

$\text{T}_\text{E}\text{X}$ Live 的安装简单教程



耿楠

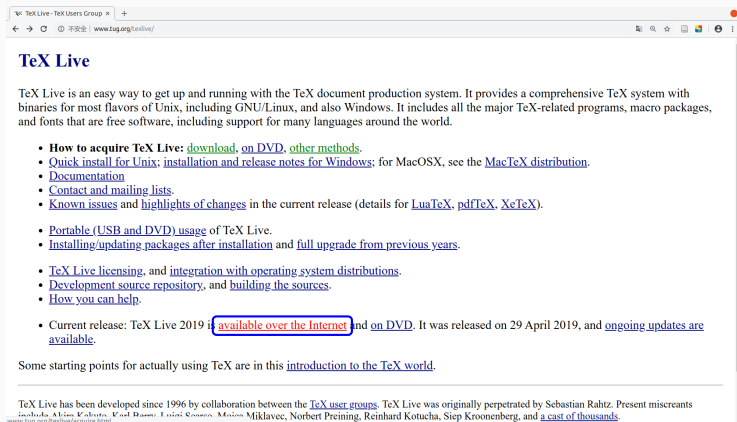
2019 年 春

西北农林科技大学教学发展中心

下载 T_EX Live



下载

<http://www.tug.org/texlive/> 单击 **T_EX Live** 2019 下载链接

The screenshot shows a web browser window with the address bar displaying "www.tug.org/texlive/". The page title is "TeX Live". The main content area has the heading "TeX Live" and a paragraph describing it as an easy way to get up and running with the TeX document production system. Below this is a list of links and information. The link "available over the Internet" is highlighted with a red box. At the bottom, there is a paragraph about the history of TeX Live.

TeX Live is an easy way to get up and running with the TeX document production system. It provides a comprehensive TeX system with binaries for most flavors of Unix, including GNU/Linux, and also Windows. It includes all the major TeX-related programs, macro packages, and fonts that are free software, including support for many languages around the world.

- **How to acquire TeX Live:** [download](#), [on DVD](#), [other methods](#).
- [Quick install for Unix](#); [installation and release notes for Windows](#); for MacOSX, see the [MacTeX distribution](#).
- [Documentation](#)
- [Contact and mailing lists](#).
- [Known issues](#) and [highlights of changes](#) in the current release (details for [LuaTeX](#), [pdfTeX](#), [XeTeX](#)).
- [Portable \(USB and DVD\) usage](#) of TeX Live.
- [Installing/updating packages after installation](#) and [full upgrade from previous years](#).
- [TeX Live licensing](#), and [integration with operating system distributions](#).
- [Development source repository](#), and [building the sources](#).
- [How you can help](#).
- Current release: TeX Live 2019 is **available over the Internet** and on DVD. It was released on 29 April 2019, and [ongoing updates are available](#).

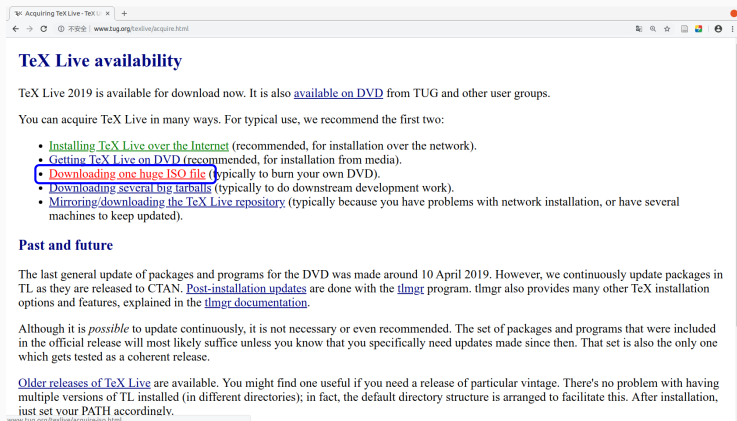
Some starting points for actually using TeX are in this [introduction to the TeX world](#).

TeX Live has been developed since 1996 by collaboration between the [TeX user groups](#). TeX Live was originally perpetrated by Sebastian Rahtz. Present miscreants include [Alvin Kobayashi](#), [Paul Ross](#), [Luigi Spina](#), [Maurice Miklavic](#), [Norbert Preining](#), [Reinhard Kotucha](#), [Siep Kroonenberg](#), and [a cast of thousands](#).

www.tug.org/texlive/acquire.html



下载

<http://www.tug.org/texlive/> 单击**ISO 镜像文件**下载链接



下载

<http://www.tug.org/texlive/>

自动选择**镜像网站**

The screenshot shows a web browser window with the address bar displaying `www.tug.org/texlive/acquire-iso.html`. The page title is "Acquiring TeX Live as an ISO image". The main text explains that for normal use, it recommends installing TeX Live over the Internet or from DVD, but provides instructions for burning a DVD. It lists three methods to acquire the ISO image: downloading from a nearby CTAN mirror (highlighted with a red box), manually choosing from the mirror list, or retrieving it via the torrent network. The page also includes a Unix command to mount the ISO, instructions for Windows users to use third-party tools like WinCDEmu, daemon-tools, or Magic ISO, and links to installation instructions and documentation. It notes that the ISO image is not updated after release and provides a link to the DVD sent to TeX user group members. Sources are listed as the complete sources in the source/ subdirectory, corresponding to Master/source in the repository. The section "Acquiring the ISO using the torrent network" states that the ISO image is also available as a torrent. The page concludes with a note to keep the torrent client running for some time to seed the files.

Acquiring TeX Live as an ISO image

For normal use we recommend [installing TeX Live over the Internet](#) or [from DVD](#), but if you want to burn your own DVD, you can get our huge ISO image. It is over 2GB ([md5](#), [sha512](#) checksums; [sha512](#) signature.). You can:

- [download from a nearby CTAN mirror](#); or
- manually choose from the [mirror list](#); or
- retrieve it via the [torrent network](#).

If you want to mount the image to make the contents available for installation or browsing, a typical invocation on Unix is:

```
mount -t iso9660 -o ro,loop,noauto /your/texlive.iso /mnt
```

On Windows, you'll need third-party tools such as [WinCDEmu](#), [daemon-tools](#), and/or [Magic ISO](#).

After mounting the image, to install TeX Live, follow the [installation instructions](#) or [read the documentation](#).

The ISO image is not updated after release, so that it can serve as a stable marker in TeX development and to correspond to the [DVD sent to TeX user group members](#).

Sources: the ISO includes the complete sources in the `source/` subdirectory, corresponding to [Master/source in the repository](#).

Acquiring the ISO using the torrent network

The ISO image is also available as [a torrent](#).

Please, after downloading the full torrent, keep the torrent client running for some time to seed the files so that the files get better distributed.

[mirror.ctan.org/systems/texlive/images/](#) ilable separately.



下载

<http://www.tug.org/texlive/>

任选 1 个下载 (3.3GiB)

Index of /mirrors_toolkit/CTAN/systems/texlive/Images/

File Name	File Size	Date
Parent directory/	-	-
README.md	1.1 KiB	2019-Apr-30 04:28
texlive2019-20190410.iso	3.3 GiB	2019-Apr-10 23:59
texlive2019-20190410.iso.md5	59 B	2019-Apr-10 23:59
texlive2019-20190410.iso.sha512	155 B	2019-Apr-10 23:59
texlive2019-20190410.iso.sha512.asc	455 B	2019-Apr-10 23:59
texlive2019.iso	3.3 GiB	2019-Apr-10 23:59
texlive2019.iso.md5	50 B	2019-Apr-10 23:59
texlive2019.iso.sha512	146 B	2019-Apr-10 23:59
texlive2019.iso.sha512.asc	455 B	2019-Apr-10 23:59

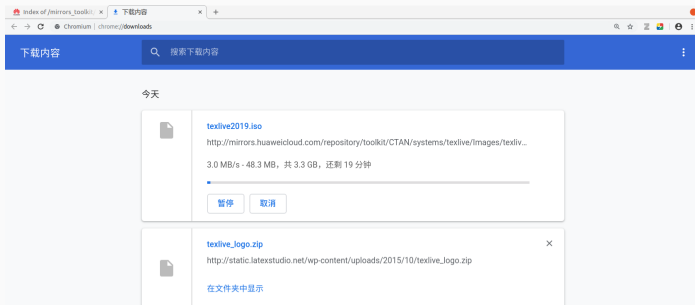
mirrors.huaweicloud.com/repository/toolkit/CTAN/systems/texlive/Images/texlive2019.iso



下载

<http://www.tug.org/texlive/>

开始下载



Downloading...

