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-  _____ ID
-  _____
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Font Family	Font Style	Font Format
Font Family	https://cn.windfonts.com/fonts-packages/{font-family}/...	Font Style CSS + woff2
Font Style	github.com/Windfonts/font-licenses	Font Format license-info.json



- app.windfonts.com
- wenfeng.org
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Font ID

“ ”

404



xwwk syhtsc

app.windfonts.com/fonts/{fontId}	
cn.windfonts.com/fonts-packages/{fontId}/...	
wenfeng.org /source/{fontId}/ /license/{fontId}/	
licenses/{fontId}/	Xwwk
license-info.json normalizedName	



Regular Bold ExtraLight
Normal Text Oblique

CSS font-weight CSS CSS

CSS

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CSS ☐ ☐ ☐ ☐

font-family

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CSS ☐ ☐ ☐ ☐

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ID ID

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REST API [] [] [] [] []

1

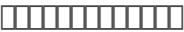
属性名	属性型	属性値
embedding	string / null	埋め込み文字列
webUse	string / null	ウェブ使用
attribution	string / null	帰属
shareAlike	string / null	共有
purchaseUrl	string	購入URL
price	string	価格
notes	string	注釈
verified	boolean	検証済み
verifiedAt	string	検証日時
verifiedBy	string	検証者
source	string	ソース

属性名	属性型
licenseName	string
textState	string full string pointer missing string
textSha256	string SHA-256
rfn	string
mustOfficial	boolean
uses	string logo trademark video doujin string print appEmbed App

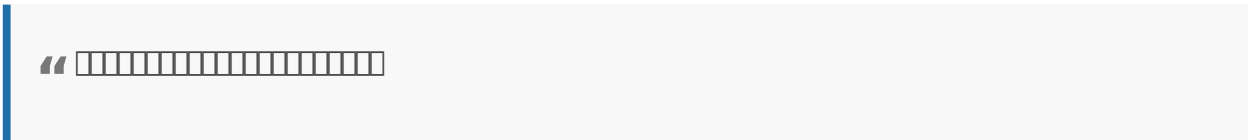
- null string
- verified boolean false string
- type commercial string
- string string
- string



```
{
  "normalizedName": "Xwwk",
  "type": "□□□□",
  "spdx": "0FL-1.1",
  "commercial": true,
  "modification": true,
  "distribution": true,
  "embedding": true,
  "webUse": true,
  "attribution": false,
  "shareAlike": false,
  "verified": true
}
```



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-   _____



<https://cn.windfonts.com/fonts-packages/{font}/>



```
{font}/
├─ {font}/
│   ├─ full/result.css      简体中文
│   ├─ zh/result.css        繁体中文
│   ├─ zh-common/result.css  简体中文
│   └─ en/result.css        英文
├─ license/
│   ├─ index.json           许可证
│   └─ original.txt         原始文件
└─ source/
    ├─ index.json           索引
    └─ ...                  其他文件
```



result.css @font-face unicode-range woff2



license/index.json

```
{
  "norm": "Xwwk",
  "kind": "license",
  "updated": "2026-10-04T21:07:15+08:00",
  "items": [
    {
      "role": "original",
      "primary": true,
      "file": "original.txt",
      "media": "text/plain; charset=utf-8",
      "bytes": 5171,
      "sha256": "...",
      "sourceUrl": "https://raw.githubusercontent.com/lxgw/LxgwWenKai/main/OFL.txt",
      "sourceName": "OFL.txt"
    }
  ]
}
```

属性	数据类型
items[].file	字符串 license/ 字符串
items[].primary	布尔值
items[].sha256	字符串 SHA-256
items[].sourceUrl	字符串

source/index.json

```
{
  "norm": "xwwk",
  "kind": "source",
  "items": [
    {
      "file": "LXGWWenKai-Regular.ttf",
      "url": "https://cn.windfonts.com/fonts-packages/xwwk/source/LXGWWenKai-Regular.ttf",
      "bytes": 25575676,

```

```

    "sha256": "...",
    "status": "□□□□"
  }
]
}
```

status wenfeng.org



-  norm 
-  404 
-  sha256   
- 



“ [16 boxes]
[5 boxes]



[8 boxes] · [24 boxes]



CSS unicode-range

[4 boxes] CSS [2 boxes] @font-face [2 boxes] unicode-range [16 boxes] [3 boxes]
result.css [2 boxes] unicode-range [24 boxes]
[16 boxes]

[4 boxes] Python [16 boxes] full [8 boxes]

```
import re, urllib.request

def covered(css_url):
    req = urllib.request.Request(css_url, headers={"User-Agent": "Mozilla/5.0 (coverage-check)"})
    css = urllib.request.urlopen(req, timeout=30).read().decode("utf-8")
    cps = set()
    for rng in re.findall(r"unicode-range:([^\;}]+)", css):
        for part in rng.split(","):
            part = part.strip().upper().removeprefix("U+")
            if "-" in part:
                a, b = part.split("-")
                cps.update(range(int(a, 16), int(b, 16) + 1))
            elif part:
                cps.add(int(part, 16))
    return cps
```

```
url = "https://cn.windfonts.com/fonts-packages/xwwk/Regular/full/result.css"
text = "□□□□□□□"
have = covered(url)
print("□□□", "".join(ch for ch in set(text) if ord(ch) not in have and not ch.isspace()))
```

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-  User-Agent  403 
-  full  zh-common 
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- CSS
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[illegible]

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wenfeng.org

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3. 

LICENSE ☐ ☐ ☐ ☐ ☐

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license@wenfeng.org

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WordPress ██████████

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