

~\Desktop\Quantum\case1.html

```

1 <!DOCTYPE html>
2
3 <html lang="en">
4 <head><meta charset="utf-8"/>
5 <meta content="width=device-width, initial-scale=1.0" name="viewport"/>
6 <title>case1</title><script src="https://cdnjs.cloudflare.com/ajax/libs/require.js/2.1.10/require.min.js"></script>
7 <style type="text/css">
8     pre { line-height: 125%; }
9     td.linenos .normal { color: inherit; background-color: transparent; padding-left: 5px; padding-right: 5px; }
10    span.linenos { color: inherit; background-color: transparent; padding-left: 5px; padding-right: 5px; }
11    td.linenos .special { color: #000000; background-color: #fffffc0; padding-left: 5px; padding-right: 5px; }
12    span.linenos.special { color: #000000; background-color: #fffffc0; padding-left: 5px; padding-right: 5px; }
13    .highlight .hl { background-color: var(--jp-cell-editor-active-background) }
14    .highlight { background: var(--jp-cell-editor-background); color: var(--jp-mirror-editor-variable-color) }
15    .highlight .c { color: var(--jp-mirror-editor-comment-color); font-style: italic } /* Comment */
16    .highlight .err { color: var(--jp-mirror-editor-error-color) } /* Error */
17    .highlight .k { color: var(--jp-mirror-editor-keyword-color); font-weight: bold } /* Keyword */
18    .highlight .o { color: var(--jp-mirror-editor-operator-color); font-weight: bold } /* Operator */
19    .highlight .p { color: var(--jp-mirror-editor-punctuation-color) } /* Punctuation */
20    .highlight .ch { color: var(--jp-mirror-editor-comment-color); font-style: italic } /* Comment.Hashbang */
21    .highlight .cm { color: var(--jp-mirror-editor-comment-color); font-style: italic } /* Comment.Multiline */
22    .highlight .cp { color: var(--jp-mirror-editor-comment-color); font-style: italic } /* Comment.Preproc */
23    .highlight .cpf { color: var(--jp-mirror-editor-comment-color); font-style: italic } /* Comment.PreprocFile */
24    .highlight .c1 { color: var(--jp-mirror-editor-comment-color); font-style: italic } /* Comment.Single */
25    .highlight .cs { color: var(--jp-mirror-editor-comment-color); font-style: italic } /* Comment.Special */
26    .highlight .kc { color: var(--jp-mirror-editor-keyword-color); font-weight: bold } /* Keyword.Constant */
27    .highlight .kd { color: var(--jp-mirror-editor-keyword-color); font-weight: bold } /* Keyword.Declaration */
28    .highlight .kn { color: var(--jp-mirror-editor-keyword-color); font-weight: bold } /* Keyword.Namespace */
29    .highlight .kp { color: var(--jp-mirror-editor-keyword-color); font-weight: bold } /* Keyword.Pseudo */
30    .highlight .kr { color: var(--jp-mirror-editor-keyword-color); font-weight: bold } /* Keyword.Reserved */
31    .highlight .kt { color: var(--jp-mirror-editor-keyword-color); font-weight: bold } /* Keyword.Type */
32    .highlight .m { color: var(--jp-mirror-editor-number-color) } /* Literal.Number */
33    .highlight .s { color: var(--jp-mirror-editor-string-color) } /* Literal.String */
34    .highlight .ow { color: var(--jp-mirror-editor-operator-color); font-weight: bold } /* Operator.Word */
35    .highlight .pm { color: var(--jp-mirror-editor-punctuation-color) } /* Punctuation.Marker */
36    .highlight .w { color: var(--jp-mirror-editor-variable-color) } /* Text.Whitespace */
37    .highlight .mb { color: var(--jp-mirror-editor-number-color) } /* Literal.Number.Bin */
38    .highlight .mf { color: var(--jp-mirror-editor-number-color) } /* Literal.Number.Float */
39    .highlight .mh { color: var(--jp-mirror-editor-number-color) } /* Literal.Number.Hex */
40    .highlight .mi { color: var(--jp-mirror-editor-number-color) } /* Literal.Number.Integer */
41    .highlight .mo { color: var(--jp-mirror-editor-number-color) } /* Literal.Number.Oct */
42    .highlight .sa { color: var(--jp-mirror-editor-string-color) } /* Literal.String.Affix */
43    .highlight .sb { color: var(--jp-mirror-editor-string-color) } /* Literal.String.Backtick */
44    .highlight .sc { color: var(--jp-mirror-editor-string-color) } /* Literal.String.Char */
45    .highlight .dl { color: var(--jp-mirror-editor-string-color) } /* Literal.String.Delimiter */
46    .highlight .sd { color: var(--jp-mirror-editor-string-color) } /* Literal.String.Doc */
47    .highlight .s2 { color: var(--jp-mirror-editor-string-color) } /* Literal.String.Double */
48    .highlight .se { color: var(--jp-mirror-editor-string-color) } /* Literal.String.Escape */
49    .highlight .sh { color: var(--jp-mirror-editor-string-color) } /* Literal.String.Heredoc */
50    .highlight .si { color: var(--jp-mirror-editor-string-color) } /* Literal.String.Interpol */
51    .highlight .sx { color: var(--jp-mirror-editor-string-color) } /* Literal.String.Other */
52    .highlight .sr { color: var(--jp-mirror-editor-string-color) } /* Literal.String.Regex */
53    .highlight .s1 { color: var(--jp-mirror-editor-string-color) } /* Literal.String.Single */
54    .highlight .ss { color: var(--jp-mirror-editor-string-color) } /* Literal.String.Symbol */
55    .highlight .il { color: var(--jp-mirror-editor-number-color) } /* Literal.Number.Integer.Long */
56    </style>
57 <style type="text/css">
58 -----
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61 | -----
62
63 /*
64 * Mozilla scrollbar styling
65 */
66
67 /* use standard opaque scrollbars for most nodes */
68 [data-jp-theme-scrollbars='true'] {
69     scrollbar-color: rgb(var(--jp-scrollbar-thumb-color))
70     var(--jp-scrollbar-background-color);
71 }
72
73 /* for code nodes, use a transparent style of scrollbar. These selectors

```

```
74  * will match lower in the tree, and so will override the above */
75  [data-jp-theme-scrollbars='true'] .CodeMirror-hscrollbar,
76  [data-jp-theme-scrollbars='true'] .CodeMirror-vscrollbar {
77    scrollbar-color: rgba(var(--jp-scrollbar-thumb-color), 0.5) transparent;
78  }
79
80 /* tiny scrollbar */
81
82 .jp-scrollbar-tiny {
83   scrollbar-color: rgba(var(--jp-scrollbar-thumb-color), 0.5) transparent;
84   scrollbar-width: thin;
85 }
86
87 /* tiny scrollbar */
88
89 .jp-scrollbar-tiny::-webkit-scrollbar,
90 .jp-scrollbar-tiny::-webkit-scrollbar-corner {
91   background-color: transparent;
92   height: 4px;
93   width: 4px;
94 }
95
96 .jp-scrollbar-tiny::-webkit-scrollbar-thumb {
97   background: rgba(var(--jp-scrollbar-thumb-color), 0.5);
98 }
99
100 .jp-scrollbar-tiny::-webkit-scrollbar-track:horizontal {
101   border-left: 0 solid transparent;
102   border-right: 0 solid transparent;
103 }
104
105 .jp-scrollbar-tiny::-webkit-scrollbar-track:vertical {
106   border-top: 0 solid transparent;
107   border-bottom: 0 solid transparent;
108 }
109
110 /*
111  * Lumino
112 */
113
114 .lm-ScrollBar[data-orientation='horizontal'] {
115   min-height: 16px;
116   max-height: 16px;
117   min-width: 45px;
118   border-top: 1px solid #a0a0a0;
119 }
120
121 .lm-ScrollBar[data-orientation='vertical'] {
122   min-width: 16px;
123   max-width: 16px;
124   min-height: 45px;
125   border-left: 1px solid #a0a0a0;
126 }
127
128 .lm-ScrollBar-button {
129   background-color: #f0f0f0;
130   background-position: center center;
131   min-height: 15px;
132   max-height: 15px;
133   min-width: 15px;
134   max-width: 15px;
135 }
136
137 .lm-ScrollBar-button:hover {
138   background-color: #dadada;
139 }
140
141 .lm-ScrollBar-button.lm-mod-active {
142   background-color: #cdcdcd;
143 }
144
145 .lm-ScrollBar-track {
146   background: #f0f0f0;
147 }
148
149 .lm-ScrollBar-thumb {
```

```
150    background: #cdcdcd;
151 }
152
153 .lm-ScrollBar-thumb:hover {
154   background: #bababa;
155 }
156
157 .lm-ScrollBar-thumb.lm-mod-active {
158   background: #a0a0a0;
159 }
160
161 .lm-ScrollBar[data-orientation='horizontal'] .lm-ScrollBar-thumb {
162   height: 100%;
163   min-width: 15px;
164   border-left: 1px solid #a0a0a0;
165   border-right: 1px solid #a0a0a0;
166 }
167
168 .lm-ScrollBar[data-orientation='vertical'] .lm-ScrollBar-thumb {
169   width: 100%;
170   min-height: 15px;
171   border-top: 1px solid #a0a0a0;
172   border-bottom: 1px solid #a0a0a0;
173 }
174
175 .lm-ScrollBar[data-orientation='horizontal']
176   .lm-ScrollBar-button[data-action='decrement'] {
177     background-image: var(--jp-icon-caret-left);
178     background-size: 17px;
179   }
180
181 .lm-ScrollBar[data-orientation='horizontal']
182   .lm-ScrollBar-button[data-action='increment'] {
183     background-image: var(--jp-icon-caret-right);
184     background-size: 17px;
185   }
186
187 .lm-ScrollBar[data-orientation='vertical']
188   .lm-ScrollBar-button[data-action='decrement'] {
189     background-image: var(--jp-icon-caret-up);
190     background-size: 17px;
191   }
192
193 .lm-ScrollBar[data-orientation='vertical']
194   .lm-ScrollBar-button[data-action='increment'] {
195     background-image: var(--jp-icon-caret-down);
196     background-size: 17px;
197   }
198
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203
204 /-----
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211 |-----*/
212
213 .lm-Widget {
214   box-sizing: border-box;
215   position: relative;
216   overflow: hidden;
217 }
218
219 .lm-Widget.lm-mod-hidden {
220   display: none !important;
221 }
222
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```

```
226 */
227
228 .lm-AccordionPanel[data-orientation='horizontal'] > .lm-AccordionPanel-title {
229   /* Title is rotated for horizontal accordion panel using CSS */
230   display: block;
231   transform-origin: top left;
232   transform: rotate(-90deg) translate(-100%);
233 }
234
235 /*
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239
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247 |-----*/
248
249 .lm-CommandPalette {
250   display: flex;
251   flex-direction: column;
252   -webkit-user-select: none;
253   -moz-user-select: none;
254   -ms-user-select: none;
255   user-select: none;
256 }
257
258 .lm-CommandPalette-search {
259   flex: 0 0 auto;
260 }
261
262 .lm-CommandPalette-content {
263   flex: 1 1 auto;
264   margin: 0;
265   padding: 0;
266   min-height: 0;
267   overflow: auto;
268   list-style-type: none;
269 }
270
271 .lm-CommandPalette-header {
272   overflow: hidden;
273   white-space: nowrap;
274   text-overflow: ellipsis;
275 }
276
277 .lm-CommandPalette-item {
278   display: flex;
279   flex-direction: row;
280 }
281
282 .lm-CommandPalette-itemIcon {
283   flex: 0 0 auto;
284 }
285
286 .lm-CommandPalette-itemContent {
287   flex: 1 1 auto;
288   overflow: hidden;
289 }
290
291 .lm-CommandPalette-itemShortcut {
292   flex: 0 0 auto;
293 }
294
295 .lm-CommandPalette-itemLabel {
296   overflow: hidden;
297   white-space: nowrap;
298   text-overflow: ellipsis;
299 }
300
301 .lm-close-icon {
```

```
302 border: 1px solid transparent;
303 background-color: transparent;
304 position: absolute;
305 z-index: 1;
306 right: 3%;
307 top: 0;
308 bottom: 0;
309 margin: auto;
310 padding: 7px 0;
311 display: none;
312 vertical-align: middle;
313 outline: 0;
314 cursor: pointer;
315 }
316 .lm-close-icon:after {
317 content: 'X';
318 display: block;
319 width: 15px;
320 height: 15px;
321 text-align: center;
322 color: #000;
323 font-weight: normal;
324 font-size: 12px;
325 cursor: pointer;
326 }
327
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332
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340 |-----*/
341
342 .lm-DockPanel {
343 z-index: 0;
344 }
345
346 .lm-DockPanel-widget {
347 z-index: 0;
348 }
349
350 .lm-DockPanel-tabBar {
351 z-index: 1;
352 }
353
354 .lm-DockPanel-handle {
355 z-index: 2;
356 }
357
358 .lm-DockPanel-handle.lm-mod-hidden {
359 display: none !important;
360 }
361
362 .lm-DockPanel-handle:after {
363 position: absolute;
364 top: 0;
365 left: 0;
366 width: 100%;
367 height: 100%;
368 content: '';
369 }
370
371 .lm-DockPanel-handle[data-orientation='horizontal'] {
372 cursor: ew-resize;
373 }
374
375 .lm-DockPanel-handle[data-orientation='vertical'] {
376 cursor: ns-resize;
377 }
```

```
378
379 .lm-DockPanel-handle[data-orientation='horizontal']:after {
380   left: 50%;
381   min-width: 8px;
382   transform: translateX(-50%);
383 }
384
385 .lm-DockPanel-handle[data-orientation='vertical']:after {
386   top: 50%;
387   min-height: 8px;
388   transform: translateY(-50%);
389 }
390
391 .lm-DockPanel-overlay {
392   z-index: 3;
393   box-sizing: border-box;
394   pointer-events: none;
395 }
396
397 .lm-DockPanel-overlay.lm-mod-hidden {
398   display: none !important;
399 }
400
401 /*
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405
406 /**
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413  */
414
415 .lm-Menu {
416   z-index: 10000;
417   position: absolute;
418   white-space: nowrap;
419   overflow-x: hidden;
420   overflow-y: auto;
421   outline: none;
422   -webkit-user-select: none;
423   -moz-user-select: none;
424   -ms-user-select: none;
425   user-select: none;
426 }
427
428 .lm-Menu-content {
429   margin: 0;
430   padding: 0;
431   display: table;
432   list-style-type: none;
433 }
434
435 .lm-Menu-item {
436   display: table-row;
437 }
438
439 .lm-Menu-item.lm-mod-hidden,
440 .lm-Menu-item.lm-mod-collapsed {
441   display: none !important;
442 }
443
444 .lm-Menu-itemIcon,
445 .lm-Menu-itemSubmenuIcon {
446   display: table-cell;
447   text-align: center;
448 }
449
450 .lm-Menu-itemLabel {
451   display: table-cell;
452   text-align: left;
453 }
```

```
454
455 .lm-Menu-itemShortcut {
456   display: table-cell;
457   text-align: right;
458 }
459
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472 |-----
473
474 .lm-MenuBar {
475   outline: none;
476   -webkit-user-select: none;
477   -moz-user-select: none;
478   -ms-user-select: none;
479   user-select: none;
480 }
481
482 .lm-MenuBar-content {
483   margin: 0;
484   padding: 0;
485   display: flex;
486   flex-direction: row;
487   list-style-type: none;
488 }
489
490 .lm-MenuBar-item {
491   box-sizing: border-box;
492 }
493
494 .lm-MenuBar-itemIcon,
495 .lm-MenuBar-itemLabel {
496   display: inline-block;
497 }
498
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511 |-----
512
513 .lm-ScrollBar {
514   display: flex;
515   -webkit-user-select: none;
516   -moz-user-select: none;
517   -ms-user-select: none;
518   user-select: none;
519 }
520
521 .lm-ScrollBar[data-orientation='horizontal'] {
522   flex-direction: row;
523 }
524
525 .lm-ScrollBar[data-orientation='vertical'] {
526   flex-direction: column;
527 }
528
529 .lm-ScrollBar-button {
```

```
530  box-sizing: border-box;
531  flex: 0 0 auto;
532 }
533
534 .lm-ScrollBar-track {
535  box-sizing: border-box;
536  position: relative;
537  overflow: hidden;
538  flex: 1 1 auto;
539 }
540
541 .lm-ScrollBar-thumb {
542  box-sizing: border-box;
543  position: absolute;
544 }
545
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550
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558 |-----*/
559
560 .lm-SplitPanel-child {
561  z-index: 0;
562 }
563
564 .lm-SplitPanel-handle {
565  z-index: 1;
566 }
567
568 .lm-SplitPanel-handle.lm-mod-hidden {
569  display: none !important;
570 }
571
572 .lm-SplitPanel-handle:after {
573  position: absolute;
574  top: 0;
575  left: 0;
576  width: 100%;
577  height: 100%;
578  content: '';
579 }
580
581 .lm-SplitPanel[data-orientation='horizontal'] > .lm-SplitPanel-handle {
582  cursor: ew-resize;
583 }
584
585 .lm-SplitPanel[data-orientation='vertical'] > .lm-SplitPanel-handle {
586  cursor: ns-resize;
587 }
588
589 .lm-SplitPanel[data-orientation='horizontal'] > .lm-SplitPanel-handle:after {
590  left: 50%;
591  min-width: 8px;
592  transform: translateX(-50%);
593 }
594
595 .lm-SplitPanel[data-orientation='vertical'] > .lm-SplitPanel-handle:after {
596  top: 50%;
597  min-height: 8px;
598  transform: translateY(-50%);
599 }
600
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605
```

```
606  *-----  
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613  |-----*/  
614  
615 .lm-TabBar {  
616   display: flex;  
617   -webkit-user-select: none;  
618   -moz-user-select: none;  
619   -ms-user-select: none;  
620   user-select: none;  
621 }  
622  
623 .lm-TabBar[data-orientation='horizontal'] {  
624   flex-direction: row;  
625   align-items: flex-end;  
626 }  
627  
628 .lm-TabBar[data-orientation='vertical'] {  
629   flex-direction: column;  
630   align-items: flex-end;  
631 }  
632  
633 .lm-TabBar-content {  
634   margin: 0;  
635   padding: 0;  
636   display: flex;  
637   flex: 1 1 auto;  
638   list-style-type: none;  
639 }  
640  
641 .lm-TabBar[data-orientation='horizontal'] > .lm-TabBar-content {  
642   flex-direction: row;  
643 }  
644  
645 .lm-TabBar[data-orientation='vertical'] > .lm-TabBar-content {  
646   flex-direction: column;  
647 }  
648  
649 .lm-TabBar-tab {  
650   display: flex;  
651   flex-direction: row;  
652   box-sizing: border-box;  
653   overflow: hidden;  
654   touch-action: none; /* Disable native Drag/Drop */  
655 }  
656  
657 .lm-TabBar-tabIcon,  
658 .lm-TabBar-tabCloseIcon {  
659   flex: 0 0 auto;  
660 }  
661  
662 .lm-TabBar-tabLabel {  
663   flex: 1 1 auto;  
664   overflow: hidden;  
665   white-space: nowrap;  
666 }  
667  
668 .lm-TabBar-tabInput {  
669   user-select: all;  
670   width: 100%;  
671   box-sizing: border-box;  
672 }  
673  
674 .lm-TabBar-tab.lm-mod-hidden {  
675   display: none !important;  
676 }  
677  
678 .lm-TabBar-addButton.lm-mod-hidden {  
679   display: none !important;  
680 }  
681 }
```

```
682 .lm-TabBar.lm-mod-dragging .lm-TabBar-tab {
683   position: relative;
684 }
685
686 .lm-TabBar.lm-mod-dragging[data-orientation='horizontal'] .lm-TabBar-tab {
687   left: 0;
688   transition: left 150ms ease;
689 }
690
691 .lm-TabBar.lm-mod-dragging[data-orientation='vertical'] .lm-TabBar-tab {
692   top: 0;
693   transition: top 150ms ease;
694 }
695
696 .lm-TabBar.lm-mod-dragging .lm-TabBar-tab.lm-mod-dragging {
697   transition: none;
698 }
699
700 .lm-TabBar-tabLabel .lm-TabBar-tabInput {
701   user-select: all;
702   width: 100%;
703   box-sizing: border-box;
704   background: inherit;
705 }
706
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719 |-----*/
720
721 .lm-TabPanel-tabBar {
722   z-index: 1;
723 }
724
725 .lm-TabPanel-stackedPanel {
726   z-index: 0;
727 }
728
729 /*
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737 |
738 | Distributed under the terms of the BSD 3-Clause License.
739 |
740 | The full license is in the file LICENSE, distributed with this software.
741 |-----*/
742
743 /*
744 | Copyright (c) Jupyter Development Team.
745 | Distributed under the terms of the Modified BSD License.
746 |-----*/
747
748 .jp-Collapse {
749   display: flex;
750   flex-direction: column;
751   align-items: stretch;
752 }
753
754 .jp-Collapse-header {
755   padding: 1px 12px;
756   background-color: var(--jp-layout-color1);
757   border-bottom: solid var(--jp-border-width) var(--jp-border-color2);
```













The image contains a single, extremely long XML document. It defines numerous icons using the JP-ICON framework, each with unique identifiers, names, and detailed descriptions. The icons include various shapes like circles, squares, and arrows in different colors (e.g., red, green, blue, yellow) and sizes. Some icons feature text or mathematical symbols. The XML uses nested elements to define icon states (e.g., 'normal', 'active', 'disabled') and includes attributes for styling like 'background-image' and 'color'. The entire document spans from line 889 to line 999.

