138.905 Lanthanum | Ce 140.12 Cerium | Pr 140.908 Praseodymium | Nd 144.24 Neodymium | Pm 144.913 Promethium | Sm 150.36 Samarium | Eu 151.964 Europium | Gd 157.25 Gadolinium | Tb 158.925 Terbium | Dy 162.50 Dysprosium | Ho 164.930 Holmium | Er 167.259 Erbium | Tm 168.934 Thulium | Yb 173.054 Ytterbium | Lu 174.967 Lutetium | | | |
| 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 | 101 | 102 | 103 | | | |
| Ac 227.033 Actinium | Th 232.038 Thorium | Pa 231.036 Protactinium | U 238.029 Uranium | Np 237.048 Neptunium | Pu 244.064 Plutonium | Am 243.061 Americium | Cm 247.070 Curium | Bk 247.070 Berkelium | Cf 251.08 Californium | Es 252.083 Einsteinium | Fm 257.10 Fermium | Md 258.10 Mendelevium | No 259 Nobelium | Lr 260 Lawrencium | | | |



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Researchers have created highly conductive and durable silver nanowire ink that can be used to print durable electronic circuits on paper. The technology is being touted by the researchers at the University of Tennessee as a breakthrough in making inexpensive, flexible, disposable electronic sensors that can be used for a wide range of medical purposes, as well as an "electronic skin" that can act as touchpad sensors on robotics. Robots with electronic skin could, for example, go to a patient's bedside and through touch, determine vital signs and other diagnostic data, or a patient could use the skin as a touch pad to alert medical staff or find information. University of Tennessee A paper-printed circuit is demonstrated. The research, published in the journal ACS Applied Materials & Interfaces, highlights the low cost with which the foldable printed circuits can be made. The system for printing circuit patterns with the silver ink takes only a few minutes, and the resulting electronics are then hardened with a pulsing light. The resulting nanowires have a diameter of 100 nanometers and a length of a few micrometers. The paper-based circuits can be folded and unfolded up to 15 times, or rolled up 5,000 times without a failure in the device's operation. Anming Hu, an assistant professor and lead researcher on the project, said the research found that nano wires are critical to developing a highly flexible device on paper substrates; that photonic sintering with flashing light is better for facile processing than thermal sintering; and that ink printing is a practical way to create sensors. Previous printable devices on flexible substrates, Hu said, couldn't stand significant deformation, which resulted in the surface metallic electrodes peeling off the material. "It is found that silver nanowires are highly adhesive with paper fibers," Hu said. Printable circuits aren't unique. Georgia Tech, the University of Tokyo and Microsoft Research created them last year, and a company called Bare Conductive has also been selling a graphite ink that can be used to print circuits. But, the University of Tennessee's technology is more flexible and durable than predecessors, Hu said. The scientists have already used the printing process to create point-of-care diagnostic tests and portable DNA detectors that typically require more sophisticated and expensive manufacturing processes. Hu said his team wanted to make a sensor that could be created on demand and respond to touch or to specific molecules, such as glucose. "We are working [toward] printable biosensors and energy devices with paper-based or polymer-based substrates. We hope that we integrate micro-sized batteries into a sensor and form a standalone microsystem," Hu said. The researchers are now working on a multi-nozzle printer that can lay down two or more nano inks, such as copper and silver. "Another challenge is to further improve the printing resolution from tens of micrometers to micro and sub micrometer [sizes]," Hu said. "To address these two challenges will allow us to print 3D hybrid devices with different inks and a higher integration." Copyright © 2014 IDG Communications, Inc. If you pay through electronic checks on the Internet for bills or purchases then you might want a copy of the check itself. This can be beneficial when going back over your bills, or if you need them for any other purpose, such as taxes. You can print your electronic checks in a few simple steps right from your printer at home. Ask that the merchant or company that you have paid email you a copy of the check. An email with the check in it allows you to have it on the computer. Go to your Inbox on your email. Check for the electronic check. Open the attachment that the electronic check is in. Click on the "File" menu on the top left of the program it opens in, such as a PDF viewer or Microsoft Word. At this point you may choose to save a copy of your check to your computer as well, by simply navigating to the File menu, then selecting "Save" from the drop-down menu that appears. Click on the "Print" button in the File menu. Choose the printer and specifications you would like your printed copy to have. Click OK. Take your completed copy of your electronic check and file away for your personal records. If desired, you can print off additional copies at this time using the same steps as outlined above. The ever-evolving