安装 T_EX Live



☛ 打开终端

- ☞ : 右键开始菜单、空白处  + 、 +  & 
- ☞ :  +  + 
- ☞ :  +  搜索 Terminal、可在 Finder 中添加服务

☛ 基本命令：

- ☞ `cd`、`ls/dir`、`rm/del`、`clear/cis`
- ☞ 选项：`-h`、`--help`、`/?`

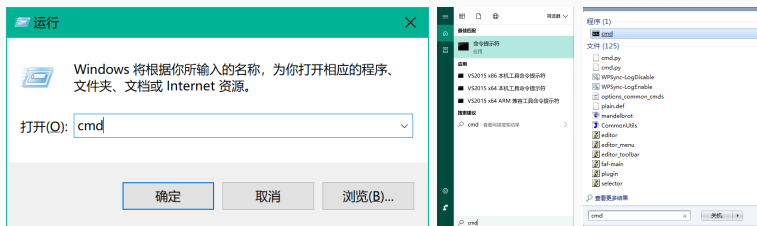
☛ 其他：

- ☞ 复制粘贴：/ + 、 + 、 + 
- ☞ 路径连接符：斜线 (/) 或反斜线 (\)
- ☞ 换行符：LF () 或 CRLF ()
- ☞ 结束进程： + 

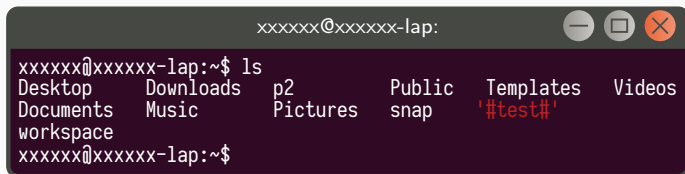
☛ 文件路径及命名中**不要使用**中文、空格以及特殊符号

*本页面摘自曾祥东的“现代 L^AT_EX 入门讲座”讲义 .

Windows 命令行窗口:  +  / 小娜 / 开始 & 



- Ubuntu 终端窗口:  +  + 



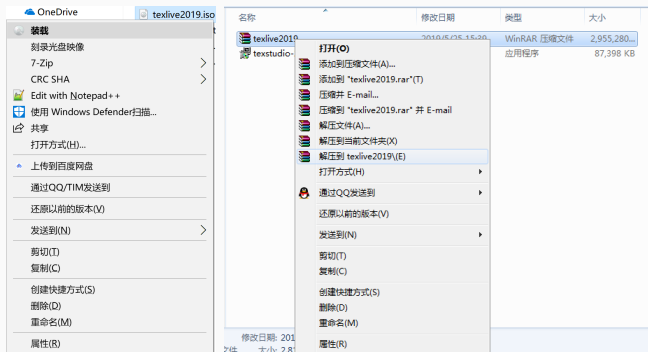
```
xxxxxxx@xxxxxxx-lap:~$ ls
Desktop    Downloads  p2         Public    Templates  Videos
Documents  Music      Pictures   snap      '#test#'
workspace
xxxxxxx@xxxxxxx-lap:~$
```

- MacOS 终端窗口:  +  搜索 Terminal



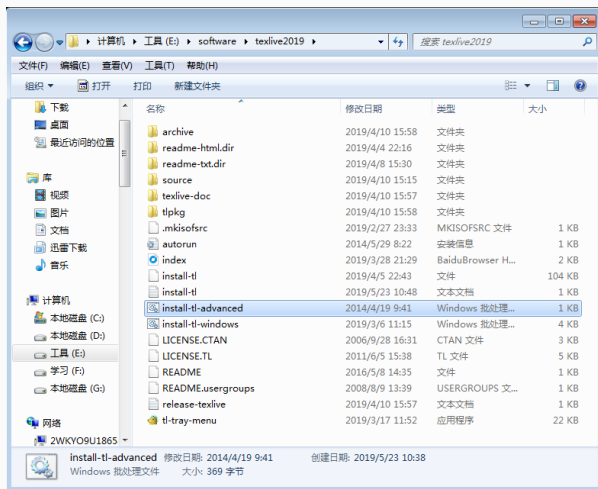
```
xxxxxxx@lap:~$ ls
Desktop    Downloads  p2         Public    Templates  Videos
Documents  Music      Pictures   snap      '#test#'
workspace
xxxxxxx@xxxxxxx-lap:~$
```

- 加载“texlive2019.iso”文件
 - ☞ Win10 直接装载或用虚拟光驱加载
 - ☞ Win7 及其它用虚拟光驱加载
- 解压“texlive2019.iso”文件



解压...

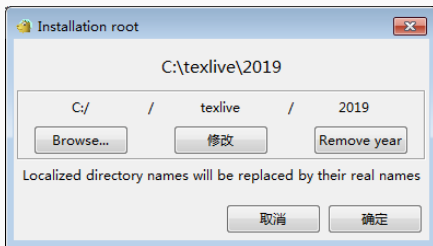
得到安装文件



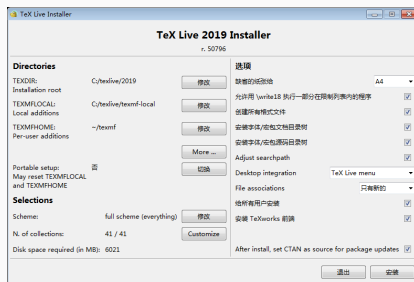
- ❖ 双击“install-tl-advanced”文件启动 T_EX Live 安装



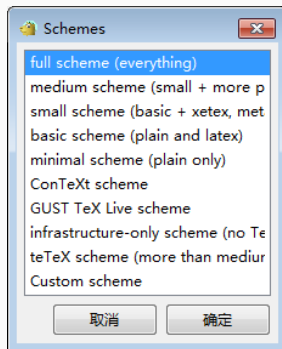
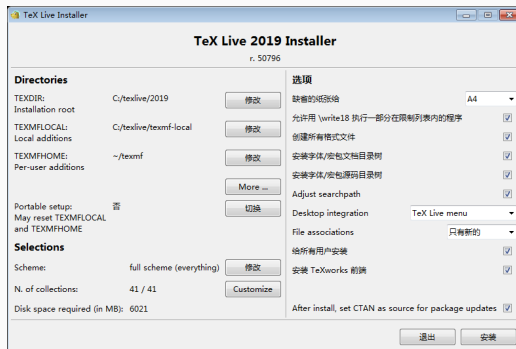
- 单击“Installation root”后的 **修改** 按钮可更改 **安装根目录**



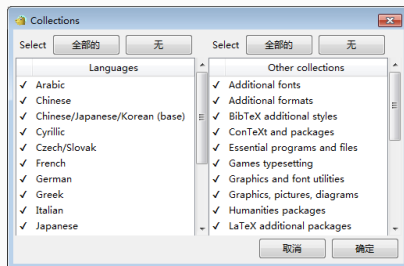
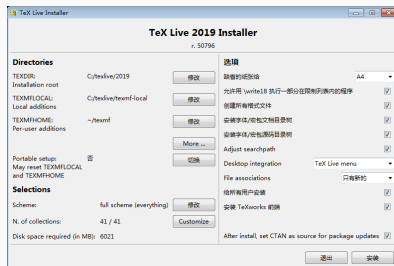
单击 **Advanced** 按钮可定制安装选项



单击“Scheme”后的 **修改** 按钮可选择安装方案

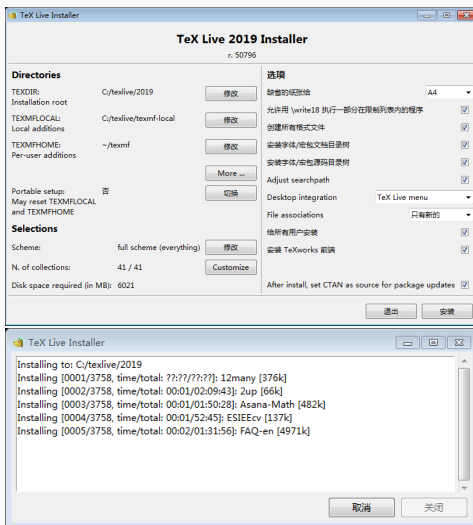


单击“collections”后的 **Customize** 按钮可选择安装宏包*



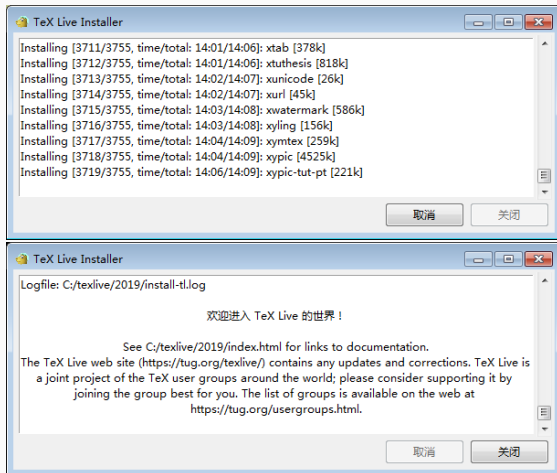
* 建议完整安装宏包，以备不时之需。

完成定制后单击 **安装** 进行 T_EX Live 2019 安装



安装...

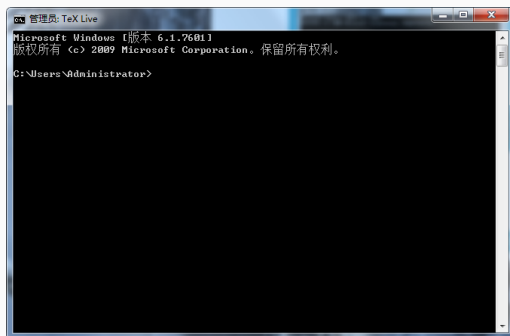
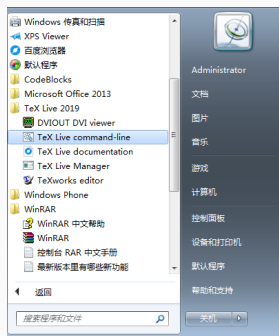
单击 **关闭** 完成 T_EX Live 2019 安装



☛ T_EX Live 2019 开始菜单

☛ TeX Live command-line: 启动命令行

☛ 用于执行 xelatex、texdoc 等 L^AT_EX 命令



☞ T_EX Live 2019 开始菜单

☞ TeX Live documentation: 文档查阅



The screenshot shows the Windows Start menu on the left with 'TeX Live 2019' expanded, listing applications like 'TeX Live command-line', 'TeX Live documentation', 'TeX Live Manager', and 'TeXworks editor'. On the right, a web browser displays the 'TeX Live documentation' page. The page lists principal documentation available on TeX Live, including top-level README in English, TeX Live manual in English, translations of the TeX Live manual in various languages (German, Czech, Italian, Polish, Russian, Serbian, Simplified Chinese), available package documentation, and some TeX Live web pages. Below this, a list of package names is provided, each with a brief description and a link to its documentation.