```
910     background-image: var(--jp-icon-add-below);  
911 }  
912  
913 .jp-AddIcon {  
914     background-image: var(--jp-icon-add);  
915 }  
916  
917 .jp-BellIcon {  
918     background-image: var(--jp-icon-bell);  
919 }  
920  
921 .jp-BugDotIcon {  
922     background-image: var(--jp-icon-bug-dot);  
923 }  
924  
925 .jp-BugIcon {  
926     background-image: var(--jp-icon-bug);  
927 }  
928  
929 .jp-BuildIcon {  
930     background-image: var(--jp-icon-build);  
931 }  
932  
933 .jp-CaretDownEmptyIcon {  
934     background-image: var(--jp-icon-caret-down-empty);  
935 }  
936  
937 .jp-CaretDownEmptyThinIcon {  
938     background-image: var(--jp-icon-caret-down-empty-thin);  
939 }  
940  
941 .jp-CaretDownIcon {  
942     background-image: var(--jp-icon-caret-down);  
943 }  
944  
945 .jp-CaretLeftIcon {  
946     background-image: var(--jp-icon-caret-left);  
947 }  
948  
949 .jp-CaretRightIcon {  
950     background-image: var(--jp-icon-caret-right);  
951 }  
952  
953 .jp-CaretUpEmptyThinIcon {  
954     background-image: var(--jp-icon-caret-up-empty-thin);  
955 }  
956  
957 .jp-CaretUpIcon {  
958     background-image: var(--jp-icon-caret-up);  
959 }  
960  
961 .jp-CaseSensitiveIcon {  
962     background-image: var(--jp-icon-case-sensitive);  
963 }  
964  
965 .jp-CheckIcon {  
966     background-image: var(--jp-icon-check);  
967 }  
968  
969 .jp-CircleEmptyIcon {  
970     background-image: var(--jp-icon-circle-empty);  
971 }  
972  
973 .jp-CircleIcon {  
974     background-image: var(--jp-icon-circle);  
975 }  
976  
977 .jp-ClearIcon {  
978     background-image: var(--jp-icon-clear);  
979 }  
980  
981 .jp-CloseIcon {  
982     background-image: var(--jp-icon-close);  
983 }  
984  
985 .jp-CodeCheckIcon {
```

```
986     background-image: var(--jp-icon-code-check);  
987 }  
988  
989 .jp-CodeIcon {  
990     background-image: var(--jp-icon-code);  
991 }  
992  
993 .jp-CollapseAllIcon {  
994     background-image: var(--jp-icon-collapse-all);  
995 }  
996  
997 .jp-ConsoleIcon {  
998     background-image: var(--jp-icon-console);  
999 }  
1000  
1001 .jp-CopyIcon {  
1002     background-image: var(--jp-icon-copy);  
1003 }  
1004  
1005 .jp-CopyrightIcon {  
1006     background-image: var(--jp-icon-copyright);  
1007 }  
1008  
1009 .jp-CutIcon {  
1010     background-image: var(--jp-icon-cut);  
1011 }  
1012  
1013 .jp-DeleteIcon {  
1014     background-image: var(--jp-icon-delete);  
1015 }  
1016  
1017 .jp-DownloadIcon {  
1018     background-image: var(--jp-icon-download);  
1019 }  
1020  
1021 .jp-DuplicateIcon {  
1022     background-image: var(--jp-icon-duplicate);  
1023 }  
1024  
1025 .jp>EditIcon {  
1026     background-image: var(--jp-icon-edit);  
1027 }  
1028  
1029 .jp-EllipsesIcon {  
1030     background-image: var(--jp-icon-ellipses);  
1031 }  
1032  
1033 .jp>ErrorIcon {  
1034     background-image: var(--jp-icon-error);  
1035 }  
1036  
1037 .jp-ExpandAllIcon {  
1038     background-image: var(--jp-icon-expand-all);  
1039 }  
1040  
1041 .jp-ExtensionIcon {  
1042     background-image: var(--jp-icon-extension);  
1043 }  
1044  
1045 .jp-FastForwardIcon {  
1046     background-image: var(--jp-icon-fast-forward);  
1047 }  
1048  
1049 .jp-FileIcon {  
1050     background-image: var(--jp-icon-file);  
1051 }  
1052  
1053 .jp-FileUploadIcon {  
1054     background-image: var(--jp-icon-file-upload);  
1055 }  
1056  
1057 .jp-FilterDotIcon {  
1058     background-image: var(--jp-icon-filter-dot);  
1059 }  
1060  
1061 .jp-FilterIcon {
```

```
1062     background-image: var(--jp-icon-filter);  
1063 }  
1064  
1065 .jp-FilterListItemIcon {  
1066     background-image: var(--jp-icon-filter-list);  
1067 }  
1068  
1069 .jp-FolderFavoriteIcon {  
1070     background-image: var(--jp-icon-folder-favorite);  
1071 }  
1072  
1073 .jp-FolderIcon {  
1074     background-image: var(--jp-icon-folder);  
1075 }  
1076  
1077 .jp-HomeIcon {  
1078     background-image: var(--jp-icon-home);  
1079 }  
1080  
1081 .jp-HTML5Icon {  
1082     background-image: var(--jp-icon-html5);  
1083 }  
1084  
1085 .jp-ImageIcon {  
1086     background-image: var(--jp-icon-image);  
1087 }  
1088  
1089 .jp-InfoIcon {  
1090     background-image: var(--jp-icon-info);  
1091 }  
1092  
1093 .jp-InspectorIcon {  
1094     background-image: var(--jp-icon-inspector);  
1095 }  
1096  
1097 .jp-JsonIcon {  
1098     background-image: var(--jp-icon-json);  
1099 }  
1100  
1101 .jp-JuliaIcon {  
1102     background-image: var(--jp-icon-julia);  
1103 }  
1104  
1105 .jp-JupyterFaviconIcon {  
1106     background-image: var(--jp-icon-jupyter-favicon);  
1107 }  
1108  
1109 .jp-JupyterIcon {  
1110     background-image: var(--jp-icon-jupyter);  
1111 }  
1112  
1113 .jp-JupyterlabWordmarkIcon {  
1114     background-image: var(--jp-icon-jupyterlab-wordmark);  
1115 }  
1116  
1117 .jp-KernelIcon {  
1118     background-image: var(--jp-icon-kernel);  
1119 }  
1120  
1121 .jp-KeyboardIcon {  
1122     background-image: var(--jp-icon-keyboard);  
1123 }  
1124  
1125 .jp-LaunchIcon {  
1126     background-image: var(--jp-icon-launch);  
1127 }  
1128  
1129 .jp-LauncherIcon {  
1130     background-image: var(--jp-icon-launcher);  
1131 }  
1132  
1133 .jp-LineFormIcon {  
1134     background-image: var(--jp-icon-line-form);  
1135 }  
1136  
1137 .jp-LinkIcon {
```

```
1138   background-image: var(--jp-icon-link);
1139 }
1140
1141 .jp-ListIcon {
1142   background-image: var(--jp-icon-list);
1143 }
1144
1145 .jp-MarkdownIcon {
1146   background-image: var(--jp-icon-markdown);
1147 }
1148
1149 .jp-MoveDownIcon {
1150   background-image: var(--jp-icon-move-down);
1151 }
1152
1153 .jp-MoveUpIcon {
1154   background-image: var(--jp-icon-move-up);
1155 }
1156
1157 .jp-NewFolderIcon {
1158   background-image: var(--jp-icon-new-folder);
1159 }
1160
1161 .jp-NotTrustedIcon {
1162   background-image: var(--jp-icon-not-trusted);
1163 }
1164
1165 .jp-NotebookIcon {
1166   background-image: var(--jp-icon-notebook);
1167 }
1168
1169 .jp-NumberingIcon {
1170   background-image: var(--jp-icon-numbering);
1171 }
1172
1173 .jp-OfflineBoltIcon {
1174   background-image: var(--jp-icon-offline-bolt);
1175 }
1176
1177 .jp-PaletteIcon {
1178   background-image: var(--jp-icon-palette);
1179 }
1180
1181 .jp-PasteIcon {
1182   background-image: var(--jp-icon-paste);
1183 }
1184
1185 .jp-PdfIcon {
1186   background-image: var(--jp-icon-pdf);
1187 }
1188
1189 .jp-PythonIcon {
1190   background-image: var(--jp-icon-python);
1191 }
1192
1193 .jp-RKernelIcon {
1194   background-image: var(--jp-icon-r-kernel);
1195 }
1196
1197 .jp-ReactIcon {
1198   background-image: var(--jp-icon-react);
1199 }
1200
1201 .jp-RedoIcon {
1202   background-image: var(--jp-icon-redo);
1203 }
1204
1205 .jp-RefreshIcon {
1206   background-image: var(--jp-icon-refresh);
1207 }
1208
1209 .jp-RegexIcon {
1210   background-image: var(--jp-icon-regex);
1211 }
1212
1213 .jp-RunIcon {
```

```
1214     background-image: var(--jp-icon-run);  
1215 }  
1216  
1217 .jp-RunningIcon {  
1218     background-image: var(--jp-icon-running);  
1219 }  
1220  
1221 .jp-SaveIcon {  
1222     background-image: var(--jp-icon-save);  
1223 }  
1224  
1225 .jp-SearchIcon {  
1226     background-image: var(--jp-icon-search);  
1227 }  
1228  
1229 .jp-SettingsIcon {  
1230     background-image: var(--jp-icon-settings);  
1231 }  
1232  
1233 .jp-ShareIcon {  
1234     background-image: var(--jp-icon-share);  
1235 }  
1236  
1237 .jp-SpreadsheetIcon {  
1238     background-image: var(--jp-icon-spreadsheet);  
1239 }  
1240  
1241 .jp-StopIcon {  
1242     background-image: var(--jp-icon-stop);  
1243 }  
1244  
1245 .jp-TabIcon {  
1246     background-image: var(--jp-icon-tab);  
1247 }  
1248  
1249 .jp-TableRowsIcon {  
1250     background-image: var(--jp-icon-table-rows);  
1251 }  
1252  
1253 .jp-TagIcon {  
1254     background-image: var(--jp-icon-tag);  
1255 }  
1256  
1257 .jp-TerminalIcon {  
1258     background-image: var(--jp-icon-terminal);  
1259 }  
1260  
1261 .jp-TextEditorIcon {  
1262     background-image: var(--jp-icon-text-editor);  
1263 }  
1264  
1265 .jp-TocIcon {  
1266     background-image: var(--jp-icon-toc);  
1267 }  
1268  
1269 .jp-TreeViewIcon {  
1270     background-image: var(--jp-icon-tree-view);  
1271 }  
1272  
1273 .jp-TrustedIcon {  
1274     background-image: var(--jp-icon-trusted);  
1275 }  
1276  
1277 .jp-UndoIcon {  
1278     background-image: var(--jp-icon-undo);  
1279 }  
1280  
1281 .jp-UserIcon {  
1282     background-image: var(--jp-icon-user);  
1283 }  
1284  
1285 .jp-UsersIcon {  
1286     background-image: var(--jp-icon-users);  
1287 }  
1288  
1289 .jp-VegaIcon {
```

```
1290     background-image: var(--jp-icon-vega);
1291 }
1292
1293 .jp-WordIcon {
1294     background-image: var(--jp-icon-word);
1295 }
1296
1297 .jp-YamlIcon {
1298     background-image: var(--jp-icon-yaml);
1299 }
1300
1301 /*-----
1302 | Copyright (c) Jupyter Development Team.
1303 | Distributed under the terms of the Modified BSD License.
1304 |-----*/
1305
1306 /**
1307 * (DEPRECATED) Support for consuming icons as CSS background images
1308 */
1309
1310 .jp-Icon,
1311 .jp-MaterialIcon {
1312     background-position: center;
1313     background-repeat: no-repeat;
1314     background-size: 16px;
1315     min-width: 16px;
1316     min-height: 16px;
1317 }
1318
1319 .jp-Icon-cover {
1320     background-position: center;
1321     background-repeat: no-repeat;
1322     background-size: cover;
1323 }
1324
1325 /**
1326 * (DEPRECATED) Support for specific CSS icon sizes
1327 */
1328
1329 .jp-Icon-16 {
1330     background-size: 16px;
1331     min-width: 16px;
1332     min-height: 16px;
1333 }
1334
1335 .jp-Icon-18 {
1336     background-size: 18px;
1337     min-width: 18px;
1338     min-height: 18px;
1339 }
1340
1341 .jp-Icon-20 {
1342     background-size: 20px;
1343     min-width: 20px;
1344     min-height: 20px;
1345 }
1346
1347 /*-----
1348 | Copyright (c) Jupyter Development Team.
1349 | Distributed under the terms of the Modified BSD License.
1350 |-----*/
1351
1352 .lm-TabBar .lm-TabBar-addButton {
1353     align-items: center;
1354     display: flex;
1355     padding: 4px;
1356     padding-bottom: 5px;
1357     margin-right: 1px;
1358     background-color: var(--jp-layout-color2);
1359 }
1360
1361 .lm-TabBar .lm-TabBar-addButton:hover {
1362     background-color: var(--jp-layout-color1);
1363 }
1364
1365 .lm-DockPanel-tabBar .lm-TabBar-tab {
```

```
1366   width: var(--jp-private-horizontal-tab-width);  
1367 }  
1368  
1369 .lm-DockPanel-tabBar .lm-TabBar-content {  
1370   flex: unset;  
1371 }  
1372  
1373 .lm-DockPanel-tabBar[data-orientation='horizontal'] {  
1374   flex: 1 1 auto;  
1375 }  
1376  
1377 /*-----  
1378 | Copyright (c) Jupyter Development Team.  
1379 | Distributed under the terms of the Modified BSD License.  
1380 |-----*/  
1381  
1382 /**  
1383 * Support for icons as inline SVG HTMLElements  
1384 */  
1385  
1386 /* recolor the primary elements of an icon */  
1387 .jp-icon0[fill] {  
1388   fill: var(--jp-inverse-layout-color0);  
1389 }  
1390  
1391 .jp-icon1[fill] {  
1392   fill: var(--jp-inverse-layout-color1);  
1393 }  
1394  
1395 .jp-icon2[fill] {  
1396   fill: var(--jp-inverse-layout-color2);  
1397 }  
1398  
1399 .jp-icon3[fill] {  
1400   fill: var(--jp-inverse-layout-color3);  
1401 }  
1402  
1403 .jp-icon4[fill] {  
1404   fill: var(--jp-inverse-layout-color4);  
1405 }  
1406  
1407 .jp-icon0[stroke] {  
1408   stroke: var(--jp-inverse-layout-color0);  
1409 }  
1410  
1411 .jp-icon1[stroke] {  
1412   stroke: var(--jp-inverse-layout-color1);  
1413 }  
1414  
1415 .jp-icon2[stroke] {  
1416   stroke: var(--jp-inverse-layout-color2);  
1417 }  
1418  
1419 .jp-icon3[stroke] {  
1420   stroke: var(--jp-inverse-layout-color3);  
1421 }  
1422  
1423 .jp-icon4[stroke] {  
1424   stroke: var(--jp-inverse-layout-color4);  
1425 }  
1426  
1427 /* recolor the accent elements of an icon */  
1428 .jp-icon-accent0[fill] {  
1429   fill: var(--jp-layout-color0);  
1430 }  
1431  
1432 .jp-icon-accent1[fill] {  
1433   fill: var(--jp-layout-color1);  
1434 }  
1435  
1436 .jp-icon-accent2[fill] {  
1437   fill: var(--jp-layout-color2);  
1438 }  
1439  
1440 .jp-icon-accent3[fill] {  
1441   fill: var(--jp-layout-color3);  
1442 }
```

