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1 // @ts-nocheck
2
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4
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24
25 // @filename: renderer.ts
26 // source: https://github.com/shikijs/shiki/blob/ca5a6c60a255fb390776ada849e01e1744a916fc/packages/shiki/src/renderer.ts
27 import { FontStyle } from './stackElementMetadata'
28 import { IThemedToken } from './themedTokenizer'
29
30 export interface HtmlRendererOptions {
31   langId?: string
32   fg?: string
33   bg?: string
34 }
35
36 export function renderToHtml(
37   lines: IThemedToken[][],
38   options: HtmlRendererOptions = {}
39 ) {
40   const bg = options.bg || '#fff'
41
42   let html = ''
43
44   html += `

```
${options.langId}</div>`
47 }
48 html += `>`
49
50 lines.forEach((l: IThemedToken[]) => {
51 html += `
```


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56     cssDeclarations.push('font-style: italic')
57   }
58   if (token.fontStyle & FontStyle.Bold) {
59     cssDeclarations.push('font-weight: bold')
60   }
61   if (token.fontStyle & FontStyle.Underline) {
62     cssDeclarations.push('text-decoration: underline')
63   }
64   html += `

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115 let _themes: IThemeRegistration[] = options.themes || []
116
117 if (options.langs?.length) {
118   _languages = options.langs.map(resolveLang)
119 }
120 if (options.theme) {
121   _themes.unshift(options.theme)
122 }
123 if (!_themes.length) {
124   _themes = ['nord']
125 }
126
127 return { _languages, _themes }
128 }
129
130 export async function getHighlighter(
131   options: HighlighterOptions
132 ): Promise<Highlighter> {
133   const { _languages, _themes } = resolveOptions(options)
134   const _resolver = new Resolver(getOnigasm(), 'onigasm')
135   const _registry = new Registry(_resolver)
136
137   if (options.paths?.themes) {
138     _registry.themesPath = options.paths.themes
139   }
140
141   if (options.paths?.languages) {
142     _resolver.languagesPath = options.paths.languages
143   }
144
145   const themes = await _registry.loadThemes(_themes)
146   const _defaultTheme = themes[0]
147   let _currentTheme: IShikiTheme | undefined
148   await _registry.loadLanguages(_languages)
149
150   /**
151    * Shiki was designed for VS Code, so CSS variables are not currently support
152    * See: https://github.com/shikijs/shiki/pull/212#issuecomment-906924986
153    *
154    * Instead, we work around this by using valid hex color codes as lookups in
155    * a
156    * final "repair" step which translates those codes to the correct CSS variab
157    * les.
158    */
159   const COLOR_REPLACEMENTS: Record<string, string> = {
160     '#000001': 'var(--shiki-color-text)',
161     '#000002': 'var(--shiki-color-background)',
162     '#000004': 'var(--shiki-token-constant)',
163     '#000005': 'var(--shiki-token-string)',
164     '#000006': 'var(--shiki-token-comment)',
165     '#000007': 'var(--shiki-token-keyword)',
166     '#000008': 'var(--shiki-token-parameter)',
167     '#000009': 'var(--shiki-token-function)',
168     '#000010': 'var(--shiki-token-string-expression)',
169     '#000011': 'var(--shiki-token-punctuation)',
170     '#000012': 'var(--shiki-token-link)',
171   }
172
173   function fixCssVariablesTheme(theme: IShikiTheme, colorMap: string[]) {

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172 theme.bg = COLOR_REPLACEMENTS[theme.bg] || theme.bg
173 theme.fg = COLOR_REPLACEMENTS[theme.fg] || theme.fg
174 colorMap.forEach((val, i) => {
175     colorMap[i] = COLOR_REPLACEMENTS[val] || val
176 })
177 }
178
179 function getTheme(theme?: IThemeRegistration) {
180     const _theme = theme ? _registry.getTheme(theme) : _defaultTheme
181     if (!_theme) {
182         throw Error(`No theme registration for ${theme}`)
183     }
184     if (!_currentTheme || _currentTheme.name !== _theme.name) {
185         _registry.setTheme(_theme)
186         _currentTheme = _theme
187     }
188     const _colorMap = _registry.getColorMap()
189     if (_theme.name === 'css-variables') {
190         fixCssVariablesTheme(_theme, _colorMap)
191     }
192     return { _theme, _colorMap }
193 }
194
195 function getGrammar(lang: string) {
196     const _grammar = _registry.getGrammar(lang)
197     if (!_grammar) {
198         throw Error(`No language registration for ${lang}`)
199     }
200     return { _grammar }
201 }
202
203 function codeToThemedTokens(
204     code: string,
205     lang = 'text',
206     theme?: StringLiteralUnion<Theme>,
207     options = { includeExplanation: true }
208 ) {
209     if (isPlainText(lang)) {
210         return [{ content: code }]
211     }
212     const { _grammar } = getGrammar(lang)
213     const { _theme, _colorMap } = getTheme(theme)
214     return tokenizeWithTheme(_theme, _colorMap, code, _grammar, options)
215 }
216
217 function codeToHtml(
218     code: string,
219     lang = 'text',
220     theme?: StringLiteralUnion<Theme>
221 ) {
222     const tokens = codeToThemedTokens(code, lang, theme, {
223         includeExplanation: false,
224     })
225     const { _theme } = getTheme(theme)
226     return renderToHtml(tokens, {
227         fg: _theme.fg,
228         bg: _theme.bg,
229     })
230 }
231

```

[illegible]

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