TeX Live documentation

The principal documentation available on TeX Live:

- [top-level README in English](#) ([translations](#)).
- [TeX Live manual in English](#) (also available as [PDF](#)).
- Translations of the TeX Live manual:
 - [German](#) ([PDF](#))
 - [Czech](#) ([PDF](#))
 - [Italian](#) ([PDF](#))
 - [Polish](#) ([PDF](#))
 - [Russian](#) ([PDF](#))
 - [Serbian](#) ([PDF](#))
 - [Simplified Chinese](#)
 (Some versions may not be available if you did not install the full TeX Live.)
- [Available package documentation](#)
- Some TeX Live web pages:
 - Documentation on [installat](#) and [almac](#). (Use the programs with the sole option `-help`.)
 - [Quick installation recipe](#) ([this-like system](#)).
 - [Installation and other notes on Windows](#)
- Finally, the [texdoc program](#), installed with TeX Live, may be useful

[TeX Live home page.](#)

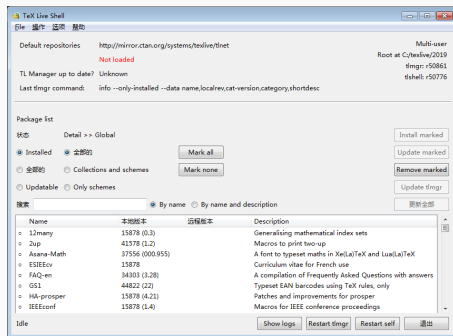
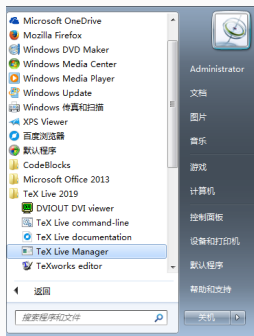
TeX Live documentation

This document lists links to all HTML and PDF files for packages and guides contained in [TeX Live](#), sorted by package name.