```
1442 }
1443
1444 .jp-icon-accent4[fill] {
1445   fill: var(--jp-layout-color4);
1446 }
1447
1448 .jp-icon-accent0[stroke] {
1449   stroke: var(--jp-layout-color0);
1450 }
1451
1452 .jp-icon-accent1[stroke] {
1453   stroke: var(--jp-layout-color1);
1454 }
1455
1456 .jp-icon-accent2[stroke] {
1457   stroke: var(--jp-layout-color2);
1458 }
1459
1460 .jp-icon-accent3[stroke] {
1461   stroke: var(--jp-layout-color3);
1462 }
1463
1464 .jp-icon-accent4[stroke] {
1465   stroke: var(--jp-layout-color4);
1466 }
1467
1468 /* set the color of an icon to transparent */
1469 .jp-icon-none[fill] {
1470   fill: none;
1471 }
1472
1473 .jp-icon-none[stroke] {
1474   stroke: none;
1475 }
1476
1477 /* brand icon colors. Same for light and dark */
1478 .jp-icon-brand0[fill] {
1479   fill: var(--jp-brand-color0);
1480 }
1481
1482 .jp-icon-brand1[fill] {
1483   fill: var(--jp-brand-color1);
1484 }
1485
1486 .jp-icon-brand2[fill] {
1487   fill: var(--jp-brand-color2);
1488 }
1489
1490 .jp-icon-brand3[fill] {
1491   fill: var(--jp-brand-color3);
1492 }
1493
1494 .jp-icon-brand4[fill] {
1495   fill: var(--jp-brand-color4);
1496 }
1497
1498 .jp-icon-brand0[stroke] {
1499   stroke: var(--jp-brand-color0);
1500 }
1501
1502 .jp-icon-brand1[stroke] {
1503   stroke: var(--jp-brand-color1);
1504 }
1505
1506 .jp-icon-brand2[stroke] {
1507   stroke: var(--jp-brand-color2);
1508 }
1509
1510 .jp-icon-brand3[stroke] {
1511   stroke: var(--jp-brand-color3);
1512 }
1513
1514 .jp-icon-brand4[stroke] {
1515   stroke: var(--jp-brand-color4);
1516 }
1517
```

```
1518 /* warn icon colors. Same for light and dark */
1519 .jp-icon-warn0[fill] {
1520   fill: var(--jp-warn-color0);
1521 }
1522
1523 .jp-icon-warn1[fill] {
1524   fill: var(--jp-warn-color1);
1525 }
1526
1527 .jp-icon-warn2[fill] {
1528   fill: var(--jp-warn-color2);
1529 }
1530
1531 .jp-icon-warn3[fill] {
1532   fill: var(--jp-warn-color3);
1533 }
1534
1535 .jp-icon-warn0[stroke] {
1536   stroke: var(--jp-warn-color0);
1537 }
1538
1539 .jp-icon-warn1[stroke] {
1540   stroke: var(--jp-warn-color1);
1541 }
1542
1543 .jp-icon-warn2[stroke] {
1544   stroke: var(--jp-warn-color2);
1545 }
1546
1547 .jp-icon-warn3[stroke] {
1548   stroke: var(--jp-warn-color3);
1549 }
1550
1551 /* icon colors that contrast well with each other and most backgrounds */
1552 .jp-icon-contrast0[fill] {
1553   fill: var(--jp-icon-contrast-color0);
1554 }
1555
1556 .jp-icon-contrast1[fill] {
1557   fill: var(--jp-icon-contrast-color1);
1558 }
1559
1560 .jp-icon-contrast2[fill] {
1561   fill: var(--jp-icon-contrast-color2);
1562 }
1563
1564 .jp-icon-contrast3[fill] {
1565   fill: var(--jp-icon-contrast-color3);
1566 }
1567
1568 .jp-icon-contrast0[stroke] {
1569   stroke: var(--jp-icon-contrast-color0);
1570 }
1571
1572 .jp-icon-contrast1[stroke] {
1573   stroke: var(--jp-icon-contrast-color1);
1574 }
1575
1576 .jp-icon-contrast2[stroke] {
1577   stroke: var(--jp-icon-contrast-color2);
1578 }
1579
1580 .jp-icon-contrast3[stroke] {
1581   stroke: var(--jp-icon-contrast-color3);
1582 }
1583
1584 .jp-icon-dot[fill] {
1585   fill: var(--jp-warn-color0);
1586 }
1587
1588 .jp-jupyter-icon-color[fill] {
1589   fill: var(--jp-jupyter-icon-color, var(--jp-warn-color0));
1590 }
1591
1592 .jp-notebook-icon-color[fill] {
1593   fill: var(--jp-notebook-icon-color, var(--jp-warn-color0));
```

```
1594 }
1595
1596 .jp-json-icon-color[fill] {
1597   fill: var(--jp-json-icon-color, var(--jp-warn-color1));
1598 }
1599
1600 .jp-console-icon-color[fill] {
1601   fill: var(--jp-console-icon-color, white);
1602 }
1603
1604 .jp-console-icon-background-color[fill] {
1605   fill: var(--jp-console-icon-background-color, var(--jp-brand-color1));
1606 }
1607
1608 .jp-terminal-icon-color[fill] {
1609   fill: var(--jp-terminal-icon-color, var(--jp-layout-color2));
1610 }
1611
1612 .jp-terminal-icon-background-color[fill] {
1613   fill: var(
1614     --jp-terminal-icon-background-color,
1615     var(--jp-inverse-layout-color2)
1616   );
1617 }
1618
1619 .jp-text-editor-icon-color[fill] {
1620   fill: var(--jp-text-editor-icon-color, var(--jp-inverse-layout-color3));
1621 }
1622
1623 .jp-inspector-icon-color[fill] {
1624   fill: var(--jp-inspector-icon-color, var(--jp-inverse-layout-color3));
1625 }
1626
1627 /* CSS for icons in selected filebrowser listing items */
1628 .jp-DirListing-item.jp-mod-selected .jp-icon-selectable[fill] {
1629   fill: #fff;
1630 }
1631
1632 .jp-DirListing-item.jp-mod-selected .jp-icon-selectable-inverse[fill] {
1633   fill: var(--jp-brand-color1);
1634 }
1635
1636 /* stylelint-disable selector-max-class, selector-max-compound-selectors */
1637
1638 /**
1639 * TODO: come up with non css-hack solution for showing the busy icon on top
1640 * of the close icon
1641 * CSS for complex behavior of close icon of tabs in the main area tabbar
1642 */
1643 .lm-DockPanel-tabBar
1644   .lm-TabBar-tab.lm-mod-closable.jp-mod-dirty
1645     > .lm-TabBar-tabCloseIcon
1646     > :not(:hover)
1647     > .jp-icon3[fill] {
1648       fill: none;
1649     }
1650
1651 .lm-DockPanel-tabBar
1652   .lm-TabBar-tab.lm-mod-closable.jp-mod-dirty
1653     > .lm-TabBar-tabCloseIcon
1654     > :not(:hover)
1655     > .jp-icon-busy[fill] {
1656       fill: var(--jp-inverse-layout-color3);
1657     }
1658
1659 /* stylelint-enable selector-max-class, selector-max-compound-selectors */
1660
1661 /* CSS for icons in status bar */
1662 #jp-main-statusbar .jp-mod-selected .jp-icon-selectable[fill] {
1663   fill: #fff;
1664 }
1665
1666 #jp-main-statusbar .jp-mod-selected .jp-icon-selectable-inverse[fill] {
1667   fill: var(--jp-brand-color1);
1668 }
1669
```

```
1670 /* special handling for splash icon CSS. While the theme CSS reloads during
1671   splash, the splash icon can loose theming. To prevent that, we set a
1672   default for its color variable */
1673 :root {
1674   --jp-warn-color0: var(--md-orange-700);
1675 }
1676
1677 /* not sure what to do with this one, used in filebrowser listing */
1678 .jp-DragIcon {
1679   margin-right: 4px;
1680 }
1681
1682 -----
1683 | Copyright (c) Jupyter Development Team.
1684 | Distributed under the terms of the Modified BSD License.
1685 |-----*/
1686
1687 /**
1688 * Support for alt colors for icons as inline SVG HTMLElements
1689 */
1690
1691 /* alt recolor the primary elements of an icon */
1692 .jp-icon-alt .jp-icon0[fill] {
1693   fill: var(--jp-layout-color0);
1694 }
1695
1696 .jp-icon-alt .jp-icon1[fill] {
1697   fill: var(--jp-layout-color1);
1698 }
1699
1700 .jp-icon-alt .jp-icon2[fill] {
1701   fill: var(--jp-layout-color2);
1702 }
1703
1704 .jp-icon-alt .jp-icon3[fill] {
1705   fill: var(--jp-layout-color3);
1706 }
1707
1708 .jp-icon-alt .jp-icon4[fill] {
1709   fill: var(--jp-layout-color4);
1710 }
1711
1712 .jp-icon-alt .jp-icon0[stroke] {
1713   stroke: var(--jp-layout-color0);
1714 }
1715
1716 .jp-icon-alt .jp-icon1[stroke] {
1717   stroke: var(--jp-layout-color1);
1718 }
1719
1720 .jp-icon-alt .jp-icon2[stroke] {
1721   stroke: var(--jp-layout-color2);
1722 }
1723
1724 .jp-icon-alt .jp-icon3[stroke] {
1725   stroke: var(--jp-layout-color3);
1726 }
1727
1728 .jp-icon-alt .jp-icon4[stroke] {
1729   stroke: var(--jp-layout-color4);
1730 }
1731
1732 /* alt recolor the accent elements of an icon */
1733 .jp-icon-alt .jp-icon-accent0[fill] {
1734   fill: var(--jp-inverse-layout-color0);
1735 }
1736
1737 .jp-icon-alt .jp-icon-accent1[fill] {
1738   fill: var(--jp-inverse-layout-color1);
1739 }
1740
1741 .jp-icon-alt .jp-icon-accent2[fill] {
1742   fill: var(--jp-inverse-layout-color2);
1743 }
1744
1745 .jp-icon-alt .jp-icon-accent3[fill] {
```

```
1746   fill: var(--jp-inverse-layout-color3);  
1747 }  
1748  
1749 .jp-icon-alt .jp-icon-accent4[fill] {  
1750   fill: var(--jp-inverse-layout-color4);  
1751 }  
1752  
1753 .jp-icon-alt .jp-icon-accent0[stroke] {  
1754   stroke: var(--jp-inverse-layout-color0);  
1755 }  
1756  
1757 .jp-icon-alt .jp-icon-accent1[stroke] {  
1758   stroke: var(--jp-inverse-layout-color1);  
1759 }  
1760  
1761 .jp-icon-alt .jp-icon-accent2[stroke] {  
1762   stroke: var(--jp-inverse-layout-color2);  
1763 }  
1764  
1765 .jp-icon-alt .jp-icon-accent3[stroke] {  
1766   stroke: var(--jp-inverse-layout-color3);  
1767 }  
1768  
1769 .jp-icon-alt .jp-icon-accent4[stroke] {  
1770   stroke: var(--jp-inverse-layout-color4);  
1771 }  
1772  
1773 /*-----  
1774 | Copyright (c) Jupyter Development Team.  
1775 | Distributed under the terms of the Modified BSD License.  
1776 |-----*/  
1777  
1778 .jp-icon-hoverShow:not(:hover) .jp-icon-hoverShow-content {  
1779   display: none !important;  
1780 }  
1781  
1782 /**  
1783 * Support for hover colors for icons as inline SVG HTMLElements  
1784 */  
1785  
1786 /**  
1787 * regular colors  
1788 */  
1789  
1790 /* recolor the primary elements of an icon */  
1791 .jp-icon-hover :hover .jp-icon0-hover[fill] {  
1792   fill: var(--jp-inverse-layout-color0);  
1793 }  
1794  
1795 .jp-icon-hover :hover .jp-icon1-hover[fill] {  
1796   fill: var(--jp-inverse-layout-color1);  
1797 }  
1798  
1799 .jp-icon-hover :hover .jp-icon2-hover[fill] {  
1800   fill: var(--jp-inverse-layout-color2);  
1801 }  
1802  
1803 .jp-icon-hover :hover .jp-icon3-hover[fill] {  
1804   fill: var(--jp-inverse-layout-color3);  
1805 }  
1806  
1807 .jp-icon-hover :hover .jp-icon4-hover[fill] {  
1808   fill: var(--jp-inverse-layout-color4);  
1809 }  
1810  
1811 .jp-icon-hover :hover .jp-icon0-hover[stroke] {  
1812   stroke: var(--jp-inverse-layout-color0);  
1813 }  
1814  
1815 .jp-icon-hover :hover .jp-icon1-hover[stroke] {  
1816   stroke: var(--jp-inverse-layout-color1);  
1817 }  
1818  
1819 .jp-icon-hover :hover .jp-icon2-hover[stroke] {  
1820   stroke: var(--jp-inverse-layout-color2);  
1821 }
```

```
1822 .jp-icon-hover :hover .jp-icon3-hover[stroke] {  
1823   stroke: var(--jp-inverse-layout-color3);  
1824 }  
1825  
1826 .jp-icon-hover :hover .jp-icon4-hover[stroke] {  
1827   stroke: var(--jp-inverse-layout-color4);  
1828 }  
1829  
1830 /* recolor the accent elements of an icon */  
1831 .jp-icon-hover :hover .jp-icon-accent0-hover[fill] {  
1832   fill: var(--jp-layout-color0);  
1833 }  
1834  
1835 .jp-icon-hover :hover .jp-icon-accent1-hover[fill] {  
1836   fill: var(--jp-layout-color1);  
1837 }  
1838  
1839 .jp-icon-hover :hover .jp-icon-accent2-hover[fill] {  
1840   fill: var(--jp-layout-color2);  
1841 }  
1842  
1843 .jp-icon-hover :hover .jp-icon-accent3-hover[fill] {  
1844   fill: var(--jp-layout-color3);  
1845 }  
1846  
1847 .jp-icon-hover :hover .jp-icon-accent4-hover[fill] {  
1848   fill: var(--jp-layout-color4);  
1849 }  
1850  
1851 .jp-icon-hover :hover .jp-icon-accent0-hover[stroke] {  
1852   stroke: var(--jp-layout-color0);  
1853 }  
1854  
1855 .jp-icon-hover :hover .jp-icon-accent1-hover[stroke] {  
1856   stroke: var(--jp-layout-color1);  
1857 }  
1858  
1859 .jp-icon-hover :hover .jp-icon-accent2-hover[stroke] {  
1860   stroke: var(--jp-layout-color2);  
1861 }  
1862  
1863 .jp-icon-hover :hover .jp-icon-accent3-hover[stroke] {  
1864   stroke: var(--jp-layout-color3);  
1865 }  
1866  
1867 .jp-icon-hover :hover .jp-icon-accent4-hover[stroke] {  
1868   stroke: var(--jp-layout-color4);  
1869 }  
1870  
1871 /* set the color of an icon to transparent */  
1872 .jp-icon-hover :hover .jp-icon-none-hover[fill] {  
1873   fill: none;  
1874 }  
1875  
1876  
1877 .jp-icon-hover :hover .jp-icon-none-hover[stroke] {  
1878   stroke: none;  
1879 }  
1880  
1881 /**  
1882 * inverse colors  
1883 */  
1884  
1885 /* inverse recolor the primary elements of an icon */  
1886 .jp-icon-hover.jp-icon-alt :hover .jp-icon0-hover[fill] {  
1887   fill: var(--jp-layout-color0);  
1888 }  
1889  
1890 .jp-icon-hover.jp-icon-alt :hover .jp-icon1-hover[fill] {  
1891   fill: var(--jp-layout-color1);  
1892 }  
1893  
1894 .jp-icon-hover.jp-icon-alt :hover .jp-icon2-hover[fill] {  
1895   fill: var(--jp-layout-color2);  
1896 }  
1897
```

```
1898 .jp-icon-hover.jp-icon-alt :hover .jp-icon3-hover[fill] {  
1899   fill: var(--jp-layout-color3);  
1900 }  
1901  
1902 .jp-icon-hover.jp-icon-alt :hover .jp-icon4-hover[fill] {  
1903   fill: var(--jp-layout-color4);  
1904 }  
1905  
1906 .jp-icon-hover.jp-icon-alt :hover .jp-icon0-hover[stroke] {  
1907   stroke: var(--jp-layout-color0);  
1908 }  
1909  
1910 .jp-icon-hover.jp-icon-alt :hover .jp-icon1-hover[stroke] {  
1911   stroke: var(--jp-layout-color1);  
1912 }  
1913  
1914 .jp-icon-hover.jp-icon-alt :hover .jp-icon2-hover[stroke] {  
1915   stroke: var(--jp-layout-color2);  
1916 }  
1917  
1918 .jp-icon-hover.jp-icon-alt :hover .jp-icon3-hover[stroke] {  
1919   stroke: var(--jp-layout-color3);  
1920 }  
1921  
1922 .jp-icon-hover.jp-icon-alt :hover .jp-icon4-hover[stroke] {  
1923   stroke: var(--jp-layout-color4);  
1924 }  
1925  
/* inverse recolor the accent elements of an icon */  
1926 .jp-icon-hover.jp-icon-alt :hover .jp-icon-accent0-hover[fill] {  
1927   fill: var(--jp-inverse-layout-color0);  
1928 }  
1929  
1930  
1931 .jp-icon-hover.jp-icon-alt :hover .jp-icon-accent1-hover[fill] {  
1932   fill: var(--jp-inverse-layout-color1);  
1933 }  
1934  
1935 .jp-icon-hover.jp-icon-alt :hover .jp-icon-accent2-hover[fill] {  
1936   fill: var(--jp-inverse-layout-color2);  
1937 }  
1938  
1939 .jp-icon-hover.jp-icon-alt :hover .jp-icon-accent3-hover[fill] {  
1940   fill: var(--jp-inverse-layout-color3);  
1941 }  
1942  
1943 .jp-icon-hover.jp-icon-alt :hover .jp-icon-accent4-hover[fill] {  
1944   fill: var(--jp-inverse-layout-color4);  
1945 }  
1946  
1947 .jp-icon-hover.jp-icon-alt :hover .jp-icon-accent0-hover[stroke] {  
1948   stroke: var(--jp-inverse-layout-color0);  
1949 }  
1950  
1951 .jp-icon-hover.jp-icon-alt :hover .jp-icon-accent1-hover[stroke] {  
1952   stroke: var(--jp-inverse-layout-color1);  
1953 }  
1954  
1955 .jp-icon-hover.jp-icon-alt :hover .jp-icon-accent2-hover[stroke] {  
1956   stroke: var(--jp-inverse-layout-color2);  
1957 }  
1958  
1959 .jp-icon-hover.jp-icon-alt :hover .jp-icon-accent3-hover[stroke] {  
1960   stroke: var(--jp-inverse-layout-color3);  
1961 }  
1962  
1963 .jp-icon-hover.jp-icon-alt :hover .jp-icon-accent4-hover[stroke] {  
1964   stroke: var(--jp-inverse-layout-color4);  
1965 }  
1966  
1967 /*-----  
1968 | Copyright (c) Jupyter Development Team.  
1969 | Distributed under the terms of the Modified BSD License.  
1970 |-----*/  
1971  
1972 .jp-IFrame {  
1973   width: 100%;
```