field of 'printed electronics' includes several technologies, but the sector most interesting to designers is where conductive inks containing silver or carbon are used to incorporate circuitry into paper or other thin, flexible materials. When combined with tiny (around 2mm wide) batteries and other miniaturised components, these make printed products interactive in a seamless way that's light years ahead of the traditionally bulky and breakage-prone electronics found in your average singing greetings card. "Printed electronics have an advantage in terms of robustness as the components are fundamentally flexible, so they withstand handling more than conventional electronics," says Scott White, CEO of Cambridge firm PragmatIC Printing (opens in new tab), who have created logic circuits that are almost completely transparent. Novalia printed electronics being used in a paper fire engine and piano High-volume printingNovalia (opens in new tab), also based in Cambridge, develops intellectual property for printed electronics that can be used with standard flexographic or offset litho processes. "We're looking at making things with high-volume printing processes that are available everywhere, rather than with a special machine in a clean room," explains company director Kate Stone. For Stone, combining the technology with conventional reprographics is down to finding a printer with the right attitude. "There's nothing they do that's out of the ordinary in terms of equipment; it's more that it takes some time and effort to develop a workflow that works for this and get it right." An interactive bottle label developed by PragmatIC for Innovia Films Paper, ink and LEDSLikewise, although paper companies have jumped on board to develop products that work well with the conductive inks - ArjoWiggins launched one named Powercoat in December 2012 - Stone explains that Novalia has been focusing upon making the technology suitable for everyday paper types. "There are certain papers that we know will work well, but it's not like a special type that only grows on the moon," she says. "We've done trials with combinations of paper, ink and press to find out what works, and we try to keep everything as normal as possible." Both Stone and White see great potential for designers to put printed electronics to inventive new uses in marketing and point-of-sale materials. "One thing we're seen interest in is for promotional inserts," says White, "where the product manufacturers want to engage with the consumers, so they draw them in by getting them to answer certain questions, and then targeting products to them." Stone adds, "You could walk into a store and touch something on a poster, and that would connect to an app in your phone and the store would know who you are." She sees the NFC and Bluetooth capabilities of today's smartphones as an obvious route for taking magazines, adverts and packaging online. "I'm really excited about print being connected to the internet in a totally natural way that you just use," she says. "I'd like iPad-like interactivity on pieces of print in a way that people will just forget that you couldn't do before." Designer friendlyUnlike 3D printing, printed electronics is not yet at the stage where freelance designers can access the technology without the backing of a company such as Hallmark, with whom Novalia and PragmatIC have both collaborated. But Stone is excited about what will emerge once more designers have the chance to get creative with it. "We get inspired by a lot of agencies who we meet," she says. "What we're trying to do is create a platform of ink and electronics that designers can design with and printers can print with." In the meantime, the technology keeps evolving: touch switches are already taken care of and other input types such as temperature and moisture sensors are improving. Electrochromic inks and LEDs could make attention-grabbing magazine covers that respond to being picked up, although OLEDs (LEDs using organic compounds) are still currently better suited to glass screens than flexible surfaces. And as White explains, the circuits' computing power is rapidly progressing from present-day timed sequences of actions or simple decision logic to ever more sophisticated levels. "Calculation will be here within the next year or two," he predicts, adding a further, tantalising prospect: "A full microprocessor will be on the horizon in three to four years." To see some early examples of printed electronics in action, watch the YouTube videos below: Thank you for reading 5 articles this month! Join now for unlimited accessEnjoy your first month for just £1 / \$1 / €1 *Read 5 free articles per month without a subscription Join now for unlimited accessTry first month for just £1 / \$1 / €1 When people hand you a Moo MiniCard, they don't surreptitiously slip the business card into your hand; they splay out their set of cards and let you choose your favorite one. Then they tell you about the image on the back, whether it's a photo from a vacation, a product shot, an avatar or an innovative digital design. And though the print-size cards may not fit neatly in your Rolodex—they're only half the size of traditional