[1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-31-32-33-34-35-36-37-38-39-40-41-42-43-44-45-46-47-48-49-50-51-52-53-54-55-56-57-58-59-60-61-62-63-64-65-66-67-68-69-70-71-72-73-74-75-76-77-78-79-80-81-82-83-84-85-86-87-88-89-90-91-92-93-94-95-96-97-98-99-100-101-102-103-104-105-106-107-108-109-110-111-112-113-114-115-116-117-118-119-120-121-122-123-124-125-126-127-128-129-130-131-132-133-134-135-136-137-138-139-140-141-142-143-144-145-146-147-148-149-150-151-152-153-154-155-156-157-158-159-160-161-162-163-164-165-166-167-168-169-170-171-172-173-174-175-176-177-178-179-180-181-182-183-184-185-186-187-188-189-190-191-192-193-194-195-196-197-198-199-200-201-202-203-204-205-206-207-208-209-210-211-212-213-214-215-216-217-218-219-220-221-222-223-224-225-226-227-228-229-230-231-232-233-234-235-236-237-238-239-240-241-242-243-244-245-246-247-248-249-250-251-252-253-254-255-256-257-258-259-260-261-262-263-264-265-266-267-268-269-270-271-272-273-274-275-276-277-278-279-280-281-282-283-284-285-286-287-288-289-290-291-292-293-294-295-296-297-298-299-300-301-302-303-304-305-306-307-308-309-310-311-312-313-314-315-316-317-318-319-320-321-322-323-324-325-326-327-328-329-330-331-332-333-334-335-336-337-338-339-340-341-342-343-344-345-346-347-348-349-350-351-352-353-354-355-356-357-358-359-360-361-362-363-364-365-366-367-368-369-370-371-372-373-374-375-376-377-378-379-380-381-382-383-384-385-386-387-388-389-390-391-392-393-394-395-396-397-398-399-400-401-402-403-404-405-406-407-408-409-410-411-412-413-414-415-416-417-418-419-420-421-422-423-424-425-426-427-428-429-430-431-432-433-434-435-436-437-438-439-440-441-442-443-444-445-446-447-448-449-450-451-452-453-454-455-456-457-458-459-460-461-462-463-464-465-466-467-468-469-470-471-472-473-474-475-476-477-478-479-480-481-482-483-484-485-486-487-488-489-490-491-492-493-494-495-496-497-498-499-500-501-502-503-504-505-506-507-508-509-510-511-512-513-514-515-516-517-518-519-520-521-522-523-524-525-526-527-528-529-530-531-532-533-534-535-536-537-538-539-540-541-542-543-544-545-546-547-548-549-550-551-552-553-554-555-556-557-558-559-560-561-562-563-564-565-566-567-568-569-570-571-572-573-574-575-576-577-578-579-580-581-582-583-584-585-586-587-588-589-590-591-592-593-594-595-596-597-598-599-600-601-602-603-604-605-606-607-608-609-610-611-612-613-614-615-616-617-618-619-620-621-622-623-624-625-626-627-628-629-630-631-632-633-634-635-636-637-638-639-640-641-642-643-644-645-646-647-648-649-650-651-652-653-654-655-656-657-658-659-660-661-662-663-664-665-666-667-668-669-670-671-672-673-674-675-676-677-678-679-680-681-682-683-684-685-686-687-688-689-690-691-692-693-694-695-696-697-698-699-700-701-702-703-704-705-706-707-708-709-710-711-712-713-714-715-716-717-718-719-720-721-722-723-724-725-726-727-728-729-730-731-732-733-734-735-736-737-738-739-740-741-742-743-744-745-746-747-748-749-750-751-752-753-754-755-756-757-758-759-760-761-762-763-764-765-766-767-768-769-770-771-772-773-774-775-776-777-778-779-780-781-782-783-784-785-786-787-788-789-790-791-792-793-794-795-796-797-798-799-800-801-802-803-804-805-806-807-808-809-810-811-812-813-814-815-816-817-818-819-820-821-822-823-824-825-826-827-828-829-830-831-832-833-834-835-836-837-838-839-840-841-842-843-844-845-846-847-848-849-850-851-852-853-854-855-856-857-858-859-860-861-862-863-864-865-866-867-868-869-870-871-872-873-874-875-876-877-878-879-880-881-882-883-884-885-886-887-888-889-890-891-892-893-894-895-896-897-898-899-900-901-902-903-904-905-906-907-908-909-910-911-912-913-914-915-916-917-918-919-920-921-922-923-924-925-926-927-928-929-930-931-932-933-934-935-936-937-938-939-940-941-942-943-944-945-946-947-948-949-950-951-952-953-954-955-956-957-958-959-960-961-962-963-964-965-966-967-968-969-970-971-972-973-974-975-976-977-978-979-980-981-982-983-984-985-986-987-988-989-990-991-992-993-994-995-996-997-998-999-1000-1001-1002-1003-1004-1005-1006-1007-1008-1009-1010-1011-1012-1013-1014-1015-1016-1017-1018-1019-1020-1021-1022-1023-1024-1025-1026-1027-1028-1029-1030-1031-1032-1033-1034-1035-1036-1037-1038-1039-1040-1041-1042-1043-1044-1045-1046-1047-1048-1049-1050-1051-1052-1053-1054-1055-1056-1057-1058-1059-1060-1061-1062-1063-1064-1065-1066-1067-1068-1069-1070-1071-1072-1073-1074-1075-1076-1077-1078-1079-1080-1081-1082-1083-1084-1085-1086-1087-1088-1089-1090-1091-1092-1093-1094-1095-1096-1097-1098-1099-1100-1101-1102-1103-1104-1105-1106-1107-1108-1109-1110-1111-1112-1113-1114-1115-1116-1117-1118-1119-1120-1121-1122-1123-1124-1125-1126-1127-1128-1129-1130-1131-1132-1133-1134-1135-1136-1137-1138-1139-1140-1141-1142-1143-1144-1145-1146-1147-1148-1149-1150-1151-1152-1153-1154-1155-1156-1157-1158-1159-1160-1161-1162-1163-1164-1165-1166-1167-1168-1169-1170-1171-1172-1173-1174-1175-1176-1177-1178-1179-1180-1181-1182-1183-1184-1185-1186-1187-1188-1189-1190-1191-1192-1193-1194-1195-1196-1197-1198-1199-1200-1201-1202-1203-1204-1205-1206-1207-1208-1209-1210-1211-1212-1213-1214-1215-1216-1217-1218-1219-1220-1221-1222-1223-1224-1225-1226-1227-1228-1229-1230-1231-1232-1233-1234-1235-1236-1237-1238-1239-1240-1241-1242-1243-1244-1245-1246-1247-1248-1249-1250-1251-1252-1253-1254-1255-1256-1257-1258-1259-1260-1261-1262-1263-1264-1265-1266-1267-1268-1269-1270-1271-1272-1273-1274-1275-1276-1277-1278-1279-1280-1281-1282-1283-1284-1285-1286-1287-1288-1289-1290-1291-1292-1293-1294-1295-1296-1297-1298-1299-1300-1301-1302-1303-1304-1305-1306-1307-1308-1309-1310-1311-1312-1313-1314-1315-1316-1317-1318-1319-1320-1321-1322-1323-1324-1325-1326-1327-1328-1329-1330-1331-1332-1333-1334-1335-1336-1337-1338-1339-1340-1341-1342-1343-1344-1345-1346-1347-1348-1349-1350-1351-1352-1353-1354-1355-1356-1357-1358-1359-1360-1361-1362-1363-1364-1365-1366-1367-1368-1369-1370-1371-1372-1373-1374-1375-1376-1377-1378-1379-1380-1381-1382-1383-1384-1385-1386-1387-1388-1389-1390-1391-1392-1393-1394-1395-1396-1397-1398-1399-1400-1401-1402-1403-1404-1405-1406-1407-1408-1409-1410-1411-1412-1413-1414-1415-1416-1417-1418-1419-1420-1421-1422-1423-1424-1425-1426-1427-1428-1429-1430-1431-1432-1433-1434-1435-1436-1437-1438-1439-1440-1441-1442-1443-1444-1445-1446-1447-1448-1449-1450-1451-1452-1453-1454-1455-1456-1457-1458-1459-1460-1461-1462-1463-1464-1465-1466-1467-1468-1469-1470-1471-1472-1473-1474-1475-1476-1477-1478-1479-1480-1481-1482-1483-1484-1485-1486-1487-1488-1489-1490-1491-1492-1493-1494-1495-1496-1497-1498-1499-1500-1501-1502-1503-1504-1505-1506-1507-1508-1509-1510-1511-1512-1513-1514-1515-1516-1517-1518-1519-1520-1521-1522-1523-1524-1525-1526-1527-1528-1529-1530-1531-1532-1533-1534-1535-1536-1537-1538-1539-1540-1541-1542-1543-1544-1545-1546-1547-1548-1549-1550-1551-1552-1553-1554-1555-1556-1557-1558-1559-1560-1561-1562-1563-1564-1565-1566-1567-1568-1569-1570-1571-1572-1573-1574-1575-1576-1577-1578-1579-1580-1581-1582-1583-1584-1585-1586-1587-1588-1589-1590-1591-1592-1593-1594-1595-1596-1597-1598-1599-1600-1601-1602-1603-1604-1605-1606-1607-1608-1609-1610-1611-1612-1613-1614-1615-1616-1617-1618-1619-1620-1621-1622-1623-1624-1625-1626-1627-1628-1629-1630-1631-1632-1633-1634-1635-1636-1637-1638-1639-1640-1641-1642-1643-1644-1645-1646-1647-1648-1649-1650-1651-1652-1653-1654-1655-1656-1657-1658-1659-1660-1661-1662-1663-1664-1665-1666-1667-1668-1669-1670-1671-1672-1673-1674-1675-1676-1677-1678-1679-1680-1681-1682-1683-1684-1685-1686-1687-1688-1689-1690-1691-1692-1693-1694-1695-1696-1697-1698-1699-1700-1701-1702-1703-1704-1705-1706-1707-1708-1709-1710-1711-1712-1713-1714-1715-1716-1717-1718-1719-1720-1721-1722-1723-1724-1725-1726-1727-1728-1729-1730-1731-1732-1733-1734-1735-1736-1737-1738-1739-1740-1741-1742-1743-1744-1745-1746-1747-1748-1749-1750-1751-1752-1753-1754-1755-1756-1757-1758-1759-1760-1761-1762-1763-1764-1765-1766-1767-1768-1769-1770-1771-1772-1773-1774-1775-1776-1777-1778-1779-1780-1781-1782-1783-1784-1785-1786-1787-1788-1789-1790-1791-1792-1793-1794-1795-1796-1797-1798-1799-1800-1801-1802-1803-1804-1805-1806-1807-1808-1809-1810-1811-1812-1813-1814-1815-1816-1817-1818-1819-1820-1821-1822-1823-1824-1825-1826-1827-1828-1829-1830-1831-1832-1833-1834-1835-1836-1837-1838-1839-1840-1841-1842-1843-1844-1845-1846-1847-1848-1849-1850-1851-1852-1853-1854-1855-1856-1857-1858-1859-1860-1861-1862-1863-1864-1865-1866-1867-1868-1869-1870-1871-1872-1873-1874-1875-1876-1877-1878-1879-1880-1881-1882-1883-1884-1885-1886-1887-1888-1889-1890-1891-1892-1893-1894-1895-1896-1897-1898-1899-1900-1901-1902-1903-1904-1905-1906-1907-1908-1909-1910-1911-1912-1913-1914-1915-1916-1917-1918-1919-1920-1921-1922-1923-1924-1925-1926-1927-1928-1929-1930-1931-1932-1933-1934-1935-1936-1937-1938-1939-1940-1941-1942-1943-1944-1945-1946-1947-1948-1949-1950-1951-1952-1953-1954-1955-1956-1957-1958-1959-1960-1961-1962-1963-1964-1965-1966-1967-1968-1969-1970-1971-1972-1973-1974-1975-1976-1977-1978-1979-1980-1981-1982-1983-1984-1985-1986-1987-1988-1989-1990-1991-1992-1993-1994-1995-1996-1997-1998-1999-2000-2001-2002-2003-2004-2005-2006-2007-2008-2009-2010-2011-2012-2013-2014-2015-2016-2017-2018-2019-2020-2021-2022-2023-2024-2025-2026-2027-2028-2029-2030-2031-2032-2033-2034-2035-2036-2037-2038-2039-2040-2041-2042-2043-2044-2045-2046-2047-2048-2049-2050-2051-2052-2053-2054-2055-2056-2057-2058-2059-2060-2061-2062-2063-2064-2065-2066-2067-2068-2069-2070-2071-2072-2073-2074-2075-2076-2077-2078-2079-2080-2081-2082-2083-2084-2085-2086-2087-2088-2089-2090-2091-2092-2093-2094-2095-2096-2097-2098-2099-2100-2101-2102-2103-2104-2105-2106-2107-2108-2109-2110-2111-2112-2113-2114-2115-2116-2117-2118-2119-2120-2121-2122-2123-2124-2125-2126-2127-2128-2129-2130-2131-2132-2133-2134-2135-2136-2137-2138-2139-2140-2141-2142-2143-2144-2145-2146-2147-2148-2149-2150-2151-2152-2153-2154-2155-2156-2157-2158-2159-2160-2161-2162-2163-2164-2165-2166-2167-2168-2169-2170-2171-2172-2173-2174-2175-2176-2177-2178-2179-2180-2181-2182-2183-2184-2185-2186-2187-2188-2189-2190-2191-2192-2193-2194-2195-2196-2197-2198-2199-2200-2201-2202-2203-2204-2205-2206-2207-2208-2209-2210-2211-2212-2213-2214-2215-2216-2217-2218-2219-2220-2221-2222-2223-2224-2225-2226-2227-2228-2229-2230-2231-2232-2233-2234-2235-2236-2237-2238-2239-2240-2241-2242-2243-2244-2245-2246-2247-2248-2249-2250-2251-2252-2253-2254-2255-2256-2257-2258-2259-2260-2261-2262-2263-2264-2265-2266-2267-2268-2269-2270-2271-2272-2273-2274-2275-2276-2277-2278-2279-2280-2281-2282-2283-2284-2285-2286-2287-2288-2289-2290-2291-2292-2293-2294-2295-2296-2297-2298-2299-2300-2301-2302-2303-2304-2305-2306-2307-2308-2309-2310-2311-2312-2313-2314-2315-2316-2317-2318-2319-2320-2321-2322-2323-2324-2325-2326-2327-2328-2329-2330-2331-2332-2333-2334-2335-2336-2337-2338-2339-2340-2341-2342-2343-2344-2345-2346-2347-2348-2349-2350-2351-2352-2353-2354-2355-2356-2357-2358-2359-2360-2361-2362-2363-2364-2365-2366-2367-2368-2369-2370-2371-2372-2373-2374-2375-2376-2377-2378-2379-2380-2381-2382-2383-2384-2385-2386-2387-2388-2389-2390-2391-2392-2393-2394-2395-2396-2397-2398-2399-2400-2401-2402-2403-2404-2405-2406-2407-2408-2409-2410-2411-2412-2413-2414-2415-2416-2417-2418-2419-2420-2421-2422-2423-2424-2425-2426-2427-2428-2429-2430-2431-2432-2433-2434-2435-2436-2437-2438-2439-2440-2441-2442-2443-2444-2445-2446-2447-2448-2449-2450-2451-2452-2453-2454-2455-2456-2457-2458-2459-2460-2461-2462-2463-2464-2465-2466-2467-2468-2469-2470-2471-2472-2473-2474-2475-2476-2477-2478-2479-2480-2481-2482-2483-2484-2485-2486-2487-2488-2489-2490-2491-2492-2493-2494-2495-2496-2497-2498-2499-2500-2501-2502-2503-2504-2505-2506-2507-2508-2509-2510-2511-2512-2513-2514-2515](#)