```
1974     height: 100%;  
1975 }  
1976  
1977 .jp-IFrame > iframe {  
1978   border: none;  
1979 }  
1980  
1981 /*  
1982 When drag events occur, `lm-mod-override-cursor` is added to the body.  
1983 Because iframes steal all cursor events, the following two rules are necessary  
1984 to suppress pointer events while resize drags are occurring. There may be a  
1985 better solution to this problem.  
1986 */  
1987 body.lm-mod-override-cursor .jp-IFrame {  
1988   position: relative;  
1989 }  
1990  
1991 body.lm-mod-override-cursor .jp-IFrame::before {  
1992   content: '';  
1993   position: absolute;  
1994   top: 0;  
1995   left: 0;  
1996   right: 0;  
1997   bottom: 0;  
1998   background: transparent;  
1999 }  
2000  
2001 /*-----  
2002 | Copyright (c) 2014-2016, Jupyter Development Team.  
2003 |  
2004 | Distributed under the terms of the Modified BSD License.  
2005 |-----*/  
2006  
2007 .jp-HoverBox {  
2008   position: fixed;  
2009 }  
2010  
2011 /*-----  
2012 | Copyright (c) Jupyter Development Team.  
2013 | Distributed under the terms of the Modified BSD License.  
2014 |-----*/  
2015  
2016 .jp-FormGroup-content fieldset {  
2017   border: none;  
2018   padding: 0;  
2019   min-width: 0;  
2020   width: 100%;  
2021 }  
2022  
2023 /* stylelint-disable selector-max-type */  
2024  
2025 .jp-FormGroup-content fieldset .jp-inputFieldWrapper input,  
2026 .jp-FormGroup-content fieldset .jp-inputFieldWrapper select,  
2027 .jp-FormGroup-content fieldset .jp-inputFieldWrapper textarea {  
2028   font-size: var(--jp-content-font-size2);  
2029   border-color: var(--jp-input-border-color);  
2030   border-style: solid;  
2031   border-radius: var(--jp-border-radius);  
2032   border-width: 1px;  
2033   padding: 6px 8px;  
2034   background: none;  
2035   color: var(--jp-ui-color0);  
2036   height: inherit;  
2037 }  
2038  
2039 .jp-FormGroup-content fieldset input[type='checkbox'] {  
2040   position: relative;  
2041   top: 2px;  
2042   margin-left: 0;  
2043 }  
2044  
2045 .jp-FormGroup-content button.jp-mod-styled {  
2046   cursor: pointer;  
2047 }  
2048  
2049 .jp-FormGroup-content .checkbox label {
```

```
2050 cursor: pointer;
2051 font-size: var(--jp-content-font-size1);
2052 }
2053
2054 .jp-FormGroup-content .jp-root > fieldset > legend {
2055 display: none;
2056 }
2057
2058 .jp-FormGroup-content .jp-root > fieldset > p {
2059 display: none;
2060 }
2061
2062 /* copy of `input.jp-mod-styled:focus` style */
2063 .jp-FormGroup-content fieldset input:focus,
2064 .jp-FormGroup-content fieldset select:focus {
2065 -moz-outline-radius: unset;
2066 outline: var(--jp-border-width) solid var(--md-blue-500);
2067 outline-offset: -1px;
2068 box-shadow: inset 0 0 4px var(--md-blue-300);
2069 }
2070
2071 .jp-FormGroup-content fieldset input:hover:not(:focus),
2072 .jp-FormGroup-content fieldset select:hover:not(:focus) {
2073 background-color: var(--jp-border-color2);
2074 }
2075
2076 /* stylelint-enable selector-max-type */
2077
2078 .jp-FormGroup-content .checkbox .field-description {
2079 /* Disable default description field for checkbox:
2080 because other widgets do not have description fields,
2081 we add descriptions to each widget on the field level.
2082 */
2083 display: none;
2084 }
2085
2086 .jp-FormGroup-content #root__description {
2087 display: none;
2088 }
2089
2090 .jp-FormGroup-content .jp-modifiedIndicator {
2091 width: 5px;
2092 background-color: var(--jp-brand-color2);
2093 margin-top: 0;
2094 margin-left: calc(var(--jp-private-settingeditor-modifier-indent) * -1);
2095 flex-shrink: 0;
2096 }
2097
2098 .jp-FormGroup-content .jp-modifiedIndicator.jp-errorIndicator {
2099 background-color: var(--jp-error-color0);
2100 margin-right: 0.5em;
2101 }
2102
2103 /* RJSF ARRAY style */
2104
2105 .jp-arrayFieldWrapper legend {
2106 font-size: var(--jp-content-font-size2);
2107 color: var(--jp-ui-font-color0);
2108 flex-basis: 100%;
2109 padding: 4px 0;
2110 font-weight: var(--jp-content-heading-font-weight);
2111 border-bottom: 1px solid var(--jp-border-color2);
2112 }
2113
2114 .jp-arrayFieldWrapper .field-description {
2115 padding: 4px 0;
2116 white-space: pre-wrap;
2117 }
2118
2119 .jp-arrayFieldWrapper .array-item {
2120 width: 100%;
2121 border: 1px solid var(--jp-border-color2);
2122 border-radius: 4px;
2123 margin: 4px;
2124 }
```

```
2126 .jp-ArrayOperations {  
2127   display: flex;  
2128   margin-left: 8px;  
2129 }  
2130  
2131 .jp-ArrayOperationsButton {  
2132   margin: 2px;  
2133 }  
2134  
2135 .jp-ArrayOperationsButton.jp-icon3[fill] {  
2136   fill: var(--jp-ui-font-color0);  
2137 }  
2138  
2139 button.jp-ArrayOperationsButton.jp-mod-styled:disabled {  
2140   cursor: not-allowed;  
2141   opacity: 0.5;  
2142 }  
2143  
2144 /* RJSF form validation error */  
2145  
2146 .jp-FormGroup-content .validationErrors {  
2147   color: var(--jp-error-color0);  
2148 }  
2149  
2150 /* Hide panel level error as duplicated the field level error */  
2151 .jp-FormGroup-content .panel.errors {  
2152   display: none;  
2153 }  
2154  
2155 /* RJSF normal content (settings-editor) */  
2156  
2157 .jp-FormGroup-contentNormal {  
2158   display: flex;  
2159   align-items: center;  
2160   flex-wrap: wrap;  
2161 }  
2162  
2163 .jp-FormGroup-contentNormal .jp-FormGroup-contentItem {  
2164   margin-left: 7px;  
2165   color: var(--jp-ui-font-color0);  
2166 }  
2167  
2168 .jp-FormGroup-contentNormal .jp-FormGroup-description {  
2169   flex-basis: 100%;  
2170   padding: 4px 7px;  
2171 }  
2172  
2173 .jp-FormGroup-contentNormal .jp-FormGroup-default {  
2174   flex-basis: 100%;  
2175   padding: 4px 7px;  
2176 }  
2177  
2178 .jp-FormGroup-contentNormal .jp-FormGroup-fieldLabel {  
2179   font-size: var(--jp-content-font-size1);  
2180   font-weight: normal;  
2181   min-width: 120px;  
2182 }  
2183  
2184 .jp-FormGroup-contentNormal fieldset:not(:first-child) {  
2185   margin-left: 7px;  
2186 }  
2187  
2188 .jp-FormGroup-contentNormal .field-array-of-string .array-item {  
2189   /* Display `jp-ArrayOperations` buttons side-by-side with content except  
2190   for small screens where flex-wrap will place them one below the other.  
2191   */  
2192   display: flex;  
2193   align-items: center;  
2194   flex-wrap: wrap;  
2195 }  
2196  
2197 .jp-FormGroup-contentNormal .jp-objectFieldWrapper .form-group {  
2198   padding: 2px 8px 2px var(--jp-private-settingeditor-modifier-indent);  
2199   margin-top: 2px;  
2200 }  
2201 }
```

```
2202 /* RJSF compact content (metadata-form) */
2203
2204 .jp-FormGroup-content.jp-FormGroup-contentCompact {
2205   width: 100%;
2206 }
2207
2208 .jp-FormGroup-contentCompact .form-group {
2209   display: flex;
2210   padding: 0.5em 0.2em 0.5em 0;
2211 }
2212
2213 .jp-FormGroup-contentCompact
2214   .jp-FormGroup-compactTitle
2215   .jp-FormGroup-description {
2216     font-size: var(--jp-ui-font-size1);
2217     color: var(--jp-ui-font-color2);
2218   }
2219
2220 .jp-FormGroup-contentCompact .jp-FormGroup-fieldLabel {
2221   padding-bottom: 0.3em;
2222 }
2223
2224 .jp-FormGroup-contentCompact .jp-inputFieldWrapper .form-control {
2225   width: 100%;
2226   box-sizing: border-box;
2227 }
2228
2229 .jp-FormGroup-contentCompact .jp-arrayFieldWrapper .jp-FormGroup-compactTitle {
2230   padding-bottom: 7px;
2231 }
2232
2233 .jp-FormGroup-contentCompact
2234   .jp-objectFieldWrapper
2235   .jp-objectFieldWrapper
2236   .form-group {
2237     padding: 2px 8px 2px var(--jp-private-settingeditor-modifier-indent);
2238     margin-top: 2px;
2239   }
2240
2241 .jp-FormGroup-contentCompact ul.error-detail {
2242   margin-block-start: 0.5em;
2243   margin-block-end: 0.5em;
2244   padding-inline-start: 1em;
2245 }
2246
2247 /*
2248 * Copyright (c) Jupyter Development Team.
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2250 */
2251
2252 .jp-SidePanel {
2253   display: flex;
2254   flex-direction: column;
2255   min-width: var(--jp-sidebar-min-width);
2256   overflow-y: auto;
2257   color: var(--jp-ui-font-color1);
2258   background: var(--jp-layout-color1);
2259   font-size: var(--jp-ui-font-size1);
2260 }
2261
2262 .jp-SidePanel-header {
2263   flex: 0 0 auto;
2264   display: flex;
2265   border-bottom: var(--jp-border-width) solid var(--jp-border-color2);
2266   font-size: var(--jp-ui-font-size0);
2267   font-weight: 600;
2268   letter-spacing: 1px;
2269   margin: 0;
2270   padding: 2px;
2271   text-transform: uppercase;
2272 }
2273
2274 .jp-SidePanel-toolbar {
2275   flex: 0 0 auto;
2276 }
```

```
2278 .jp-SidePanel-content {
2279   flex: 1 1 auto;
2280 }
2281
2282 .jp-SidePanel-toolbar,
2283 .jp-AccordionPanel-toolbar {
2284   height: var(--jp-private-toolbar-height);
2285 }
2286
2287 .jp-SidePanel-toolbar.jp-Toolbar-micro {
2288   display: none;
2289 }
2290
2291 .lm-AccordionPanel .jp-AccordionPanel-title {
2292   box-sizing: border-box;
2293   line-height: 25px;
2294   margin: 0;
2295   display: flex;
2296   align-items: center;
2297   background: var(--jp-layout-color1);
2298   color: var(--jp-ui-font-color1);
2299   border-bottom: var(--jp-border-width) solid var(--jp-toolbar-border-color);
2300   box-shadow: var(--jp-toolbar-box-shadow);
2301   font-size: var(--jp-ui-font-size0);
2302 }
2303
2304 .jp-AccordionPanel-title {
2305   cursor: pointer;
2306   user-select: none;
2307   -moz-user-select: none;
2308   -webkit-user-select: none;
2309   text-transform: uppercase;
2310 }
2311
2312 .lm-AccordionPanel[data-orientation='horizontal'] > .jp-AccordionPanel-title {
2313   /* Title is rotated for horizontal accordion panel using CSS */
2314   display: block;
2315   transform-origin: top left;
2316   transform: rotate(-90deg) translate(-100%);
2317 }
2318
2319 .jp-AccordionPanel-title .lm-AccordionPanel-titleLabel {
2320   user-select: none;
2321   text-overflow: ellipsis;
2322   white-space: nowrap;
2323   overflow: hidden;
2324 }
2325
2326 .jp-AccordionPanel-title .lm-AccordionPanel-titleCollapser {
2327   transform: rotate(-90deg);
2328   margin: auto 0;
2329   height: 16px;
2330 }
2331
2332 .jp-AccordionPanel-title.lm-mod-expanded .lm-AccordionPanel-titleCollapser {
2333   transform: rotate(0deg);
2334 }
2335
2336 .lm-AccordionPanel .jp-AccordionPanel-toolbar {
2337   background: none;
2338   box-shadow: none;
2339   border: none;
2340   margin-left: auto;
2341 }
2342
2343 .lm-AccordionPanel .lm-SplitPanel-handle:hover {
2344   background: var(--jp-layout-color3);
2345 }
2346
2347 .jp-text-truncated {
2348   overflow: hidden;
2349   text-overflow: ellipsis;
2350   white-space: nowrap;
2351 }
2352
2353 /*-----
```

```
2354 | Copyright (c) 2017, Jupyter Development Team.  
2355 |  
2356 | Distributed under the terms of the Modified BSD License.  
2357 |-----*/  
2358  
2359 .jp-Spinner {  
2360   position: absolute;  
2361   display: flex;  
2362   justify-content: center;  
2363   align-items: center;  
2364   z-index: 10;  
2365   left: 0;  
2366   top: 0;  
2367   width: 100%;  
2368   height: 100%;  
2369   background: var(--jp-layout-color0);  
2370   outline: none;  
2371 }  
2372  
2373 .jp-SpinnerContent {  
2374   font-size: 10px;  
2375   margin: 50px auto;  
2376   text-indent: -9999em;  
2377   width: 3em;  
2378   height: 3em;  
2379   border-radius: 50%;  
2380   background: var(--jp-brand-color3);  
2381   background: linear-gradient(  
2382     to right,  
2383     #f37626 10%,  
2384     rgba(255, 255, 255, 0) 42%  
2385   );  
2386   position: relative;  
2387   animation: fadeIn 1s infinite linear, fadeIn 1s;  
2388 }  
2389  
2390 .jp-SpinnerContent::before {  
2391   width: 50%;  
2392   height: 50%;  
2393   background: #f37626;  
2394   border-radius: 100% 0 0;  
2395   position: absolute;  
2396   top: 0;  
2397   left: 0;  
2398   content: '';  
2399 }  
2400  
2401 .jp-SpinnerContent::after {  
2402   background: var(--jp-layout-color0);  
2403   width: 75%;  
2404   height: 75%;  
2405   border-radius: 50%;  
2406   content: '';  
2407   margin: auto;  
2408   position: absolute;  
2409   top: 0;  
2410   left: 0;  
2411   bottom: 0;  
2412   right: 0;  
2413 }  
2414  
2415 @keyframes fadeIn {  
2416   0% {  
2417     opacity: 0;  
2418   }  
2419  
2420   100% {  
2421     opacity: 1;  
2422   }  
2423 }  
2424  
2425 @keyframes load3 {  
2426   0% {  
2427     transform: rotate(0deg);  
2428   }  
2429 }
```

```
2430    100% {
2431      transform: rotate(360deg);
2432    }
2433  }
2434
2435 /*-----
2436 | Copyright (c) 2014-2017, Jupyter Development Team.
2437 |
2438 | Distributed under the terms of the Modified BSD License.
2439 |-----*/
2440
2441 button.jp-mod-styled {
2442   font-size: var(--jp-ui-font-size1);
2443   color: var(--jp-ui-font-color0);
2444   border: none;
2445   box-sizing: border-box;
2446   text-align: center;
2447   line-height: 32px;
2448   height: 32px;
2449   padding: 0 12px;
2450   letter-spacing: 0.8px;
2451   outline: none;
2452   appearance: none;
2453   -webkit-appearance: none;
2454   -moz-appearance: none;
2455 }
2456
2457 input.jp-mod-styled {
2458   background: var(--jp-input-background);
2459   height: 28px;
2460   box-sizing: border-box;
2461   border: var(--jp-border-width) solid var(--jp-border-color1);
2462   padding-left: 7px;
2463   padding-right: 7px;
2464   font-size: var(--jp-ui-font-size2);
2465   color: var(--jp-ui-font-color0);
2466   outline: none;
2467   appearance: none;
2468   -webkit-appearance: none;
2469   -moz-appearance: none;
2470 }
2471
2472 input[type='checkbox'].jp-mod-styled {
2473   appearance: checkbox;
2474   -webkit-appearance: checkbox;
2475   -moz-appearance: checkbox;
2476   height: auto;
2477 }
2478
2479 input.jp-mod-styled:focus {
2480   border: var(--jp-border-width) solid var(--md-blue-500);
2481   box-shadow: inset 0 0 4px var(--md-blue-300);
2482 }
2483
2484 .jp-select-wrapper {
2485   display: flex;
2486   position: relative;
2487   flex-direction: column;
2488   padding: 1px;
2489   background-color: var(--jp-layout-color1);
2490   box-sizing: border-box;
2491   margin-bottom: 12px;
2492 }
2493
2494 .jp-select-wrapper:not(.multiple) {
2495   height: 28px;
2496 }
2497
2498 .jp-select-wrapper.jp-mod-focused select.jp-mod-styled {
2499   border: var(--jp-border-width) solid var(--jp-input-active-border-color);
2500   box-shadow: var(--jp-input-box-shadow);
2501   background-color: var(--jp-input-active-background);
2502 }
2503
2504 select.jp-mod-styled:hover {
2505   cursor: pointer;
```

```
2506   color: var(--jp-ui-font-color0);  
2507   background-color: var(--jp-input-hover-background);  
2508   box-shadow: inset 0 0 1px rgba(0, 0, 0, 0.5);  
2509 }  
2510  
2511 select.jp-mod-styled {  
2512   flex: 1 1 auto;  
2513   width: 100%;  
2514   font-size: var(--jp-ui-font-size2);  
2515   background: var(--jp-input-background);  
2516   color: var(--jp-ui-font-color0);  
2517   padding: 0 25px 0 8px;  
2518   border: var(--jp-border-width) solid var(--jp-input-border-color);  
2519   border-radius: 0;  
2520   outline: none;  
2521   appearance: none;  
2522   -webkit-appearance: none;  
2523   -moz-appearance: none;  
2524 }  
2525  
2526 select.jp-mod-styled:not([multiple]) {  
2527   height: 32px;  
2528 }  
2529  
2530 select.jp-mod-styled[multiple] {  
2531   max-height: 200px;  
2532   overflow-y: auto;  
2533 }  
2534  
2535 /*****  
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2538 |*****/  
2539  
2540 .jp-switch {  
2541   display: flex;  
2542   align-items: center;  
2543   padding-left: 4px;  
2544   padding-right: 4px;  
2545   font-size: var(--jp-ui-font-size1);  
2546   background-color: transparent;  
2547   color: var(--jp-ui-font-color1);  
2548   border: none;  
2549   height: 20px;  
2550 }  
2551  
2552 .jp-switch:hover {  
2553   background-color: var(--jp-layout-color2);  
2554 }  
2555  
2556 .jp-switch-label {  
2557   margin-right: 5px;  
2558   font-family: var(--jp-ui-font-family);  
2559 }  
2560  
2561 .jp-switch-track {  
2562   cursor: pointer;  
2563   background-color: var(--jp-switch-color, var(--jp-border-color1));  
2564   -webkit-transition: 0.4s;  
2565   transition: 0.4s;  
2566   border-radius: 34px;  
2567   height: 16px;  
2568   width: 35px;  
2569   position: relative;  
2570 }  
2571  
2572 .jp-switch-track::before {  
2573   content: '';  
2574   position: absolute;  
2575   height: 10px;  
2576   width: 10px;  
2577   margin: 3px;  
2578   left: 0;  
2579   background-color: var(--jp-ui-inverse-font-color1);  
2580   -webkit-transition: 0.4s;  
2581   transition: 0.4s;
```