business cards—their colorful appearance and slick, high-quality feel make you take notice.Richard Moross, 30, came up with the idea for MiniCards one night in 2003. As the strategic planner for a design firm, he was losing sleep thinking of a product idea. He thought about Coca-Cola's mission to have everyone in the world in arm's reach of a Coke and started running through the everyday items he had around.Moross looked close-to-his pockets—and hit on business cards, realizing that when it came to people promoting their personal websites and blogs, they were still often scribbling their URLs on napkins or whatever else was at hand. Moreover, people were developing other aspects of their online identities, like MySpace pages and Flickr accounts, that didn't yet have a place in the physical world, and a traditional business card just seemed too stuffy to do the job.With MiniCards, Moross cuts away the blank space that makes up much of a business card and incorporates a personal image on the back. But when his design firm didn't have the means to develop the idea, Moross branched out and started Moo.When Moo finally launched MiniCards in 2006, funded by \$5.5 million in venture capital, users could create their cards with images uploaded directly from their Flickr accounts, and they could use a different image on every card in their 100-card sets. Now users can upload photos from multiple social networking sites, like Bebo and Facebook, as well as directly from their computers. They can also order premade designs from about 40 artists. The cards quickly became popular with the Web 2.0 crowd that uses them as a supplement to traditional business cards. And since launch, there has been international demand, which Moross hadn't predicted. When the first batch of foreign-language cards was printed, they came out with question marks in place of text and Moross had to add support for multiple languages. The London-based company now translates its site into German, Italian, French and Spanish.Expanding beyond its signature MiniCards, Moo also offers sticker books, cards and postcards, and it just launched full-size business cards. The products have also created an aftermarket for accessories, like custom MiniCard holders, which Moo sells. Hand-made card holders made by Moo fans can also be found on craft site Etsy.com.Tapping into its enthusiastic community that posts photos of Moo products on Flickr, uses the prints for art projects and packaging design and even sends MiniCards out chain-letter style, Moo crowdsources some designs. Last holiday season, Moo hosted a Flickr competition for card designs and received more than 3,000 entries."Within a month, we had more holiday cards than Hallmark," Moross says.The company continues to reach out to its community through a candid blog, parties, product development sessions and an "Overheard at Moo" Twitter stream, which all foster the company's fun, approachable and transparent culture. Moross also makes sure to listen. He has his entire team copied on customer service requests so they know of any problems, and he makes sure to monitor any mention of his company online.And mention it they do. By encouraging customer communication and having a "blank canvas" product that inspires creativity, Moo benefits from organic word-of-mouth marketing. Its message is only helped along by the nature of the Moo product. "Everything we manufacture is handed from one person to another," Moross says.And by making his product's style stand out with distinctive shapes, heavy paper stock and a lustrous finish, even the most custom orders are recognizably Moo.Then there are the company's partnerships with social networking sites. Though Moo initially partnered only with Flickr, the company is now paired with Bebo, Facebook, Fotolog, LiveJournal and Vox, which collectively reach more than 100 million users. Moo has also opened up its API, so any other company that would like to design an integration can. It has already seen programs that generate 3D barcodes for stickers, create a MiniCard mosaic from a large image and import Flickr photos sorted by

color. Though Moross declined to share sales figures, he did say that in 2007 Moo shipped 10 million MimCards—which are sold in \$20 packs of 100—to 180 different countries. The company has also tripled its work force from 11 to 30 since 2006. Now he's focusing on expanding his young company. "We had a really successful idea that was a single product," Moross says. "And we have to scale that out to multiple products." The Day After 9/11, This Family-Owned Jam Company Lost All of Its Airline Business. But One Son's Strategic Rebrand Has Brought Lasting Success. The Art of Active Listening Requires Leaving Your Ego Behind Using This Color in Your Facebook Ads Could Increase Your Click-Through Rate Almost 3 Decades Ago, I Wrote Myself a Check for \$1 Million, When I Had Nothing. Here's Why. This Entrepreneur's Wellness Tech Platform Was Inspired By His Grandma's Garden Here Are the 7 Traits You Need to Get Rich in the Restaurant Industry Yankee Candle Founder's \$23 Million Estate Comes With an Indoor Water Park and Two 'Car Barns'

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