☛ T_EX Live 2019 开始菜单

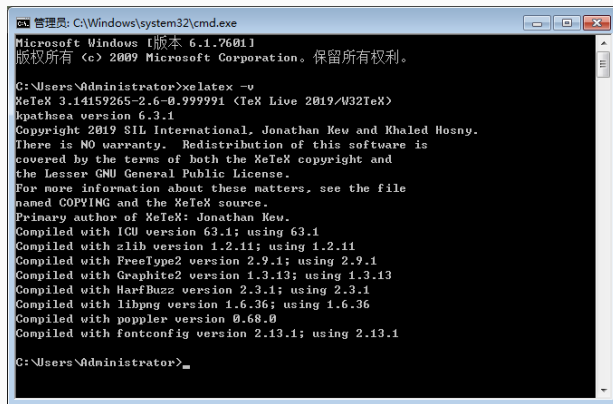
☛ TeX Live Manager : 升级维护



检查 T_EX Live 2019 是否安装成功

打开命令行，输入：xelatex -v

正常：输出**版本**信息



```
管理员: C:\Windows\system32\cmd.exe
Microsoft Windows [版本 6.1.7601]
版权所有 (c) 2009 Microsoft Corporation。保留所有权利。

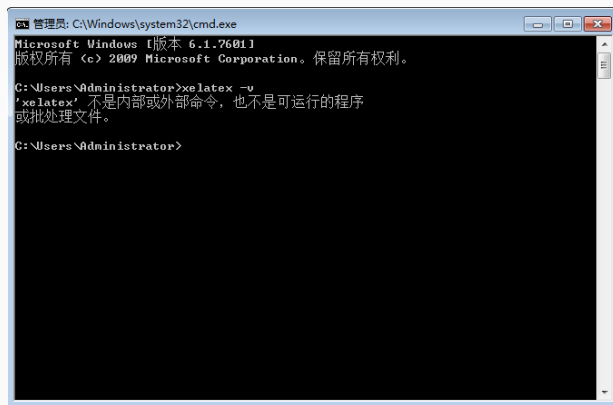
C:\Users\Administrator>xelatex -v
XeTeX 3.14159265-2.6-0.999991 <TeX Live 2019/W32TeX>
kpathsea version 6.3.1
Copyright 2019 SIL International, Jonathan Kew and Khaled Hosny.
There is NO warranty. Redistribution of this software is
covered by the terms of both the XeTeX copyright and
the Lesser GNU General Public License.
For more information about these matters, see the file
named COPYING and the XeTeX source.
Primary author of XeTeX: Jonathan Kew.
Compiled with ICU version 63.1; using 63.1
Compiled with zlib version 1.2.11; using 1.2.11
Compiled with FreeType2 version 2.9.1; using 2.9.1
Compiled with Graphite2 version 1.3.13; using 1.3.13
Compiled with HarfBuzz version 2.3.1; using 2.3.1
Compiled with libpng version 1.6.36; using 1.6.36
Compiled with poppler version 0.68.0
Compiled with fontconfig version 2.13.1; using 2.13.1

C:\Users\Administrator>_
```

👉 检查 T_EX Live 2019 是否安装成功

👉 打开命令行，输入：xelatex -v

👉 错误：输出**命令错误**，一般是**环境变量**配置错误造成的



```
管理员: C:\Windows\system32\cmd.exe
Microsoft Windows [版本 6.1.7601]
版权所有 (c) 2009 Microsoft Corporation。保留所有权利。

C:\Users\Administrator>xelatex -v
'xelatex' 不是内部或外部命令，也不是可运行的程序
或批处理文件。

C:\Users\Administrator>
```

👉 环境变量

👉 右击桌面上“ThePC”(Win10) 或“我的电脑”(Win7)

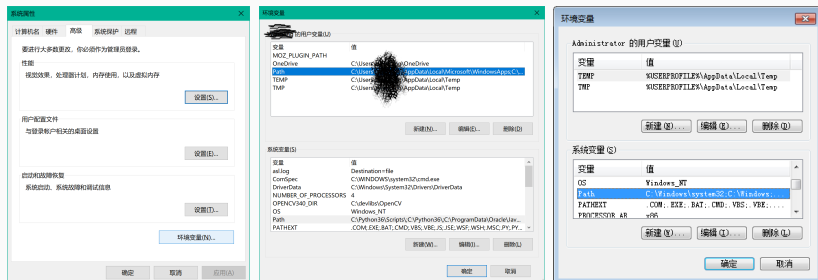
👉 选择 **属性** 打开系统属性对话框



❏ 环境变量

❏ 环境变量对话框

- ❏ 选择 **高级系统设置** 打开系统属性对话框
- ❏ 在系统属性对话框中 **环境变量** 打开环境变量对话框
- ❏ 可以对当前用户设置，也可以对系统用户进行设置



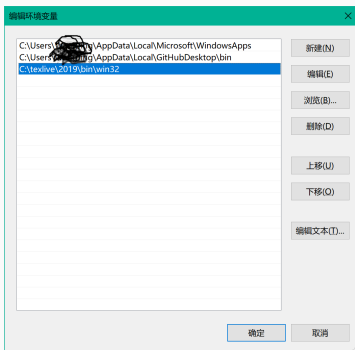
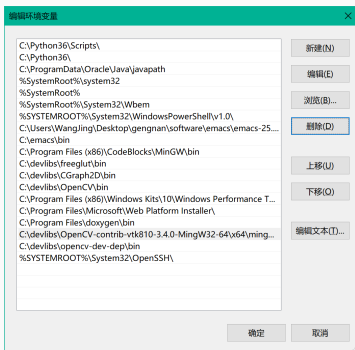
👉 环境变量

🔗 双击“Path”环境变量进行设置 (Win10)

🔗 通过 **新建** 按钮创建环境变量

🔗 通过 **编辑** 按钮编辑环境变量

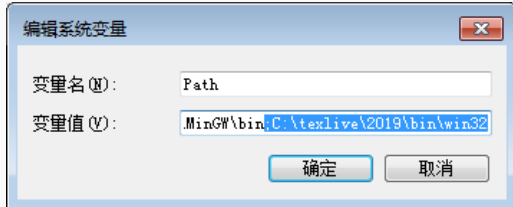
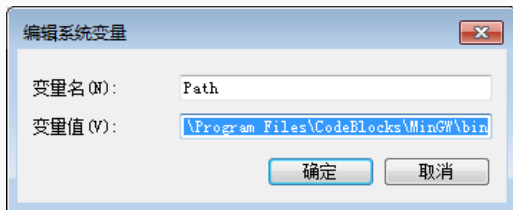
🔗 将“T_EX Live 2019”的“bin”安装路径添加到环境变量



☛ 环境变量

☞ 双击“Path”环境变量进行设置 (Win7)

☞ 将“T_EX Live 2019”的“bin”安装路径添加到环境变量

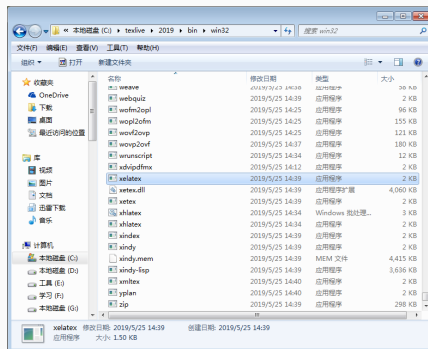


☛ 环境变量

☞ 需确保“T_EX Live 2019”的“bin”路径正确

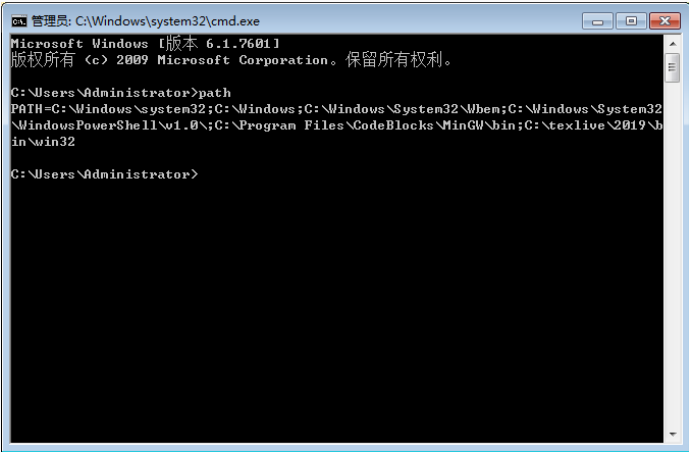
☞ 默认：C:\texlive\2019\bin\win32

☞ “**xelatex.exe**”等可执行文件所在的路径



☛ 环境变量

☞ 也可以在命令行用“path”命令查看环境变量



```
管理员: C:\Windows\system32\cmd.exe
Microsoft Windows [版本 6.1.7601]
版权所有 (c) 2009 Microsoft Corporation。保留所有权利。

C:\Users\Administrator>path
PATH=C:\Windows\system32;C:\Windows;C:\Windows\System32\Wbem;C:\Windows\System32\WindowsPowerShell\v1.0\;C:\Program Files\CodeBlocks\MinGW\bin;C:\texlive\2019\bin\win32

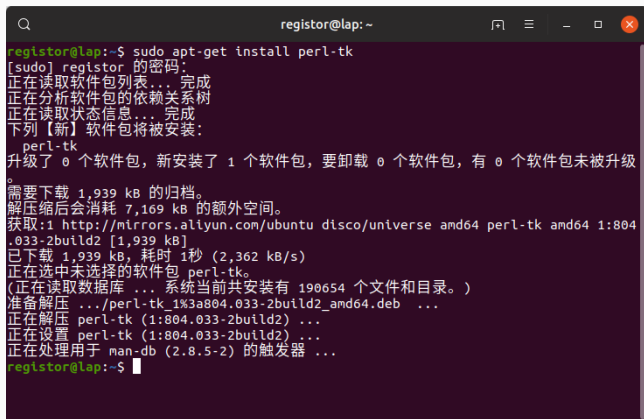
C:\Users\Administrator>
```