```
2582 border-radius: 50%;  
2583 }  
2584  
2585 .jp-switch[aria-checked='true'] .jp-switch-track {  
2586 background-color: var(--jp-switch-true-position-color, var(--jp-warn-color0));  
2587 }  
2588  
2589 .jp-switch[aria-checked='true'] .jp-switch-track::before {  
2590 /* track width (35) - margins (3 + 3) - thumb width (10) */  
2591 left: 19px;  
2592 }  
2593  
2594 -----  
2595 | Copyright (c) 2014-2016, Jupyter Development Team.  
2596 |  
2597 | Distributed under the terms of the Modified BSD License.  
2598 |-----*/  
2599  
2600 :root {  
2601 --jp-private-toolbar-height: calc(  
2602 28px + var(--jp-border-width)  
2603 ); /* leave 28px for content */  
2604 }  
2605  
2606 .jp-Toolbar {  
2607 color: var(--jp-ui-font-color1);  
2608 flex: 0 0 auto;  
2609 display: flex;  
2610 flex-direction: row;  
2611 border-bottom: var(--jp-border-width) solid var(--jp-toolbar-border-color);  
2612 box-shadow: var(--jp-toolbar-box-shadow);  
2613 background: var(--jp-toolbar-background);  
2614 min-height: var(--jp-toolbar-micro-height);  
2615 padding: 2px;  
2616 z-index: 8;  
2617 overflow-x: hidden;  
2618 }  
2619  
2620 /* Toolbar items */  
2621  
2622 .jp-Toolbar > .jp-Toolbar-item.jp-Toolbar-spacer {  
2623 flex-grow: 1;  
2624 flex-shrink: 1;  
2625 }  
2626  
2627 .jp-Toolbar-item.jp-Toolbar-kernelStatus {  
2628 display: inline-block;  
2629 width: 32px;  
2630 background-repeat: no-repeat;  
2631 background-position: center;  
2632 background-size: 16px;  
2633 }  
2634  
2635 .jp-Toolbar > .jp-Toolbar-item {  
2636 flex: 0 0 auto;  
2637 display: flex;  
2638 padding-left: 1px;  
2639 padding-right: 1px;  
2640 font-size: var(--jp-ui-font-size1);  
2641 line-height: var(--jp-private-toolbar-height);  
2642 height: 100%;  
2643 }  
2644  
2645 /* Toolbar buttons */  
2646  
2647 /* This is the div we use to wrap the react component into a Widget */  
2648 div.jp-ToolbarButton {  
2649 color: transparent;  
2650 border: none;  
2651 box-sizing: border-box;  
2652 outline: none;  
2653 appearance: none;  
2654 -webkit-appearance: none;  
2655 -moz-appearance: none;  
2656 padding: 0;  
2657 margin: 0;
```

```
2658 }
2659
2660 button.jp-ToolbarButtonComponent {
2661   background: var(--jp-layout-color1);
2662   border: none;
2663   box-sizing: border-box;
2664   outline: none;
2665   appearance: none;
2666   -webkit-appearance: none;
2667   -moz-appearance: none;
2668   padding: 0 6px;
2669   margin: 0;
2670   height: 24px;
2671   border-radius: var(--jp-border-radius);
2672   display: flex;
2673   align-items: center;
2674   text-align: center;
2675   font-size: 14px;
2676   min-width: unset;
2677   min-height: unset;
2678 }
2679
2680 button.jp-ToolbarButtonComponent:disabled {
2681   opacity: 0.4;
2682 }
2683
2684 button.jp-ToolbarButtonComponent > span {
2685   padding: 0;
2686   flex: 0 0 auto;
2687 }
2688
2689 button.jp-ToolbarButtonComponent .jp-ToolbarButtonComponent-label {
2690   font-size: var(--jp-ui-font-size1);
2691   line-height: 100%;
2692   padding-left: 2px;
2693   color: var(--jp-ui-font-color1);
2694   font-family: var(--jp-ui-font-family);
2695 }
2696
2697 #jp-main-dock-panel[data-mode='single-document']
2698   .jp-MainAreaWidget
2699   > .jp-Toolbar.jp-Toolbar-micro {
2700     padding: 0;
2701     min-height: 0;
2702   }
2703
2704 #jp-main-dock-panel[data-mode='single-document']
2705   .jp-MainAreaWidget
2706   > .jp-Toolbar {
2707     border: none;
2708     box-shadow: none;
2709   }
2710
2711 /*
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2714 */
2715
2716 .jp-WindowedPanel-outer {
2717   position: relative;
2718   overflow-y: auto;
2719 }
2720
2721 .jp-WindowedPanel-inner {
2722   position: relative;
2723 }
2724
2725 .jp-WindowedPanel-window {
2726   position: absolute;
2727   left: 0;
2728   right: 0;
2729   overflow: visible;
2730 }
2731
2732 /*
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```

```
2734 | Distributed under the terms of the Modified BSD License.  
2735 |-----*/  
2736  
2737 /* Sibling imports */  
2738  
2739 body {  
2740   color: var(--jp-ui-font-color1);  
2741   font-size: var(--jp-ui-font-size1);  
2742 }  
2743  
2744 /* Disable native link decoration styles everywhere outside of dialog boxes */  
2745 a {  
2746   text-decoration: unset;  
2747   color: unset;  
2748 }  
2749  
2750 a:hover {  
2751   text-decoration: unset;  
2752   color: unset;  
2753 }  
2754  
2755 /* Accessibility for links inside dialog box text */  
2756 .jp-Dialog-content a {  
2757   text-decoration: revert;  
2758   color: var(--jp-content-link-color);  
2759 }  
2760  
2761 .jp-Dialog-content a:hover {  
2762   text-decoration: revert;  
2763 }  
2764  
2765 /* Styles for ui-components */  
2766 .jp-Button {  
2767   color: var(--jp-ui-font-color2);  
2768   border-radius: var(--jp-border-radius);  
2769   padding: 0 12px;  
2770   font-size: var(--jp-ui-font-size1);  
2771  
2772   /* Copy from blueprint 3 */  
2773   display: inline-flex;  
2774   flex-direction: row;  
2775   border: none;  
2776   cursor: pointer;  
2777   align-items: center;  
2778   justify-content: center;  
2779   text-align: left;  
2780   vertical-align: middle;  
2781   min-height: 30px;  
2782   min-width: 30px;  
2783 }  
2784  
2785 .jp-Button:disabled {  
2786   cursor: not-allowed;  
2787 }  
2788  
2789 .jp-Button:empty {  
2790   padding: 0 !important;  
2791 }  
2792  
2793 .jp-Button.jp-mod-small {  
2794   min-height: 24px;  
2795   min-width: 24px;  
2796   font-size: 12px;  
2797   padding: 0 7px;  
2798 }  
2799  
2800 /* Use our own theme for hover styles */  
2801 .jp-Button.jp-mod-minimal:hover {  
2802   background-color: var(--jp-layout-color2);  
2803 }  
2804  
2805 .jp-Button.jp-mod-minimal {  
2806   background: none;  
2807 }  
2808  
2809 .jp-InputGroup {
```

```
2810 display: block;
2811 position: relative;
2812 }
2813
2814 .jp-InputGroup input {
2815 box-sizing: border-box;
2816 border: none;
2817 border-radius: 0;
2818 background-color: transparent;
2819 color: var(--jp-ui-font-color0);
2820 box-shadow: inset 0 0 0 var(--jp-border-width) var(--jp-input-border-color);
2821 padding-bottom: 0;
2822 padding-top: 0;
2823 padding-left: 10px;
2824 padding-right: 28px;
2825 position: relative;
2826 width: 100%;
2827 -webkit-appearance: none;
2828 -moz-appearance: none;
2829 appearance: none;
2830 font-size: 14px;
2831 font-weight: 400;
2832 height: 30px;
2833 line-height: 30px;
2834 outline: none;
2835 vertical-align: middle;
2836 }
2837
2838 .jp-InputGroup input:focus {
2839 box-shadow: inset 0 0 0 var(--jp-border-width)
2840 var(--jp-input-active-box-shadow-color),
2841 inset 0 0 0 3px var(--jp-input-active-box-shadow-color);
2842 }
2843
2844 .jp-InputGroup input:disabled {
2845 cursor: not-allowed;
2846 resize: block;
2847 background-color: var(--jp-layout-color2);
2848 color: var(--jp-ui-font-color2);
2849 }
2850
2851 .jp-InputGroup input:disabled ~ span {
2852 cursor: not-allowed;
2853 color: var(--jp-ui-font-color2);
2854 }
2855
2856 .jp-InputGroup input::placeholder,
2857 input::placeholder {
2858 color: var(--jp-ui-font-color2);
2859 }
2860
2861 .jp-InputGroupAction {
2862 position: absolute;
2863 bottom: 1px;
2864 right: 0;
2865 padding: 6px;
2866 }
2867
2868 .jp-HTMLSelect.jp-DefaultStyle select {
2869 background-color: initial;
2870 border: none;
2871 border-radius: 0;
2872 box-shadow: none;
2873 color: var(--jp-ui-font-color0);
2874 display: block;
2875 font-size: var(--jp-ui-font-size1);
2876 font-family: var(--jp-ui-font-family);
2877 height: 24px;
2878 line-height: 14px;
2879 padding: 0 25px 0 10px;
2880 text-align: left;
2881 -moz-appearance: none;
2882 -webkit-appearance: none;
2883 }
2884
2885 .jp-HTMLSelect.jp-DefaultStyle select:disabled {
```

```
2886 background-color: var(--jp-layout-color2);  
2887 color: var(--jp-ui-font-color2);  
2888 cursor: not-allowed;  
2889 resize: block;  
2890 }  
2891  
2892 .jp-HTMLSelect.jp-DefaultStyle select:disabled ~ span {  
2893 cursor: not-allowed;  
2894 }  
2895  
2896 /* Use our own theme for hover and option styles */  
2897 /* stylelint-disable-next-line selector-max-type */  
2898 .jp-HTMLSelect.jp-DefaultStyle select:hover,  
2899 .jp-HTMLSelect.jp-DefaultStyle select > option {  
2900 background-color: var(--jp-layout-color2);  
2901 color: var(--jp-ui-font-color0);  
2902 }  
2903  
2904 select {  
2905 box-sizing: border-box;  
2906 }  
2907  
2908 /*****  
2909 | Copyright (c) Jupyter Development Team.  
2910 | Distributed under the terms of the Modified BSD License.  
2911 |-----*/  
2912  
2913 /*****  
2914 | Styles  
2915 |-----*/  
2916  
2917 .jp-StatusBar-Widget {  
2918 display: flex;  
2919 align-items: center;  
2920 background: var(--jp-layout-color2);  
2921 min-height: var(--jp-statusbar-height);  
2922 justify-content: space-between;  
2923 padding: 0 10px;  
2924 }  
2925  
2926 .jp-StatusBar-Left {  
2927 display: flex;  
2928 align-items: center;  
2929 flex-direction: row;  
2930 }  
2931  
2932 .jp-StatusBar-Middle {  
2933 display: flex;  
2934 align-items: center;  
2935 }  
2936  
2937 .jp-StatusBar-Right {  
2938 display: flex;  
2939 align-items: center;  
2940 flex-direction: row-reverse;  
2941 }  
2942  
2943 .jp-StatusBar-Item {  
2944 max-height: var(--jp-statusbar-height);  
2945 margin: 0 2px;  
2946 height: var(--jp-statusbar-height);  
2947 white-space: nowrap;  
2948 text-overflow: ellipsis;  
2949 color: var(--jp-ui-font-color1);  
2950 padding: 0 6px;  
2951 }  
2952  
2953 .jp-mod-highlighted:hover {  
2954 background-color: var(--jp-layout-color3);  
2955 }  
2956  
2957 .jp-mod-clicked {  
2958 background-color: var(--jp-brand-color1);  
2959 }  
2960  
2961 .jp-mod-clicked:hover {
```

```
2962     background-color: var(--jp-brand-color0);  
2963 }  
2964  
2965 .jp-mod-clicked .jp-StatusBar-TextItem {  
2966   color: var(--jp-ui-inverse-font-color1);  
2967 }  
2968  
2969 .jp-StatusBar-HoverItem {  
2970   box-shadow: '0px 4px 4px rgba(0, 0, 0, 0.25)';  
2971 }  
2972  
2973 .jp-StatusBar-TextItem {  
2974   font-size: var(--jp-ui-font-size1);  
2975   font-family: var(--jp-ui-font-family);  
2976   line-height: 24px;  
2977   color: var(--jp-ui-font-color1);  
2978 }  
2979  
2980 .jp-StatusBar-GroupItem {  
2981   display: flex;  
2982   align-items: center;  
2983   flex-direction: row;  
2984 }  
2985  
2986 .jp-Statusbar-ProgressCircle svg {  
2987   display: block;  
2988   margin: 0 auto;  
2989   width: 16px;  
2990   height: 24px;  
2991   align-self: normal;  
2992 }  
2993  
2994 .jp-Statusbar-ProgressCircle path {  
2995   fill: var(--jp-inverse-layout-color3);  
2996 }  
2997  
2998 .jp-Statusbar-ProgressBar-progress-bar {  
2999   height: 10px;  
3000   width: 100px;  
3001   border: solid 0.25px var(--jp-brand-color2);  
3002   border-radius: 3px;  
3003   overflow: hidden;  
3004   align-self: center;  
3005 }  
3006  
3007 .jp-Statusbar-ProgressBar-progress-bar > div {  
3008   background-color: var(--jp-brand-color2);  
3009   background-image: linear-gradient(  
3010     -45deg,  
3011     rgba(255, 255, 255, 0.2) 25%,  
3012     transparent 25%,  
3013     transparent 50%,  
3014     rgba(255, 255, 255, 0.2) 50%,  
3015     rgba(255, 255, 255, 0.2) 75%,  
3016     transparent 75%,  
3017     transparent  
3018   );  
3019   background-size: 40px 40px;  
3020   float: left;  
3021   width: 0%;  
3022   height: 100%;  
3023   font-size: 12px;  
3024   line-height: 14px;  
3025   color: #fff;  
3026   text-align: center;  
3027   animation: jp-Statusbar-ExecutionTime-progress-bar 2s linear infinite;  
3028 }  
3029  
3030 .jp-Statusbar-ProgressBar-progress-bar p {  
3031   color: var(--jp-ui-font-color1);  
3032   font-family: var(--jp-ui-font-family);  
3033   font-size: var(--jp-ui-font-size1);  
3034   line-height: 10px;  
3035   width: 100px;  
3036 }  
3037 }
```

```
3038 @keyframes jp-Statusbar-ExecutionTime-progress-bar {  
3039   0% {  
3040     background-position: 0 0;  
3041   }  
3042  
3043   100% {  
3044     background-position: 40px 40px;  
3045   }  
3046 }  
3047  
3048 /*-----  
3049 | Copyright (c) Jupyter Development Team.  
3050 | Distributed under the terms of the Modified BSD License.  
3051 |-----*/  
3052  
3053 /*-----  
3054 | Variables  
3055 |-----*/  
3056  
3057 :root {  
3058   --jp-private-commandpalette-search-height: 28px;  
3059 }  
3060  
3061 /*-----  
3062 | Overall styles  
3063 |-----*/  
3064  
3065 .lm-CommandPalette {  
3066   padding-bottom: 0;  
3067   color: var(--jp-ui-font-color1);  
3068   background: var(--jp-layout-color1);  
3069  
3070   /* This is needed so that all font sizing of children done in ems is  
3071    * relative to this base size */  
3072   font-size: var(--jp-ui-font-size1);  
3073 }  
3074  
3075 /*-----  
3076 | Modal variant  
3077 |-----*/  
3078  
3079 .jp-ModalCommandPalette {  
3080   position: absolute;  
3081   z-index: 10000;  
3082   top: 38px;  
3083   left: 30%;  
3084   margin: 0;  
3085   padding: 4px;  
3086   width: 40%;  
3087   box-shadow: var(--jp-elevation-z4);  
3088   border-radius: 4px;  
3089   background: var(--jp-layout-color0);  
3090 }  
3091  
3092 .jp-ModalCommandPalette .lm-CommandPalette {  
3093   max-height: 40vh;  
3094 }  
3095  
3096 .jp-ModalCommandPalette .lm-CommandPalette .lm-close-icon::after {  
3097   display: none;  
3098 }  
3099  
3100 .jp-ModalCommandPalette .lm-CommandPalette .lm-CommandPalette-header {  
3101   display: none;  
3102 }  
3103  
3104 .jp-ModalCommandPalette .lm-CommandPalette .lm-CommandPalette-item {  
3105   margin-left: 4px;  
3106   margin-right: 4px;  
3107 }  
3108  
3109 .jp-ModalCommandPalette  
3110   .lm-CommandPalette  
3111   .lm-CommandPalette-item.lm-mod-disabled {  
3112     display: none;  
3113 }
```

```
3114 /*-----  
3115 | Search  
3116 | -----*/  
3118  
3119 .lm-CommandPalette-search {  
3120   padding: 4px;  
3121   background-color: var(--jp-layout-color1);  
3122   z-index: 2;  
3123 }  
3124  
3125 .lm-CommandPalette-wrapper {  
3126   overflow: overlay;  
3127   padding: 0 9px;  
3128   background-color: var(--jp-input-active-background);  
3129   height: 30px;  
3130   box-shadow: inset 0 0 0 var(--jp-border-width) var(--jp-input-border-color);  
3131 }  
3132  
3133 .lm-CommandPalette.lm-mod-focused .lm-CommandPalette-wrapper {  
3134   box-shadow: inset 0 0 0 1px var(--jp-input-active-box-shadow-color),  
3135     inset 0 0 0 3px var(--jp-input-active-box-shadow-color);  
3136 }  
3137  
3138 .jp-SearchIconGroup {  
3139   color: white;  
3140   background-color: var(--jp-brand-color1);  
3141   position: absolute;  
3142   top: 4px;  
3143   right: 4px;  
3144   padding: 5px 5px 1px;  
3145 }  
3146  
3147 .jp-SearchIconGroup svg {  
3148   height: 20px;  
3149   width: 20px;  
3150 }  
3151  
3152 .jp-SearchIconGroup .jp-icon3[fill] {  
3153   fill: var(--jp-layout-color0);  
3154 }  
3155  
3156 .lm-CommandPalette-input {  
3157   background: transparent;  
3158   width: calc(100% - 18px);  
3159   float: left;  
3160   border: none;  
3161   outline: none;  
3162   font-size: var(--jp-ui-font-size1);  
3163   color: var(--jp-ui-font-color0);  
3164   line-height: var(--jp-private-commandpalette-search-height);  
3165 }  
3166  
3167 .lm-CommandPalette-input::-webkit-input-placeholder,  
3168 .lm-CommandPalette-input::-moz-placeholder,  
3169 .lm-CommandPalette-input:-ms-input-placeholder {  
3170   color: var(--jp-ui-font-color2);  
3171   font-size: var(--jp-ui-font-size1);  
3172 }  
3173  
3174 /*-----  
3175 | Results  
3176 | -----*/  
3177  
3178 .lm-CommandPalette-header:first-child {  
3179   margin-top: 0;  
3180 }  
3181  
3182 .lm-CommandPalette-header {  
3183   border-bottom: solid var(--jp-border-width) var(--jp-border-color2);  
3184   color: var(--jp-ui-font-color1);  
3185   cursor: pointer;  
3186   display: flex;  
3187   font-size: var(--jp-ui-font-size0);  
3188   font-weight: 600;  
3189   letter-spacing: 1px;
```

```
3190 margin-top: 8px;
3191 padding: 8px 0 8px 12px;
3192 text-transform: uppercase;
3193 }
3194
3195 .lm-CommandPalette-header.lm-mod-active {
3196 background: var(--jp-layout-color2);
3197 }
3198
3199 .lm-CommandPalette-header > mark {
3200 background-color: transparent;
3201 font-weight: bold;
3202 color: var(--jp-ui-font-color1);
3203 }
3204
3205 .lm-CommandPalette-item {
3206 padding: 4px 12px 4px 4px;
3207 color: var(--jp-ui-font-color1);
3208 font-size: var(--jp-ui-font-size1);
3209 font-weight: 400;
3210 display: flex;
3211 }
3212
3213 .lm-CommandPalette-item.lm-mod-disabled {
3214 color: var(--jp-ui-font-color2);
3215 }
3216
3217 .lm-CommandPalette-item.lm-mod-active {
3218 color: var(--jp-ui-inverse-font-color1);
3219 background: var(--jp-brand-color1);
3220 }
3221
3222 .lm-CommandPalette-item.lm-mod-active .lm-CommandPalette-itemLabel > mark {
3223 color: var(--jp-ui-inverse-font-color0);
3224 }
3225
3226 .lm-CommandPalette-item.lm-mod-active .jp-icon-selectable[fill] {
3227 fill: var(--jp-layout-color0);
3228 }
3229
3230 .lm-CommandPalette-item.lm-mod-active:hover:not(.lm-mod-disabled) {
3231 color: var(--jp-ui-inverse-font-color1);
3232 background: var(--jp-brand-color1);
3233 }
3234
3235 .lm-CommandPalette-item:hover:not(.lm-mod-active):not(.lm-mod-disabled) {
3236 background: var(--jp-layout-color2);
3237 }
3238
3239 .lm-CommandPalette-itemContent {
3240 overflow: hidden;
3241 }
3242
3243 .lm-CommandPalette-itemLabel > mark {
3244 color: var(--jp-ui-font-color0);
3245 background-color: transparent;
3246 font-weight: bold;
3247 }
3248
3249 .lm-CommandPalette-item.lm-mod-disabled mark {
3250 color: var(--jp-ui-font-color2);
3251 }
3252
3253 .lm-CommandPalette-item .lm-CommandPalette-itemIcon {
3254 margin: 0 4px 0 0;
3255 position: relative;
3256 width: 16px;
3257 top: 2px;
3258 flex: 0 0 auto;
3259 }
3260
3261 .lm-CommandPalette-item.lm-mod-disabled .lm-CommandPalette-itemIcon {
3262 opacity: 0.6;
3263 }
3264
3265 .lm-CommandPalette-item .lm-CommandPalette-itemShortcut {
```

```
3266     flex: 0 0 auto;
3267 }
3268
3269 .lm-CommandPalette-itemCaption {
3270   display: none;
3271 }
3272
3273 .lm-CommandPalette-content {
3274   background-color: var(--jp-layout-color1);
3275 }
3276
3277 .lm-CommandPalette-content::empty::after {
3278   content: 'No results';
3279   margin: auto;
3280   margin-top: 20px;
3281   width: 100px;
3282   display: block;
3283   font-size: var(--jp-ui-font-size2);
3284   font-family: var(--jp-ui-font-family);
3285   font-weight: lighter;
3286 }
3287
3288 .lm-CommandPalette-emptyMessage {
3289   text-align: center;
3290   margin-top: 24px;
3291   line-height: 1.32;
3292   padding: 0 8px;
3293   color: var(--jp-content-font-color3);
3294 }
3295
3296 /-----
3297 | Copyright (c) 2014-2017, Jupyter Development Team.
3298 |
3299 | Distributed under the terms of the Modified BSD License.
3300 |-----*/
3301
3302 .jp-Dialog {
3303   position: absolute;
3304   z-index: 10000;
3305   display: flex;
3306   flex-direction: column;
3307   align-items: center;
3308   justify-content: center;
3309   top: 0;
3310   left: 0;
3311   margin: 0;
3312   padding: 0;
3313   width: 100%;
3314   height: 100%;
3315   background: var(--jp-dialog-background);
3316 }
3317
3318 .jp-Dialog-content {
3319   display: flex;
3320   flex-direction: column;
3321   margin-left: auto;
3322   margin-right: auto;
3323   background: var(--jp-layout-color1);
3324   padding: 24px 24px 12px;
3325   min-width: 300px;
3326   min-height: 150px;
3327   max-width: 1000px;
3328   max-height: 500px;
3329   box-sizing: border-box;
3330   box-shadow: var(--jp-elevation-z20);
3331   word-wrap: break-word;
3332   border-radius: var(--jp-border-radius);
3333
3334 /* This is needed so that all font sizing of children done in ems is
3335 * relative to this base size */
3336   font-size: var(--jp-ui-font-size1);
3337   color: var(--jp-ui-font-color1);
3338   resize: both;
3339 }
3340
3341 .jp-Dialog-content.jp-Dialog-content-small {
```

```
3342   max-width: 500px;
3343 }
3344
3345 .jp-Dialog-button {
3346   overflow: visible;
3347 }
3348
3349 button.jp-Dialog-button:focus {
3350   outline: 1px solid var(--jp-brand-color1);
3351   outline-offset: 4px;
3352   -moz-outline-radius: 0;
3353 }
3354
3355 button.jp-Dialog-button:focus::-moz-focus-inner {
3356   border: 0;
3357 }
3358
3359 button.jp-Dialog-button.jp-mod-styled.jp-mod-accept:focus,
3360 button.jp-Dialog-button.jp-mod-styled.jp-mod-warn:focus,
3361 button.jp-Dialog-button.jp-mod-styled.jp-mod-reject:focus {
3362   outline-offset: 4px;
3363   -moz-outline-radius: 0;
3364 }
3365
3366 button.jp-Dialog-button.jp-mod-styled.jp-mod-accept:focus {
3367   outline: 1px solid var(--jp-accept-color-normal, var(--jp-brand-color1));
3368 }
3369
3370 button.jp-Dialog-button.jp-mod-styled.jp-mod-warn:focus {
3371   outline: 1px solid var(--jp-warn-color-normal, var(--jp-error-color1));
3372 }
3373
3374 button.jp-Dialog-button.jp-mod-styled.jp-mod-reject:focus {
3375   outline: 1px solid var(--jp-reject-color-normal, var(--md-grey-600));
3376 }
3377
3378 button.jp-Dialog-close-button {
3379   padding: 0;
3380   height: 100%;
3381   min-width: unset;
3382   min-height: unset;
3383 }
3384