如果环境变量正确，还无法执行“xelatex -v”，
那就重装 T_EX Live 2019 吧！

图形化安装界面需安装“perl”的“tk”组件

打开终端：Ctrl + Alt + T

执行：sudo apt-get install perl-tk

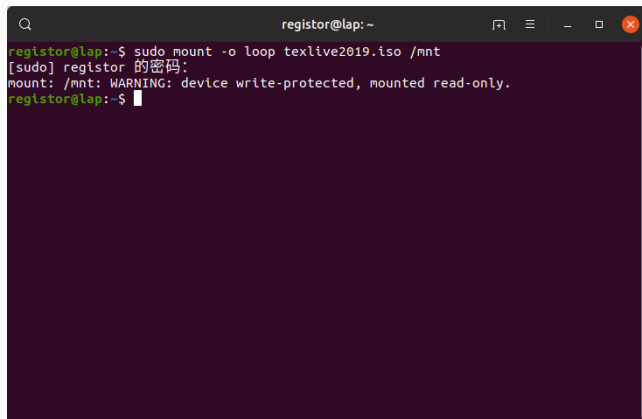


```
registor@lap: ~  
registor@lap:~$ sudo apt-get install perl-tk  
[sudo] registor 的密码：  
正在读取软件包列表... 完成  
正在分析软件包的依赖关系树  
正在读取状态信息... 完成  
下列【新】软件包将被安装：  
  perl-tk  
升级了 0 个软件包，新安装了 1 个软件包，要卸载 0 个软件包，有 0 个软件包未被升级。  
需要下载 1,939 kB 的归档。  
解压后会消耗 7,169 kB 的额外空间。  
获取:1 http://mirrors.aliyun.com/ubuntu disco/universe amd64 perl-tk amd64 1:804.033-2build2 [1,939 kB]  
已下载 1,939 kB，耗时 1 秒 (2,362 kB/s)  
正在选中未选择的软件包 perl-tk。  
(正在读取数据库 ... 系统当前共安装有 190654 个文件和目录。)  
准备解压 .../perl-tk_1%3a804.033-2build2_amd64.deb ...  
正在解压 perl-tk (1:804.033-2build2) ...  
正在设置 perl-tk (1:804.033-2build2) ...  
正在处理用于 man-db (2.8.5-2) 的触发器 ...  
registor@lap:~$
```

加载“texlive2019.iso”镜像文件

打开终端：Ctrl + Alt + T

执行：sudo mount -o loop texlive2019.iso /mnt



```
registor@lap: ~  
registor@lap:~$ sudo mount -o loop texlive2019.iso /mnt  
[sudo] registor 的密码：  
mount: /mnt: WARNING: device write-protected, mounted read-only.  
registor@lap:~$
```

☛ 启动 T_EX Live 2019 图形化安装界面

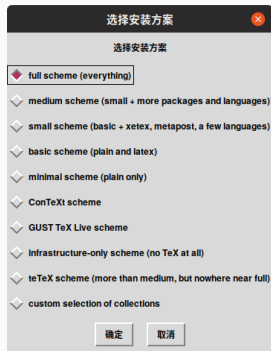
- ☞ 打开终端: `Ctrl` + `Alt` + `T`
- ☞ 执行: `cd /mnt`
- ☞ 执行: `sudo ./install-tl -gui`

```
registor@lap:~$ sudo mount -o loop texlive2019.iso /mnt
[sudo] registor 的密码:
mount: /mnt: WARNING: device write-protected, mounted read-only.
registor@lap:~$ cd /mnt
registor@lap:~$ sudo ./install-tl -gui
Can't exec "wish": 没有那个文件或目录 at ./install-tl line 89.
Can't exec "wish8.6": 没有那个文件或目录 at ./install-tl line 89.
Can't exec "wish8.5": 没有那个文件或目录 at ./install-tl line 89.
Can't exec "tclkit": 没有那个文件或目录 at ./install-tl line 89.
Setting opt_gui to perlTk instead at ./install-tl line 350.
Loading ./tlpkg/texlive.tlpdb
Installing TeX Live 2019 from: . (verified)
Platform: x86_64-linux => 'GNU/Linux on x86_64'
Distribution: inst (compressed)
Directory for temporary files: /tmp/h0lpSGEKSE
```



☛ 选择 T_EX Live 2019 安装方案及宏包组件*

☞ 使用 修改 按钮选择不同安装选项



* 建议全部安装，以备不时之需。

- 选择 T_EX Live 2019 安装方案及宏包组件
 - 可以更改安装路径
 - 注意创建**指向系统目录的符号链接***



* 否则无法正确执行各个编译命令。

- ☛ 选择 T_EX Live 2019 安装方案及宏包组件
- ☞ 确认无误后，单击 **安装 T_EX Live** 进行安装

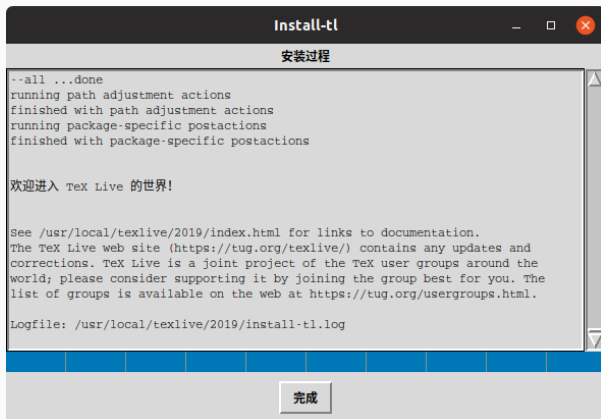


安装...

安装结束

单击 **完成**

卸载镜像文件：`cd /; sudo umount /mnt`

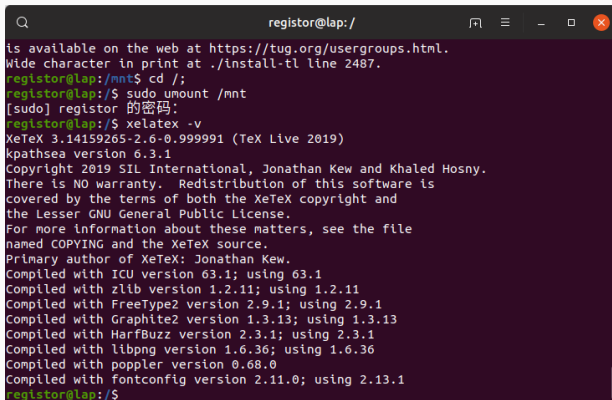


☞ 检查 T_EX Live 2019 是否安装成功

☞ 打开终端: Ctrl + Alt + T

☞ 输入命令: `xelatex -v`

🔗 正常: 输出**版本**信息



```
registor@lap: /  
is available on the web at https://tug.org/usergroups.html.  
Wide character in print at ./install-tl line 2487.  
registor@lap:/mnt$ cd /;  
registor@lap:/$ sudo umount /mnt  
[sudo] registor 的密码:  
registor@lap:/$ xelatex -v  
XeTeX 3.14159265-2.6-0.999991 (TeX Live 2019)  
kpathsea version 6.3.1  
Copyright 2019 SIL International, Jonathan Kew and Khaled Hosny.  
There is NO warranty. Redistribution of this software is  
covered by the terms of both the XeTeX copyright and  
the Lesser GNU General Public License.  
For more information about these matters, see the file  
named COPYING and the XeTeX source.  
Primary author of XeTeX: Jonathan Kew.  
Compiled with ICU version 63.1; using 63.1  
Compiled with zlib version 1.2.11; using 1.2.11  
Compiled with FreeType2 version 2.9.1; using 2.9.1  
Compiled with Graphite2 version 1.3.13; using 1.3.13  
Compiled with HarfBuzz version 2.3.1; using 2.3.1  
Compiled with libpng version 1.6.36; using 1.6.36  
Compiled with poppler version 0.68.0  
Compiled with fontconfig version 2.11.0; using 2.13.1  
registor@lap:/$
```

如果无法执行“xelatex -v”，那就重装 T_EX Live 2019 吧!
特别要注意的是 **创建符号链接!**

更新 T_EX Live



✎ 执行“tlmgr”更新 T_EX Live 2019

✎ 打开命令行

✎ 输入命令：tlmgr update --self --all (Windows) *

✎ 输入命令：sudo tlmgr update --all (Ubuntu)

```

Wget [100%] http://mirror.lzu.edu.cn/CTAN/
Microsoft Windows [版本 6.1.7601]
版权所有 (c) 2009 Microsoft Corporation. 保留所有权利。

C:\Users\Administrator>tlmgr update --self --all
tlmgr.pl: package repository http://mirror.lzu.edu.cn/CTAN/systems/texlive/tlnet
(Got verified: gpg unavailible)
tlmgr.pl: saving backups to C:\texlive\2019\c\lpkg\backups
[ 1/22] auto-remove: mathalfa ... done
[ 2/22, ??:??:??:??] update: Asana-Math [662k] (37556 -> 50999) ... done
[ 3/22, 00:03:20:07] update: IEEEtran [564k] (38238 -> 51065) ... done
[ 4/22, 00:06:22:33] update: acnart [3949k] (50662 -> 51061) ... done
[ 5/22, 00:08:10:16] update: algolrevivd [863k] (44704 -> 51210) ... done
[ 6/22, 00:11:12:06] update: alterqem [963k] (23385 -> 51205) ... done
[ 7/22, 00:13:12:01] update: animate [3124k] (50278 -> 51009) ... done
[ 8/22, 00:15:09:50] update: archaeologin [1131k] (48763 -> 50908) ... done
[ 9/22, 00:17:10:02] update: asneconf [316k] (50045 -> 50977) ... done
[10/22, 00:21:12:03] update: babel [1410k] (50741 -> 50977) ... done
[11/22, 00:25:12:41] update: backnaur [232k] (28513 -> 51001) ... done