3385 .jp-Dialog-header {
3386   display: flex;
3387   justify-content: space-between;
3388   flex: 0 0 auto;
3389   padding-bottom: 12px;
3390   font-size: var(--jp-ui-font-size3);
3391   font-weight: 400;
3392   color: var(--jp-ui-font-color1);
3393 }
3394
3395 .jp-Dialog-body {
3396   display: flex;
3397   flex-direction: column;
3398   flex: 1 1 auto;
3399   font-size: var(--jp-ui-font-size1);
3400   background: var(--jp-layout-color1);
3401   color: var(--jp-ui-font-color1);
3402   overflow: auto;
3403 }
3404
3405 .jp-Dialog-footer {
3406   display: flex;
3407   flex-direction: row;
3408   justify-content: flex-end;
3409   align-items: center;
3410   flex: 0 0 auto;
3411   margin-left: -12px;
3412   margin-right: -12px;
3413   padding: 12px;
3414 }
3415
3416 .jp-Dialog-checkbox {
3417   padding-right: 5px;
```

```
3418 }
3419
3420 .jp-Dialog-checkbox > input:focus-visible {
3421   outline: 1px solid var(--jp-input-active-border-color);
3422   outline-offset: 1px;
3423 }
3424
3425 .jp-Dialog-spacer {
3426   flex: 1 1 auto;
3427 }
3428
3429 .jp-Dialog-title {
3430   overflow: hidden;
3431   white-space: nowrap;
3432   text-overflow: ellipsis;
3433 }
3434
3435 .jp-Dialog-body > .jp-select-wrapper {
3436   width: 100%;
3437 }
3438
3439 .jp-Dialog-body > button {
3440   padding: 0 16px;
3441 }
3442
3443 .jp-Dialog-body > label {
3444   line-height: 1.4;
3445   color: var(--jp-ui-font-color0);
3446 }
3447
3448 .jp-Dialog-button.jp-mod-styled:not(:last-child) {
3449   margin-right: 12px;
3450 }
3451
3452 /*
3453 * Copyright (c) Jupyter Development Team.
3454 * Distributed under the terms of the Modified BSD License.
3455 */
3456
3457 .jp-Input-Boolean-Dialog {
3458   flex-direction: row-reverse;
3459   align-items: end;
3460   width: 100%;
3461 }
3462
3463 .jp-Input-Boolean-Dialog > label {
3464   flex: 1 1 auto;
3465 }
3466
3467 -----
3468 | Copyright (c) 2014-2016, Jupyter Development Team.
3469 |
3470 | Distributed under the terms of the Modified BSD License.
3471 |-----
3472
3473 .jp-MainAreaWidget > :focus {
3474   outline: none;
3475 }
3476
3477 .jp-MainAreaWidget .jp-MainAreaWidget-error {
3478   padding: 6px;
3479 }
3480
3481 .jp-MainAreaWidget .jp-MainAreaWidget-error > pre {
3482   width: auto;
3483   padding: 10px;
3484   background: var(--jp-error-color3);
3485   border: var(--jp-border-width) solid var(--jp-error-color1);
3486   border-radius: var(--jp-border-radius);
3487   color: var(--jp-ui-font-color1);
3488   font-size: var(--jp-ui-font-size1);
3489   white-space: pre-wrap;
3490   word-wrap: break-word;
3491 }
3492
3493 /*
```

```
3494 * Copyright (c) Jupyter Development Team.  
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3496 */  
3497  
3498 /**
3499 * google-material-color v1.2.6
3500 * https://github.com/danlevan/google-material-color
3501 */
3502 :root {
3503   --md-red-50: #ffebee;
3504   --md-red-100: #ffcdd2;
3505   --md-red-200: #ef9a9a;
3506   --md-red-300: #e57373;
3507   --md-red-400: #ef5350;
3508   --md-red-500: #f44336;
3509   --md-red-600: #e53935;
3510   --md-red-700: #d32f2f;
3511   --md-red-800: #c62828;
3512   --md-red-900: #b71c1c;
3513   --md-red-A100: #ff8a80;
3514   --md-red-A200: #ff5252;
3515   --md-red-A400: #ff1744;
3516   --md-red-A700: #d50000;
3517   --md-pink-50: #fce4ec;
3518   --md-pink-100: #f8bbd0;
3519   --md-pink-200: #f48fb1;
3520   --md-pink-300: #f06292;
3521   --md-pink-400: #ec407a;
3522   --md-pink-500: #e91e63;
3523   --md-pink-600: #d81b60;
3524   --md-pink-700: #c2185b;
3525   --md-pink-800: #ad1457;
3526   --md-pink-900: #880e4f;
3527   --md-pink-A100: #ff80ab;
3528   --md-pink-A200: #ff4081;
3529   --md-pink-A400: #f50057;
3530   --md-pink-A700: #c51162;
3531   --md-purple-50: #f3e5f5;
3532   --md-purple-100: #e1bee7;
3533   --md-purple-200: #ce93d8;
3534   --md-purple-300: #bae8c8;
3535   --md-purple-400: #ab47bc;
3536   --md-purple-500: #9c27b0;
3537   --md-purple-600: #8e24aa;
3538   --md-purple-700: #7b1fa2;
3539   --md-purple-800: #6a1b9a;
3540   --md-purple-900: #4a148c;
3541   --md-purple-A100: #ea80fc;
3542   --md-purple-A200: #e040fb;
3543   --md-purple-A400: #d500f9;
3544   --md-purple-A700: #a0f;
3545   --md-deep-purple-50: #ede7f6;
3546   --md-deep-purple-100: #d1c4e9;
3547   --md-deep-purple-200: #b39ddb;
3548   --md-deep-purple-300: #9575cd;
3549   --md-deep-purple-400: #7e57c2;
3550   --md-deep-purple-500: #673ab7;
3551   --md-deep-purple-600: #5e35b1;
3552   --md-deep-purple-700: #512da8;
3553   --md-deep-purple-800: #4527a0;
3554   --md-deep-purple-900: #311b92;
3555   --md-deep-purple-A100: #b388ff;
3556   --md-deep-purple-A200: #7c4dff;
3557   --md-deep-purple-A400: #651fff;
3558   --md-deep-purple-A700: #6200ea;
3559   --md-indigo-50: #e8eaf6;
3560   --md-indigo-100: #c5cae9;
3561   --md-indigo-200: #9fa8da;
3562   --md-indigo-300: #7986cb;
3563   --md-indigo-400: #5c6bc0;
3564   --md-indigo-500: #3f51b5;
3565   --md-indigo-600: #3949ab;
3566   --md-indigo-700: #303f9f;
3567   --md-indigo-800: #283593;
3568   --md-indigo-900: #1a237e;
3569   --md-indigo-A100: #8c9eff;
```

```
3570 --md-indigo-A200: #536dfe;
3571 --md-indigo-A400: #3d5afe;
3572 --md-indigo-A700: #304ffe;
3573 --md-blue-50: #e3f2fd;
3574 --md-blue-100: #bbdefb;
3575 --md-blue-200: #90caf9;
3576 --md-blue-300: #64b5f6;
3577 --md-blue-400: #42a5f5;
3578 --md-blue-500: #2196f3;
3579 --md-blue-600: #1e88e5;
3580 --md-blue-700: #1976d2;
3581 --md-blue-800: #1565c0;
3582 --md-blue-900: #0d47a1;
3583 --md-blue-A100: #82b1ff;
3584 --md-blue-A200: #448aff;
3585 --md-blue-A400: #2979ff;
3586 --md-blue-A700: #2962ff;
3587 --md-light-blue-50: #e1f5fe;
3588 --md-light-blue-100: #b3e5fc;
3589 --md-light-blue-200: #81d4fa;
3590 --md-light-blue-300: #4fc3f7;
3591 --md-light-blue-400: #29b6f6;
3592 --md-light-blue-500: #03a9f4;
3593 --md-light-blue-600: #039be5;
3594 --md-light-blue-700: #0288d1;
3595 --md-light-blue-800: #0277bd;
3596 --md-light-blue-900: #01579b;
3597 --md-light-blue-A100: #80d8ff;
3598 --md-light-blue-A200: #40c4ff;
3599 --md-light-blue-A400: #00b0ff;
3600 --md-light-blue-A700: #0091ea;
3601 --md-cyan-50: #e0f7fa;
3602 --md-cyan-100: #b2ebf2;
3603 --md-cyan-200: #80deea;
3604 --md-cyan-300: #4dd0e1;
3605 --md-cyan-400: #26c6da;
3606 --md-cyan-500: #00bcd4;
3607 --md-cyan-600: #00acc1;
3608 --md-cyan-700: #0097a7;
3609 --md-cyan-800: #00838f;
3610 --md-cyan-900: #006064;
3611 --md-cyan-A100: #84ffff;
3612 --md-cyan-A200: #18ffff;
3613 --md-cyan-A400: #00e5ff;
3614 --md-cyan-A700: #00b8d4;
3615 --md-teal-50: #e0f2f1;
3616 --md-teal-100: #b2dfdb;
3617 --md-teal-200: #80cbc4;
3618 --md-teal-300: #4db6ac;
3619 --md-teal-400: #26a69a;
3620 --md-teal-500: #009688;
3621 --md-teal-600: #00897b;
3622 --md-teal-700: #00796b;
3623 --md-teal-800: #00695c;
3624 --md-teal-900: #004d40;
3625 --md-teal-A100: #a7ffeb;
3626 --md-teal-A200: #64ffda;
3627 --md-teal-A400: #1de9b6;
3628 --md-teal-A700: #00bfa5;
3629 --md-green-50: #e8f5e9;
3630 --md-green-100: #c8e6c9;
3631 --md-green-200: #a5d6a7;
3632 --md-green-300: #81c784;
3633 --md-green-400: #66bb6a;
3634 --md-green-500: #4caf50;
3635 --md-green-600: #43a047;
3636 --md-green-700: #388e3c;
3637 --md-green-800: #2e7d32;
3638 --md-green-900: #1b5e20;
3639 --md-green-A100: #b9f6ca;
3640 --md-green-A200: #69f0ae;
3641 --md-green-A400: #00e676;
3642 --md-green-A700: #00c853;
3643 --md-light-green-50: #f1f8e9;
3644 --md-light-green-100: #dcedc8;
3645 --md-light-green-200: #c5e1a5;
```

```
3646 --md-light-green-300: #aed581;
3647 --md-light-green-400: #9ccc65;
3648 --md-light-green-500: #8bc34a;
3649 --md-light-green-600: #7cb342;
3650 --md-light-green-700: #689f38;
3651 --md-light-green-800: #558b2f;
3652 --md-light-green-900: #33691e;
3653 --md-light-green-A100: #ccff90;
3654 --md-light-green-A200: #b2ff59;
3655 --md-light-green-A400: #76ff03;
3656 --md-light-green-A700: #64dd17;
3657 --md-lime-50: #f9fbe7;
3658 --md-lime-100: #f0f4c3;
3659 --md-lime-200: #e6ee9c;
3660 --md-lime-300: #dce775;
3661 --md-lime-400: #d4e157;
3662 --md-lime-500: #cdcc39;
3663 --md-lime-600: #c0ca33;
3664 --md-lime-700: #afb42b;
3665 --md-lime-800: #9e9d24;
3666 --md-lime-900: #827717;
3667 --md-lime-A100: #f4ff81;
3668 --md-lime-A200: #efff41;
3669 --md-lime-A400: #c6ff00;
3670 --md-lime-A700: #eaea00;
3671 --md-yellow-50: #ffffde7;
3672 --md-yellow-100: #ffff9c4;
3673 --md-yellow-200: #ffff59d;
3674 --md-yellow-300: #ffff176;
3675 --md-yellow-400: #ffee58;
3676 --md-yellow-500: #ffeb3b;
3677 --md-yellow-600: #fdd835;
3678 --md-yellow-700: #fb02d;
3679 --md-yellow-800: #f9a825;
3680 --md-yellow-900: #f57f17;
3681 --md-yellow-A100: #fffff8d;
3682 --md-yellow-A200: #ff0;
3683 --md-yellow-A400: #ffea00;
3684 --md-yellow-A700: #ffd600;
3685 --md-amber-50: #fff8e1;
3686 --md-amber-100: #ffecb3;
3687 --md-amber-200: #ffe082;
3688 --md-amber-300: #ffd54f;
3689 --md-amber-400: #ffcfa28;
3690 --md-amber-500: #ffc107;
3691 --md-amber-600: #ffb300;
3692 --md-amber-700: #ffa000;
3693 --md-amber-800: #ff8f00;
3694 --md-amber-900: #ff6f00;
3695 --md-amber-A100: #ffe57f;
3696 --md-amber-A200: #ffd740;
3697 --md-amber-A400: #ffc400;
3698 --md-amber-A700: #ffab00;
3699 --md-orange-50: #fff3e0;
3700 --md-orange-100: #ffe0b2;
3701 --md-orange-200: #ffcc80;
3702 --md-orange-300: #ffb74d;
3703 --md-orange-400: #ffa726;
3704 --md-orange-500: #ff9800;
3705 --md-orange-600: #fb8c00;
3706 --md-orange-700: #f57c00;
3707 --md-orange-800: #ef6c00;
3708 --md-orange-900: #e65100;
3709 --md-orange-A100: #ffd180;
3710 --md-orange-A200: #fffab40;
3711 --md-orange-A400: #ff9100;
3712 --md-orange-A700: #ff6d00;
3713 --md-deep-orange-50: #fbe9e7;
3714 --md-deep-orange-100: #ffcccbc;
3715 --md-deep-orange-200: #ffab91;
3716 --md-deep-orange-300: #ff8a65;
3717 --md-deep-orange-400: #ff7043;
3718 --md-deep-orange-500: #ff5722;
3719 --md-deep-orange-600: #f4511e;
3720 --md-deep-orange-700: #e64a19;
3721 --md-deep-orange-800: #d84315;
```

```
3722 --md-deep-orange-900: #bf360c;
3723 --md-deep-orange-A100: #ff9e80;
3724 --md-deep-orange-A200: #ff6e40;
3725 --md-deep-orange-A400: #ff3d00;
3726 --md-deep-orange-A700: #dd2c00;
3727 --md-brown-50: #efebc9;
3728 --md-brown-100: #d7ccc8;
3729 --md-brown-200: #bcaaa4;
3730 --md-brown-300: #a1887f;
3731 --md-brown-400: #8d6e63;
3732 --md-brown-500: #795548;
3733 --md-brown-600: #6d4c41;
3734 --md-brown-700: #5d4037;
3735 --md-brown-800: #4e342e;
3736 --md-brown-900: #3e2723;
3737 --md-grey-50: #fafafa;
3738 --md-grey-100: #f5f5f5;
3739 --md-grey-200: #eeee;
3740 --md-grey-300: #e0e0e0;
3741 --md-grey-400: #bdbdbd;
3742 --md-grey-500: #9e9e9e;
3743 --md-grey-600: #757575;
3744 --md-grey-700: #616161;
3745 --md-grey-800: #424242;
3746 --md-blue-grey-900: #212121;
3747 --md-blue-grey-50: #eceff1;
3748 --md-blue-grey-100: #cf8dc;
3749 --md-blue-grey-200: #b0bec5;
3750 --md-blue-grey-300: #90a4ae;
3751 --md-blue-grey-400: #78909c;
3752 --md-blue-grey-500: #607d8b;
3753 --md-blue-grey-600: #546e7a;
3754 --md-blue-grey-700: #455a64;
3755 --md-blue-grey-800: #37474f;
3756 --md-blue-grey-900: #263238;
3757 }
3758 /*
3759 | Copyright (c) 2014-2017, Jupyter Development Team.
3760 |
3761 |
3762 | Distributed under the terms of the Modified BSD License.
3763 |-----*/
3764 /*
3765 | Copyright (c) Jupyter Development Team.
3766 | Distributed under the terms of the Modified BSD License.
3767 |-----*/
3768 /*
3769 |-----*/
3770 /*
3771 | RenderedText
3772 |-----*/
3773
3774 :root {
3775 /* This is the padding value to fill the gaps between lines containing spans with background color. */
3776 --jp-private-code-span-padding: calc(
3777 (var(--jp-code-line-height) - 1) * var(--jp-code-font-size) / 2
3778 );
3779 }
3780
3781 .jp-RenderedText {
3782 text-align: left;
3783 padding-left: var(--jp-code-padding);
3784 line-height: var(--jp-code-line-height);
3785 font-family: var(--jp-code-font-family);
3786 }
3787
3788 .jp-RenderedText pre,
3789 .jp-RenderedJavaScript pre,
3790 .jp-RenderedHTMLCommon pre {
3791 color: var(--jp-content-font-color1);
3792 font-size: var(--jp-code-font-size);
3793 border: none;
3794 margin: 0;
3795 padding: 0;
3796 }
3797
```

```
3798 .jp-RenderedText pre a:link {  
3799   text-decoration: none;  
3800   color: var(--jp-content-link-color);  
3801 }  
3802  
3803 .jp-RenderedText pre a:hover {  
3804   text-decoration: underline;  
3805   color: var(--jp-content-link-color);  
3806 }  
3807  
3808 .jp-RenderedText pre a:visited {  
3809   text-decoration: none;  
3810   color: var(--jp-content-link-color);  
3811 }  
3812  
3813 /* console foregrounds and backgrounds */  
3814 .jp-RenderedText pre .ansi-black-fg {  
3815   color: #3e424d;  
3816 }  
3817  
3818 .jp-RenderedText pre .ansi-red-fg {  
3819   color: #e75c58;  
3820 }  
3821  
3822 .jp-RenderedText pre .ansi-green-fg {  
3823   color: #00a250;  
3824 }  
3825  
3826 .jp-RenderedText pre .ansi-yellow-fg {  
3827   color: #ddb62b;  
3828 }  
3829  
3830 .jp-RenderedText pre .ansi-blue-fg {  
3831   color: #208ffb;  
3832 }  
3833  
3834 .jp-RenderedText pre .ansi-magenta-fg {  
3835   color: #d160c4;  
3836 }  
3837  
3838 .jp-RenderedText pre .ansi-cyan-fg {  
3839   color: #60c6c8;  
3840 }  
3841  
3842 .jp-RenderedText pre .ansi-white-fg {  
3843   color: #c5c1b4;  
3844 }  
3845  
3846 .jp-RenderedText pre .ansi-black-bg {  
3847   background-color: #3e424d;  
3848   padding: var(--jp-private-code-span-padding) 0;  
3849 }  
3850  
3851 .jp-RenderedText pre .ansi-red-bg {  
3852   background-color: #e75c58;  
3853   padding: var(--jp-private-code-span-padding) 0;  
3854 }  
3855  
3856 .jp-RenderedText pre .ansi-green-bg {  
3857   background-color: #00a250;  
3858   padding: var(--jp-private-code-span-padding) 0;  
3859 }  
3860  
3861 .jp-RenderedText pre .ansi-yellow-bg {  
3862   background-color: #ddb62b;  
3863   padding: var(--jp-private-code-span-padding) 0;  
3864 }  
3865  
3866 .jp-RenderedText pre .ansi-blue-bg {  
3867   background-color: #208ffb;  
3868   padding: var(--jp-private-code-span-padding) 0;  
3869 }  
3870  
3871 .jp-RenderedText pre .ansi-magenta-bg {  
3872   background-color: #d160c4;  
3873   padding: var(--jp-private-code-span-padding) 0;
```

```
3874 }
3875
3876 .jp-RenderedText pre .ansi-cyan-bg {
3877   background-color: #60c6c8;
3878   padding: var(--jp-private-code-span-padding) 0;
3879 }
3880
3881 .jp-RenderedText pre .ansi-white-bg {
3882   background-color: #c5c1b4;
3883   padding: var(--jp-private-code-span-padding) 0;
3884 }
3885
3886 .jp-RenderedText pre .ansi-black-intense-fg {
3887   color: #282c36;
3888 }
3889
3890 .jp-RenderedText pre .ansi-red-intense-fg {
3891   color: #b22b31;
3892 }
3893
3894 .jp-RenderedText pre .ansi-green-intense-fg {
3895   color: #007427;
3896 }
3897
3898 .jp-RenderedText pre .ansi-yellow-intense-fg {
3899   color: #b27d12;
3900 }
3901
3902 .jp-RenderedText pre .ansi-blue-intense-fg {
3903   color: #0065ca;
3904 }
3905
3906 .jp-RenderedText pre .ansi-magenta-intense-fg {
3907   color: #a03196;
3908 }
3909
3910 .jp-RenderedText pre .ansi-cyan-intense-fg {
3911   color: #258f8f;
3912 }
3913
3914 .jp-RenderedText pre .ansi-white-intense-fg {
3915   color: #a1a6b2;
3916 }
3917
3918 .jp-RenderedText pre .ansi-black-intense-bg {
3919   background-color: #282c36;
3920   padding: var(--jp-private-code-span-padding) 0;
3921 }
3922
3923 .jp-RenderedText pre .ansi-red-intense-bg {
3924   background-color: #b22b31;
3925   padding: var(--jp-private-code-span-padding) 0;
3926 }
3927
3928 .jp-RenderedText pre .ansi-green-intense-bg {
3929   background-color: #007427;
3930   padding: var(--jp-private-code-span-padding) 0;
3931 }
3932
3933 .jp-RenderedText pre .ansi-yellow-intense-bg {
3934   background-color: #b27d12;
3935   padding: var(--jp-private-code-span-padding) 0;
3936 }
3937
3938 .jp-RenderedText pre .ansi-blue-intense-bg {
3939   background-color: #0065ca;
3940   padding: var(--jp-private-code-span-padding) 0;
3941 }
3942
3943 .jp-RenderedText pre .ansi-magenta-intense-bg {
3944   background-color: #a03196;
3945   padding: var(--jp-private-code-span-padding) 0;
3946 }
3947
3948 .jp-RenderedText pre .ansi-cyan-intense-bg {
3949   background-color: #258f8f;
```

```
3950 padding: var(--jp-private-code-span-padding) 0;
3951 }
3952
3953 .jp-RenderedText pre .ansi-white-intense-bg {
3954 background-color: #a1a6b2;
3955 padding: var(--jp-private-code-span-padding) 0;
3956 }
3957
3958 .jp-RenderedText pre .ansi-default-inverse-fg {
3959 color: var(--jp-ui-inverse-font-color0);
3960 }
3961
3962 .jp-RenderedText pre .ansi-default-inverse-bg {
3963 background-color: var(--jp-inverse-layout-color0);
3964 padding: var(--jp-private-code-span-padding) 0;
3965 }
3966
3967 .jp-RenderedText pre .ansi-bold {
3968 font-weight: bold;
3969 }
3970
3971 .jp-RenderedText pre .ansi-underline {
3972 text-decoration: underline;
3973 }
3974
3975 .jp-RenderedText[data-mime-type='application/vnd.jupyter.stderr'] {
3976 background: var(--jp-rendermime-error-background);
3977 padding-top: var(--jp-code-padding);
3978 }
3979
3980 /-----
3981 | RenderedLatex
3982 |-----*/
3983
3984 .jp-RenderedLatex {
3985 color: var(--jp-content-font-color1);
3986 font-size: var(--jp-content-font-size1);
3987 line-height: var(--jp-content-line-height);
3988 }
3989
3990 /* Left-justify outputs.*/
3991 .jp-OutputArea-output.jp-RenderedLatex {
3992 padding: var(--jp-code-padding);
3993 text-align: left;
3994 }
3995
3996 /-----
3997 | RenderedHTML
3998 |-----*/
3999
4000 .jp-RenderedHTMLCommon {
4001 color: var(--jp-content-font-color1);
4002 font-family: var(--jp-content-font-family);
4003 font-size: var(--jp-content-font-size1);
4004 line-height: var(--jp-content-line-height);
4005
4006 /* Give a bit more R padding on Markdown text to keep line lengths reasonable */
4007 padding-right: 20px;
4008 }
4009
4010 .jp-RenderedHTMLCommon em {
4011 font-style: italic;
4012 }
4013
4014 .jp-RenderedHTMLCommon strong {
4015 font-weight: bold;
4016 }
4017
4018 .jp-RenderedHTMLCommon u {
4019 text-decoration: underline;
4020 }
4021
4022 .jp-RenderedHTMLCommon a:link {
4023 text-decoration: none;
4024 color: var(--jp-content-link-color);
4025 }
```

```
4026
4027 .jp-RenderedHTMLCommon a:hover {
4028   text-decoration: underline;
4029   color: var(--jp-content-link-color);
4030 }
4031
4032 .jp-RenderedHTMLCommon a:visited {
4033   text-decoration: none;
4034   color: var(--jp-content-link-color);
4035 }
4036
4037 /* Headings */
4038
4039 .jp-RenderedHTMLCommon h1,
4040 .jp-RenderedHTMLCommon h2,
4041 .jp-RenderedHTMLCommon h3,
4042 .jp-RenderedHTMLCommon h4,
4043 .jp-RenderedHTMLCommon h5,
4044 .jp-RenderedHTMLCommon h6 {
4045   line-height: var(--jp-content-heading-line-height);
4046   font-weight: var(--jp-content-heading-font-weight);
4047   font-style: normal;
4048   margin: var(--jp-content-heading-margin-top) 0
4049     var(--jp-content-heading-margin-bottom) 0;
4050 }
4051
4052 .jp-RenderedHTMLCommon h1:first-child,
4053 .jp-RenderedHTMLCommon h2:first-child,
4054 .jp-RenderedHTMLCommon h3:first-child,
4055 .jp-RenderedHTMLCommon h4:first-child,
4056 .jp-RenderedHTMLCommon h5:first-child,
4057 .jp-RenderedHTMLCommon h6:first-child {