```

```

registor@lap:/$ sudo tlmgr update --all
tlmgr: package repository http://mirrors.tuna.tsinghua.edu.cn/CTAN/systems/texlive/tlnet (verified)
tlmgr: saving backups to /usr/local/texlive/2019/tlpkg/backups
[ 1/22] auto-remove: mathalfa ... done
[ 2/22, ??:??:??:??] update: Asana-Math [662k] (37556 -> 50999) ... done
[ 3/22, 00:02:19:22] update: IEEEtran [564k] (38238 -> 51065) ... done
[ 4/22, 00:03:15:42] update: acnart [3949k] (50662 -> 51061) ... done
[ 5/22, 00:06:07:26] update: algolrevivd [863k] (44704 -> 51210) ... done
[ 6/22, 00:08:08:29] update: alterqem [963k] (23385 -> 51205) ... done
[ 7/22, 00:09:08:14] update: animate [3124k] (50278 -> 51009) ... done
[ 8/22, 00:12:07:36] update: archaeologin [1131k] (48763 -> 50908) ... done
[ 9/22, 00:14:07:50] update: asneconf [316k] (50045 -> 50967) ... done
[10/22, 00:16:08:52] update: babel [1410k] (50741 -> 50977) ... done
[11/22, 00:17:00:23] update: backnaur [232k] (28513 -> 51001) ... done
[12/22, 00:19:09:13] update: baskerville [1248k] (49084 -> 51121) ... done
[13/22, 00:21:09:18] update: beamer-rl [183k] (50643 -> 50970) ... done
[14/22, 00:22:09:38] update: beebe [633k] (50834 -> 51108) ... done
[15/22, 00:23:09:39] update: bibzigs [7671k] (49293 -> 51008) ... done
[16/22, 00:28:08:02] update: biblatex-publist [327k] (50085 -> 50989) ... done
[17/22, 00:29:08:12] update: bldt [3058k] (50210 -> 50910) ... done
[18/22, 00:32:07:44] update: brads [676k] (23780 -> 51048) ... done
[19/22, 00:34:08:00] update: brandels-problemset [152k] (50737 -> 50991) ... done

```

*--self 用于更新 tlmgr 自身，也可以根据提示选择是否需要 --self 参数。

更新...

执行“tlmgr”更新 T_EX Live 2019

将 T_EX Live 2019 更新到最新版永远是较好的选择

```
管理员: TeX Live
agn.dat.lua" ...
done running fntuttl-sys --no-error-if-no-engine=luajittex,nfluaajt --byhyphen "
language.dat.lua".
tlmgr.pl: package log updated: C:\texlive\2019\texmf-var\web2c\tlmgr.log

C:\Users\Administrator>xelatex -v
XeTeX 3.14159265-2.6-0.999991 (TeX Live 2019/0321eX)
kpathsea version 6.3.1
Copyright 2019 SIL International, Jonathan Kew and Khaleel Hosny.
There is NO warranty. Redistribution of this software is
covered by the terms of both the XeTeX copyright and
the Lesser GNU General Public License.
For more information about these matters, see the file
named COPYING and the XeTeX source.
Primary author of XeTeX: Jonathan Kew.
Compiled with ICU version 63.1; using 63.1
Compiled with zlib version 1.2.11; using 1.2.11
Compiled with FreeType2 version 2.9.1; using 2.9.1
Compiled with Graphite2 version 1.3.13; using 1.3.13
Compiled with HarfBuzz version 2.3.1; using 2.3.1
Compiled with libpng version 1.6.36; using 1.6.36
Compiled with poppler version 0.68.0
Compiled with fontconfig version 2.13.1; using 2.13.1

C:\Users\Administrator>
```

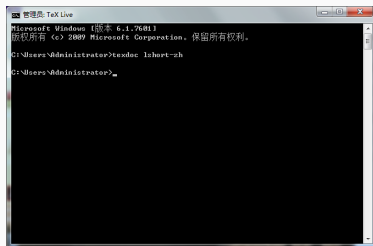
```
Q
registor@lap:/
done running fntuttl-sys --no-error-if-no-engine=luajittex,nfluaajt --no-error-l
f-no-format --byengine euptex.
running fntuttl-sys --no-error-if-no-engine=luajittex,nfluaajt --no-error-if-no-
format --byengine eptex ...
done running fntuttl-sys --no-error-if-no-engine=luajittex,nfluaajt --no-error-l
f-no-format --byengine eptex.
running fntuttl-sys --no-error-if-no-engine=luajittex,nfluaajt --no-error-if-no-
format --byengine aleph ...
done running fntuttl-sys --no-error-if-no-engine=luajittex,nfluaajt --no-error-l
f-no-format --byengine aleph.
running fntuttl-sys --no-error-if-no-engine=luajittex,nfluaajt --byhyphen "/usr/
local/texlive/2019/texmf-var/tex/generic/config/language.dat" ...
done running fntuttl-sys --no-error-if-no-engine=luajittex,nfluaajt --byhyphen
"/usr/local/texlive/2019/texmf-var/tex/generic/config/language.dat".
running fntuttl-sys --no-error-if-no-engine=luajittex,nfluaajt --byhyphen "/usr/
local/texlive/2019/texmf-var/tex/generic/config/language.def" ...
done running fntuttl-sys --no-error-if-no-engine=luajittex,nfluaajt --byhyphen
"/usr/local/texlive/2019/texmf-var/tex/generic/config/language.def".
running fntuttl-sys --no-error-if-no-engine=luajittex,nfluaajt --byhyphen "/usr/
local/texlive/2019/texmf-var/tex/generic/config/language.dat.lua" ...
done running fntuttl-sys --no-error-if-no-engine=luajittex,nfluaajt --byhyphen
"/usr/local/texlive/2019/texmf-var/tex/generic/config/language.dat.lua".
tlmgr: package log updated: /usr/local/texlive/2019/texmf-var/web2c/tlmgr.log
registor@lap:/ $
```

查看文档



在命令执行“texdoc 宏包/文档名称”

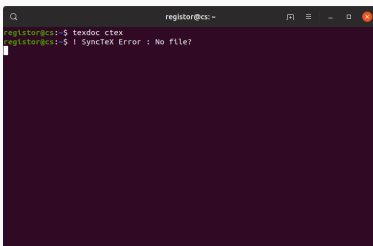
- 自动打开 PDF 阅读器查看
- 查看 T_EX Live 2019 使用说明, 如: `texdoc texlive-zh-cn`
- 查看 L^AT_EX 学习手册, 如: `texdoc lshort-zh`
- 查看宏包使用说明, 如: `texdoc ctex`
- 支持模糊查询



```
管理员: TeX Live
Microsoft Windows [版本 6.1.7601]
版权所有 (c) 2009 Microsoft Corporation. 保留所有权利。

C:\Users\Administrator>texdoc lshort-zh

C:\Users\Administrator>
```



```
register@cs: ~
register@cs:~$ texdoc ctex
register@cs:~$ ! SyncTeX Error : No file?
```

安装 TeXstudio

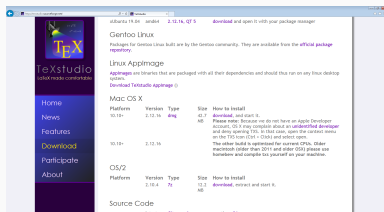
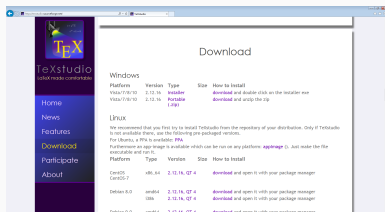


在 TeXstudio 官网下载

Windows

Linux

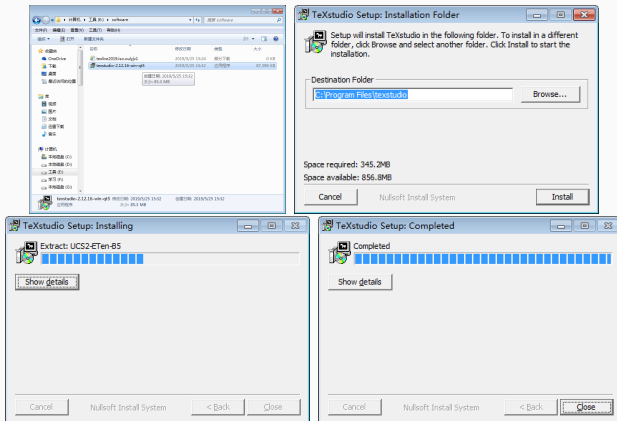
Mac OS X



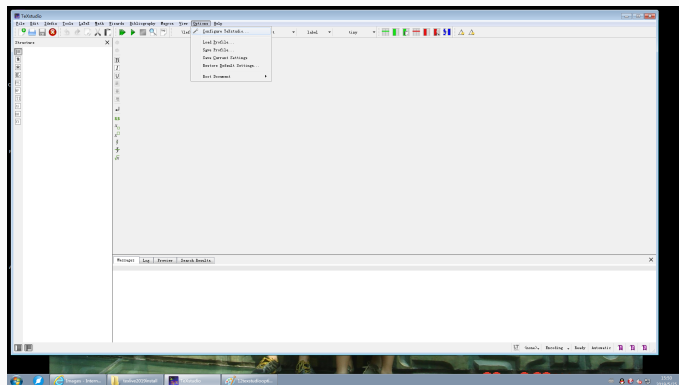
与通用软件安装过程一致

双击“texstudio-2.12.16-win-qt5”启动安装

点击 **Install** 直至 **Close**

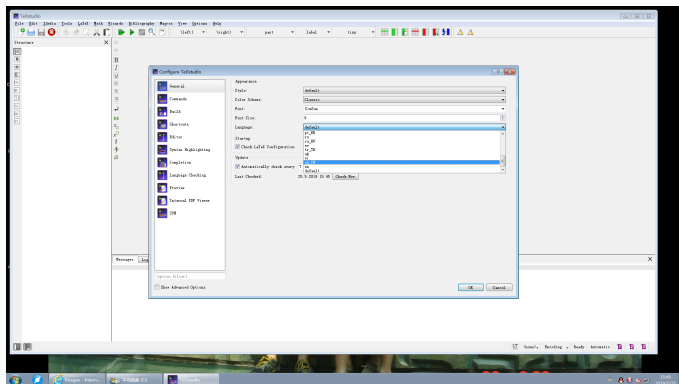


通过 Options → Configure TeXstudio... 菜单设置 TeXstudio



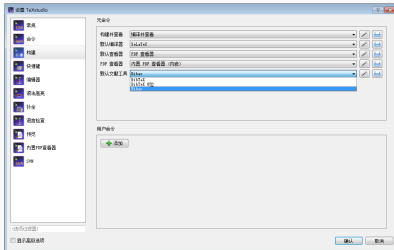
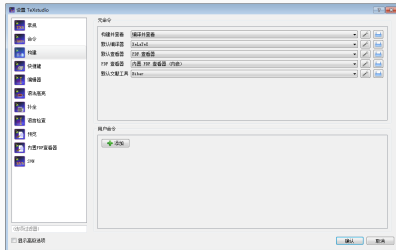
通过 Options > Configure TeXstudio... 菜单设置 TeXstudio

通过将 Language 设置为“zh_CN”设置中文界面



通过选项 > 设置 TeXstudio... 菜单设置 TeXstudio

- 将构建 > 默认编译器 设置为“XeLaTeX”以支持中文 $\text{\LaTeX}$ 文档*
- 将构建 > 默认文献工具 根据需要设置为“BibTeX/Biber”†



* 当有图、表、公式等交叉引用时，需要执行至少两次 XeLaTeX 编译。

† 当有文献交叉引用时，需要执行 XeLaTeX 后执行文献编译后再执行两次 XeLaTeX 编译，多次编译才能得到正确输出结果。

通过选项 > 设置 TeXstudio... 菜单设置 TeXstudio

通过命令 > XeLaTeX 可设置编译参数

如使用-shell-escape 参数以支持“minted”代码排版宏包



通过选项 > 设置 TeXstudio... 菜单设置 TeXstudio

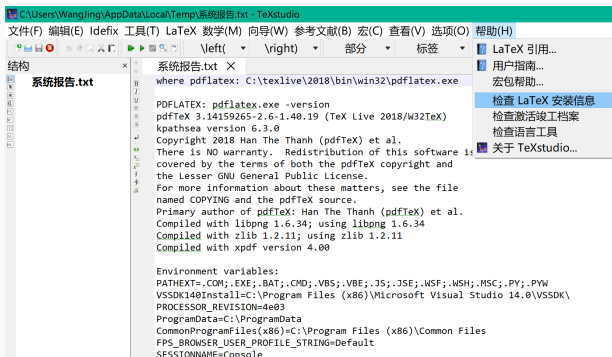
- 将构建 > 默认编译器 设置为“**Latexmk**”实现 1 次性编译[†]
- 需将命令 > Latexmk 的-pdf 参数修改为 **-xelatex** 以支持中文
- 也可以为命令 > Latexmk 添加-shell-escape 编译参数排版宏包



[†]执行 1 次 Latexmk 编译，完成图、表、公式、文献等交叉引用，得到正确输出结果。

通过 帮助 >> 检查 L^AT_EX 安装信息... 检查

若能正确输出**系统报告**，则表示 T_EX Live 2019 能正常工作



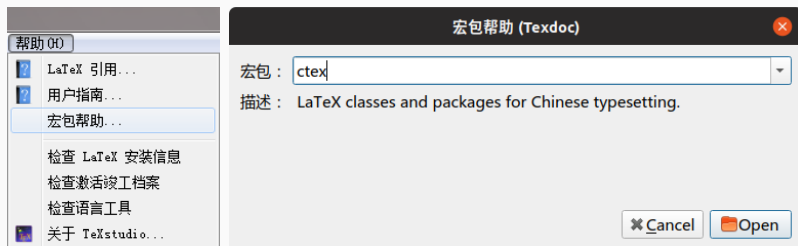
```
C:\Users\WangJing\AppData\Local\Temp\系统报告.txt - TeXstudio
文件(F) 编辑(E) 工具(T) LaTeX 数学(M) 向导(W) 参考文献(B) 宏(C) 查看(V) 选项(O) 帮助(H)
\left( \right) 部分 标签 LaTeX 引用...
结构 系统报告.txt X
系统报告.txt
where pdflatex: C:\texlive\2018\bin\win32\pdflatex.exe

PDFLATEX: pdflatex.exe -version
pdftex 3.14159265-2.6-1.40.19 (TeX Live 2018/W32TeX)
kpathsea version 6.3.0
Copyright 2018 Han The Thanh (pdfTeX) et al.
There is NO warranty. Redistribution of this software is
covered by the terms of both the pdfTeX copyright and
the Lesser GNU General Public License.
For more information about these matters, see the file
named COPYING and the pdfTeX source.
Primary author of pdfTeX: Han The Thanh (pdfTeX) et al.
Compiled with libpng 1.6.34; using libpng 1.6.34
Compiled with zlib 1.2.11; using zlib 1.2.11
Compiled with xpdf version 4.00

Environment variables:
PATHEXT=.COM;.EXE;.BAT;.CMD;.VBS;.VBE;.JS;.JSE;.WSF;.WSH;.MSC;.PY;.PYW
VSSDK140Install=C:\Program Files (x86)\Microsoft Visual Studio 14.0\VSSDK\
PROCESSOR_REVISION=4e03
ProgramData=C:\ProgramData
CommonProgramFiles(x86)=C:\Program Files (x86)\Common Files
FPS_BROWSER_USER_PROFILE_STRING=Default
SESSIONNAME=Console
```

通过 帮助 > 宏包帮助... 检索并查看宏包文档 *

输入需要检索并查看的**宏包名称**



*本质上执行的是“texdoc”命令，建议使用命令行操作，会更加方便。

Mac OS X...

俺没有，没有进行测试
欢迎补充

参考文献



- [1] KNUTH D E.
The T_EXbook: Computers & Typesetting, volume C [M]. 1984.
Boston: Addison-Wesley Publishing Company
- [2] 刘海洋.
L_AT_EX 入门 [M]. 2013.
北京: 电子工业出版社
- [3] 高冈昌生.
翻译: 刘庆, 监修: 陈嵘.
西文排版: 排版的基础和规范 [M]. 2016.
北京: 中信出版集团
- [4] 小林章.
翻译: 刘庆, 监修: 陈嵘.
西文字体: 字体的背景知识和使用方法 [M]. 2014.
北京: 中信出版集团
- [5] OETIKER T, PARTL H, HYNÄ I and SCHLEGL E.
翻译: CT_EX 开发小组.
一份 (不太) 简短的 L_AT_EX 2_ε 介绍: 或 106 分钟了解 L_AT_EX 2_ε [EB/OL]. 2018.
<https://ctan.org/pkg/lshort-zh-cn>
- [6] 汪彧之, 陈晟祺.
如何使用 L_AT_EX 排版论文 [EB/OL]. 2018.
PDF: [↓](#)
- [7] 刘海洋.
L_AT_EX 入门 [EB/OL]. 2013.
PDF: [↓](#)
- [8] 林莲枝.
漫谈 L_AT_EX 排版常见概念误区: 别把 L_AT_EX 当 Word 用! [EB/OL]. 2018.
PDF: [↓](#)
- [9] Wikibooks.
L_AT_EX—Wikibooks, The Free Textbook Project [EB/OL].
<https://en.wikibooks.org/wiki/LaTeX>
- [10] Overleaf.
Overleaf Documentation [EB/OL].
<https://www.overleaf.com/learn>
- [11] 刘庆.
孔雀计划: 中文字体排印的思路 [EB/OL].
<https://thetype.com/kongque>

*感谢现代 L_AT_EX 入门讲座作者曾祥东的汇总整理, 本文中的 \link 等命令也来自该文档, 在此一并对作者致以衷心的感谢!