4058   margin-top: calc(0.5 * var(--jp-content-heading-margin-top));
4059 }
4060
4061 .jp-RenderedHTMLCommon h1:last-child,
4062 .jp-RenderedHTMLCommon h2:last-child,
4063 .jp-RenderedHTMLCommon h3:last-child,
4064 .jp-RenderedHTMLCommon h4:last-child,
4065 .jp-RenderedHTMLCommon h5:last-child,
4066 .jp-RenderedHTMLCommon h6:last-child {
4067   margin-bottom: calc(0.5 * var(--jp-content-heading-margin-bottom));
4068 }
4069
4070 .jp-RenderedHTMLCommon h1 {
4071   font-size: var(--jp-content-font-size5);
4072 }
4073
4074 .jp-RenderedHTMLCommon h2 {
4075   font-size: var(--jp-content-font-size4);
4076 }
4077
4078 .jp-RenderedHTMLCommon h3 {
4079   font-size: var(--jp-content-font-size3);
4080 }
4081
4082 .jp-RenderedHTMLCommon h4 {
4083   font-size: var(--jp-content-font-size2);
4084 }
4085
4086 .jp-RenderedHTMLCommon h5 {
4087   font-size: var(--jp-content-font-size1);
4088 }
4089
4090 .jp-RenderedHTMLCommon h6 {
4091   font-size: var(--jp-content-font-size0);
4092 }
4093
4094 /* Lists */
4095
4096 /* stylelint-disable selector-max-type, selector-max-compound-selectors */
4097
4098 .jp-RenderedHTMLCommon ul:not(.list-inline),
4099 .jp-RenderedHTMLCommon ol:not(.list-inline) {
4100   padding-left: 2em;
4101 }
```

```
4102
4103 .jp-RenderedHTMLCommon ul {
4104   list-style: disc;
4105 }
4106
4107 .jp-RenderedHTMLCommon ul ul {
4108   list-style: square;
4109 }
4110
4111 .jp-RenderedHTMLCommon ul ul ul {
4112   list-style: circle;
4113 }
4114
4115 .jp-RenderedHTMLCommon ol {
4116   list-style: decimal;
4117 }
4118
4119 .jp-RenderedHTMLCommon ol ol {
4120   list-style: upper-alpha;
4121 }
4122
4123 .jp-RenderedHTMLCommon ol ol ol {
4124   list-style: lower-alpha;
4125 }
4126
4127 .jp-RenderedHTMLCommon ol ol ol ol {
4128   list-style: lower-roman;
4129 }
4130
4131 .jp-RenderedHTMLCommon ol ol ol ol ol {
4132   list-style: decimal;
4133 }
4134
4135 .jp-RenderedHTMLCommon ol,
4136 .jp-RenderedHTMLCommon ul {
4137   margin-bottom: 1em;
4138 }
4139
4140 .jp-RenderedHTMLCommon ul ul,
4141 .jp-RenderedHTMLCommon ul ol,
4142 .jp-RenderedHTMLCommon ol ul,
4143 .jp-RenderedHTMLCommon ol ol {
4144   margin-bottom: 0;
4145 }
4146
4147 /* stylelint-enable selector-max-type, selector-max-compound-selectors */
4148
4149 .jp-RenderedHTMLCommon hr {
4150   color: var(--jp-border-color2);
4151   background-color: var(--jp-border-color1);
4152   margin-top: 1em;
4153   margin-bottom: 1em;
4154 }
4155
4156 .jp-RenderedHTMLCommon > pre {
4157   margin: 1.5em 2em;
4158 }
4159
4160 .jp-RenderedHTMLCommon pre,
4161 .jp-RenderedHTMLCommon code {
4162   border: 0;
4163   background-color: var(--jp-layout-color0);
4164   color: var(--jp-content-font-color1);
4165   font-family: var(--jp-code-font-family);
4166   font-size: inherit;
4167   line-height: var(--jp-code-line-height);
4168   padding: 0;
4169   white-space: pre-wrap;
4170 }
4171
4172 .jp-RenderedHTMLCommon :not(pre) > code {
4173   background-color: var(--jp-layout-color2);
4174   padding: 1px 5px;
4175 }
4176
4177 /* Tables */
```

```
4178 .jp-RenderedHTMLCommon table {
4179   border-collapse: collapse;
4180   border-spacing: 0;
4181   border: none;
4182   color: var(--jp-ui-font-color1);
4183   font-size: var(--jp-ui-font-size1);
4184   table-layout: fixed;
4185   margin-left: auto;
4186   margin-bottom: 1em;
4187   margin-right: auto;
4188 }
4189
4190
4191 .jp-RenderedHTMLCommon thead {
4192   border-bottom: var(--jp-border-width) solid var(--jp-border-color1);
4193   vertical-align: bottom;
4194 }
4195
4196 .jp-RenderedHTMLCommon td,
4197 .jp-RenderedHTMLCommon th,
4198 .jp-RenderedHTMLCommon tr {
4199   vertical-align: middle;
4200   padding: 0.5em;
4201   line-height: normal;
4202   white-space: normal;
4203   max-width: none;
4204   border: none;
4205 }
4206
4207 .jp-RenderedMarkdown.jp-RenderedHTMLCommon td,
4208 .jp-RenderedMarkdown.jp-RenderedHTMLCommon th {
4209   max-width: none;
4210 }
4211
4212 :not(.jp-RenderedMarkdown).jp-RenderedHTMLCommon td,
4213 :not(.jp-RenderedMarkdown).jp-RenderedHTMLCommon th,
4214 :not(.jp-RenderedMarkdown).jp-RenderedHTMLCommon tr {
4215   text-align: right;
4216 }
4217
4218 .jp-RenderedHTMLCommon th {
4219   font-weight: bold;
4220 }
4221
4222 .jp-RenderedHTMLCommon tbody tr:nth-child(odd) {
4223   background: var(--jp-layout-color0);
4224 }
4225
4226 .jp-RenderedHTMLCommon tbody tr:nth-child(even) {
4227   background: var(--jp-rendermime-table-row-background);
4228 }
4229
4230 .jp-RenderedHTMLCommon tbody tr:hover {
4231   background: var(--jp-rendermime-table-row-hover-background);
4232 }
4233
4234 .jp-RenderedHTMLCommon p {
4235   text-align: left;
4236   margin: 0;
4237   margin-bottom: 1em;
4238 }
4239
4240 .jp-RenderedHTMLCommon img {
4241   -moz-force-broken-image-icon: 1;
4242 }
4243
4244 /* Restrict to direct children as other images could be nested in other content. */
4245 .jp-RenderedHTMLCommon > img {
4246   display: block;
4247   margin-left: 0;
4248   margin-right: 0;
4249   margin-bottom: 1em;
4250 }
4251
4252 /* Change color behind transparent images if they need it... */
4253 [data-jp-theme-light='false'] .jp-RenderedImage img.jp-needs-light-background {
```

```
4254 background-color: var(--jp-inverse-layout-color1);  
4255 }  
4256  
4257 [data-jp-theme-light='true'] .jp-RenderedImage img.jp-needs-dark-background {  
4258 background-color: var(--jp-inverse-layout-color1);  
4259 }  
4260  
4261 .jp-RenderedHTMLCommon img,  
4262 .jp-RenderedImage img,  
4263 .jp-RenderedHTMLCommon svg,  
4264 .jp-RenderedSVG svg {  
4265 max-width: 100%;  
4266 height: auto;  
4267 }  
4268  
4269 .jp-RenderedHTMLCommon img.jp-mod-unconfined,  
4270 .jp-RenderedImage img.jp-mod-unconfined,  
4271 .jp-RenderedHTMLCommon svg.jp-mod-unconfined,  
4272 .jp-RenderedSVG svg.jp-mod-unconfined {  
4273 max-width: none;  
4274 }  
4275  
4276 .jp-RenderedHTMLCommon .alert {  
4277 padding: var(--jp-notebook-padding);  
4278 border: var(--jp-border-width) solid transparent;  
4279 border-radius: var(--jp-border-radius);  
4280 margin-bottom: 1em;  
4281 }  
4282  
4283 .jp-RenderedHTMLCommon .alert-info {  
4284 color: var(--jp-info-color0);  
4285 background-color: var(--jp-info-color3);  
4286 border-color: var(--jp-info-color2);  
4287 }  
4288  
4289 .jp-RenderedHTMLCommon .alert-info hr {  
4290 border-color: var(--jp-info-color3);  
4291 }  
4292  
4293 .jp-RenderedHTMLCommon .alert-info > p:last-child,  
4294 .jp-RenderedHTMLCommon .alert-info > ul:last-child {  
4295 margin-bottom: 0;  
4296 }  
4297  
4298 .jp-RenderedHTMLCommon .alert-warning {  
4299 color: var(--jp-warn-color0);  
4300 background-color: var(--jp-warn-color3);  
4301 border-color: var(--jp-warn-color2);  
4302 }  
4303  
4304 .jp-RenderedHTMLCommon .alert-warning hr {  
4305 border-color: var(--jp-warn-color3);  
4306 }  
4307  
4308 .jp-RenderedHTMLCommon .alert-warning > p:last-child,  
4309 .jp-RenderedHTMLCommon .alert-warning > ul:last-child {  
4310 margin-bottom: 0;  
4311 }  
4312  
4313 .jp-RenderedHTMLCommon .alert-success {  
4314 color: var(--jp-success-color0);  
4315 background-color: var(--jp-success-color3);  
4316 border-color: var(--jp-success-color2);  
4317 }  
4318  
4319 .jp-RenderedHTMLCommon .alert-success hr {  
4320 border-color: var(--jp-success-color3);  
4321 }  
4322  
4323 .jp-RenderedHTMLCommon .alert-success > p:last-child,  
4324 .jp-RenderedHTMLCommon .alert-success > ul:last-child {  
4325 margin-bottom: 0;  
4326 }  
4327  
4328 .jp-RenderedHTMLCommon .alert-danger {  
4329 color: var(--jp-error-color0);
```

```
4330 background-color: var(--jp-error-color3);
4331 border-color: var(--jp-error-color2);
4332 }
4333
4334 .jp-RenderedHTMLCommon .alert-danger hr {
4335   border-color: var(--jp-error-color3);
4336 }
4337
4338 .jp-RenderedHTMLCommon .alert-danger > p:last-child,
4339 .jp-RenderedHTMLCommon .alert-danger > ul:last-child {
4340   margin-bottom: 0;
4341 }
4342
4343 .jp-RenderedHTMLCommon blockquote {
4344   margin: 1em 2em;
4345   padding: 0 1em;
4346   border-left: 5px solid var(--jp-border-color2);
4347 }
4348
4349 a.jp-InternalAnchorLink {
4350   visibility: hidden;
4351   margin-left: 8px;
4352   color: var(--md-blue-800);
4353 }
4354
4355 h1:hover .jp-InternalAnchorLink,
4356 h2:hover .jp-InternalAnchorLink,
4357 h3:hover .jp-InternalAnchorLink,
4358 h4:hover .jp-InternalAnchorLink,
4359 h5:hover .jp-InternalAnchorLink,
4360 h6:hover .jp-InternalAnchorLink {
4361   visibility: visible;
4362 }
4363
4364 .jp-RenderedHTMLCommon kbd {
4365   background-color: var(--jp-rendermime-table-row-background);
4366   border: 1px solid var(--jp-border-color0);
4367   border-bottom-color: var(--jp-border-color2);
4368   border-radius: 3px;
4369   box-shadow: inset 0 -1px 0 rgba(0, 0, 0, 0.25);
4370   display: inline-block;
4371   font-size: var(--jp-ui-font-size0);
4372   line-height: 1em;
4373   padding: 0.2em 0.5em;
4374 }
4375
4376 /* Most direct children of .jp-RenderedHTMLCommon have a margin-bottom of 1.0.
4377 * At the bottom of cells this is a bit too much as there is also spacing
4378 * between cells. Going all the way to 0 gets too tight between markdown and
4379 * code cells.
4380 */
4381 .jp-RenderedHTMLCommon > *:last-child {
4382   margin-bottom: 0.5em;
4383 }
4384
4385 /*
4386 * Copyright (c) Jupyter Development Team.
4387 * Distributed under the terms of the Modified BSD License.
4388 */
4389
4390 -----
4391 | Copyright (c) Jupyter Development Team.
4392 | Copyright (c) 2014-2017, PhosphorJS Contributors
4393 |
4394 | Distributed under the terms of the BSD 3-Clause License.
4395 |
4396 | The full license is in the file LICENSE, distributed with this software.
4397 |-----*/
4398
4399 .lm-cursor-backdrop {
4400   position: fixed;
4401   width: 200px;
4402   height: 200px;
4403   margin-top: -100px;
4404   margin-left: -100px;
4405   will-change: transform;
```

```
4406     z-index: 100;
4407 }
4408
4409 .lm-mod-drag-image {
4410   will-change: transform;
4411 }
4412
4413 /*
4414 * Copyright (c) Jupyter Development Team.
4415 * Distributed under the terms of the Modified BSD License.
4416 */
4417
4418 .jp-lineFormSearch {
4419   padding: 4px 12px;
4420   background-color: var(--jp-layout-color2);
4421   box-shadow: var(--jp-toolbar-box-shadow);
4422   z-index: 2;
4423   font-size: var(--jp-ui-font-size1);
4424 }
4425
4426 .jp-lineFormCaption {
4427   font-size: var(--jp-ui-font-size0);
4428   line-height: var(--jp-ui-font-size1);
4429   margin-top: 4px;
4430   color: var(--jp-ui-color0);
4431 }
4432
4433 .jp-baseLineForm {
4434   border: none;
4435   border-radius: 0;
4436   position: absolute;
4437   background-size: 16px;
4438   background-repeat: no-repeat;
4439   background-position: center;
4440   outline: none;
4441 }
4442
4443 .jp-lineFormButtonContainer {
4444   top: 4px;
4445   right: 8px;
4446   height: 24px;
4447   padding: 0 12px;
4448   width: 12px;
4449 }
4450
4451 .jp-lineFormButtonIcon {
4452   top: 0;
4453   right: 0;
4454   background-color: var(--jp-brand-color1);
4455   height: 100%;
4456   width: 100%;
4457   box-sizing: border-box;
4458   padding: 4px 6px;
4459 }
4460
4461 .jp-lineFormButton {
4462   top: 0;
4463   right: 0;
4464   background-color: transparent;
4465   height: 100%;
4466   width: 100%;
4467   box-sizing: border-box;
4468 }
4469
4470 .jp-lineFormWrapper {
4471   overflow: hidden;
4472   padding: 0 8px;
4473   border: 1px solid var(--jp-border-color0);
4474   background-color: var(--jp-input-active-background);
4475   height: 22px;
4476 }
4477
4478 .jp-lineFormWrapperFocusWithin {
4479   border: var(--jp-border-width) solid var(--md-blue-500);
4480   box-shadow: inset 0 0 4px var(--md-blue-300);
4481 }
```

```
4482 .jp-lineFormInput {
4483   background: transparent;
4484   width: 200px;
4485   height: 100%;
4486   border: none;
4487   outline: none;
4488   color: var(--jp-ui-font-color0);
4489   line-height: 28px;
4490 }
4491 }
4492
4493 /*-----
4494 | Copyright (c) 2014-2016, Jupyter Development Team.
4495 |
4496 | Distributed under the terms of the Modified BSD License.
4497 |-----*/
4498
4499 .jp-JSONEditor {
4500   display: flex;
4501   flex-direction: column;
4502   width: 100%;
4503 }
4504
4505 .jp-JSONEditor-host {
4506   flex: 1 1 auto;
4507   border: var(--jp-border-width) solid var(--jp-input-border-color);
4508   border-radius: 0;
4509   background: var(--jp-layout-color0);
4510   min-height: 50px;
4511   padding: 1px;
4512 }
4513
4514 .jp-JSONEditor.jp-mod-error .jp-JSONEditor-host {
4515   border-color: red;
4516   outline-color: red;
4517 }
4518
4519 .jp-JSONEditor-header {
4520   display: flex;
4521   flex: 1 0 auto;
4522   padding: 0 0 0 12px;
4523 }
4524
4525 .jp-JSONEditor-header label {
4526   flex: 0 0 auto;
4527 }
4528
4529 .jp-JSONEditor-commitButton {
4530   height: 16px;
4531   width: 16px;
4532   background-size: 18px;
4533   background-repeat: no-repeat;
4534   background-position: center;
4535 }
4536
4537 .jp-JSONEditor-host.jp-mod-focused {
4538   background-color: var(--jp-input-active-background);
4539   border: 1px solid var(--jp-input-active-border-color);
4540   box-shadow: var(--jp-input-box-shadow);
4541 }
4542
4543 .jp-Editor.jp-mod-dropTarget {
4544   border: var(--jp-border-width) solid var(--jp-input-active-border-color);
4545   box-shadow: var(--jp-input-box-shadow);
4546 }
4547
4548 /*-----
4549 | Copyright (c) Jupyter Development Team.
4550 | Distributed under the terms of the Modified BSD License.
4551 |-----*/
4552 .jp-DocumentSearch-input {
4553   border: none;
4554   outline: none;
4555   color: var(--jp-ui-font-color0);
4556   font-size: var(--jp-ui-font-size1);
4557   background-color: var(--jp-layout-color0);
```

```
4558 font-family: var(--jp-ui-font-family);  
4559 padding: 2px 1px;  
4560 resize: none;  
4561 }  
4562  
4563 .jp-DocumentSearch-overlay {  
4564 position: absolute;  
4565 background-color: var(--jp-toolbar-background);  
4566 border-bottom: var(--jp-border-width) solid var(--jp-toolbar-border-color);  
4567 border-left: var(--jp-border-width) solid var(--jp-toolbar-border-color);  
4568 top: 0;  
4569 right: 0;  
4570 z-index: 7;  
4571 min-width: 405px;  
4572 padding: 2px;  
4573 font-size: var(--jp-ui-font-size1);  
4574  
4575 --jp-private-document-search-button-height: 20px;  
4576 }  
4577  
4578 .jp-DocumentSearch-overlay button {  
4579 background-color: var(--jp-toolbar-background);  
4580 outline: 0;  
4581 }  
4582  
4583 .jp-DocumentSearch-overlay button:hover {  
4584 background-color: var(--jp-layout-color2);  
4585 }  
4586  
4587 .jp-DocumentSearch-overlay button:active {  
4588 background-color: var(--jp-layout-color3);  
4589 }  
4590  
4591 .jp-DocumentSearch-overlay-row {  
4592 display: flex;  
4593 align-items: center;  
4594 margin-bottom: 2px;  
4595 }  
4596  
4597 .jp-DocumentSearch-button-content {  
4598 display: inline-block;  
4599 cursor: pointer;  
4600 box-sizing: border-box;  
4601 width: 100%;  
4602 height: 100%;  
4603 }  
4604  
4605 .jp-DocumentSearch-button-content svg {  
4606 width: 100%;  
4607 height: 100%;  
4608 }  
4609  
4610 .jp-DocumentSearch-input-wrapper {  
4611 border: var(--jp-border-width) solid var(--jp-border-color0);  
4612 display: flex;  
4613 background-color: var(--jp-layout-color0);  
4614 margin: 2px;  
4615 }  
4616  
4617 .jp-DocumentSearch-input-wrapper:focus-within {  
4618 border-color: var(--jp-cell-editor-active-border-color);  
4619 }  
4620  
4621 .jp-DocumentSearch-toggle-wrapper,  
4622 .jp-DocumentSearch-button-wrapper {  
4623 all: initial;  
4624 overflow: hidden;  
4625 display: inline-block;  
4626 border: none;  
4627 box-sizing: border-box;  
4628 }  
4629  
4630 .jp-DocumentSearch-toggle-wrapper {  
4631 width: 14px;  
4632 height: 14px;  
4633 }
```

```
4634
4635 .jp-DocumentSearch-button-wrapper {
4636   width: var(--jp-private-document-search-button-height);
4637   height: var(--jp-private-document-search-button-height);
4638 }
4639
4640 .jp-DocumentSearch-toggle-wrapper,
4641 .jp-DocumentSearch-button-wrapper:focus {
4642   outline: var(--jp-border-width) solid
4643   var(--jp-cell-editor-active-border-color);
4644   outline-offset: -1px;
4645 }
4646
4647 .jp-DocumentSearch-toggle-wrapper,
4648 .jp-DocumentSearch-button-wrapper,
4649 .jp-DocumentSearch-button-content:focus {
4650   outline: none;
4651 }
4652
4653 .jp-DocumentSearch-toggle-placeholder {
4654   width: 5px;
4655 }
4656
4657 .jp-DocumentSearch-input-button::before {
4658   display: block;
4659   padding-top: 100%;
4660 }
4661
4662 .jp-DocumentSearch-input-button-off {
4663   opacity: var(--jp-search-toggle-off-opacity);
4664 }
4665
4666 .jp-DocumentSearch-input-button-off:hover {
4667   opacity: var(--jp-search-toggle-hover-opacity);
4668 }
4669
4670 .jp-DocumentSearch-input-button-on {
4671   opacity: var(--jp-search-toggle-on-opacity);
4672 }
4673
4674 .jp-DocumentSearch-index-counter {
4675   padding-left: 10px;
4676   padding-right: 10px;
4677   user-select: none;
4678   min-width: 35px;
4679   display: inline-block;
4680 }
4681
4682 .jp-DocumentSearch-up-down-wrapper {
4683   display: inline-block;
4684   padding-right: 2px;
4685   margin-left: auto;
4686   white-space: nowrap;
4687 }
4688
4689 .jp-DocumentSearch-spacer {
4690   margin-left: auto;
4691 }
4692
4693 .jp-DocumentSearch-up-down-wrapper button {
4694   outline: 0;
4695   border: none;
4696   width: var(--jp-private-document-search-button-height);
4697   height: var(--jp-private-document-search-button-height);
4698   vertical-align: middle;
4699   margin: 1px 5px 2px;
4700 }
4701
4702 .jp-DocumentSearch-up-down-button:hover {
4703   background-color: var(--jp-layout-color2);
4704 }
4705
4706 .jp-DocumentSearch-up-down-button:active {
4707   background-color: var(--jp-layout-color3);
4708 }
4709
```

```
4710 .jp-DocumentSearch-filter-button {  
4711   border-radius: var(--jp-border-radius);  
4712 }  
4713  
4714 .jp-DocumentSearch-filter-button:hover {  
4715   background-color: var(--jp-layout-color2);  
4716 }  
4717  
4718 .jp-DocumentSearch-filter-button-enabled {  
4719   background-color: var(--jp-layout-color2);  
4720 }  
4721  
4722 .jp-DocumentSearch-filter-button-enabled:hover {  
4723   background-color: var(--jp-layout-color3);  
4724 }  
4725  
4726 .jp-DocumentSearch-search-options {  
4727   padding: 0 8px;  
4728   margin-left: 3px;  
4729   width: 100%;  
4730   display: grid;  
4731   justify-content: start;  
4732   grid-template-columns: 1fr 1fr;  
4733   align-items: center;  
4734   justify-items: stretch;  
4735 }  
4736  
4737 .jp-DocumentSearch-search-filter-disabled {  
4738   color: var(--jp-ui-font-color2);  
4739 }  
4740  
4741 .jp-DocumentSearch-search-filter {  
4742   display: flex;  
4743   align-items: center;  
4744   user-select: none;  
4745 }  
4746  
4747 .jp-DocumentSearch-regex-error {  
4748   color: var(--jp-error-color0);  
4749 }  
4750  
4751 .jp-DocumentSearch-replace-button-wrapper {  
4752   overflow: hidden;  
4753   display: inline-block;  
4754   box-sizing: border-box;  
4755   border: var(--jp-border-width) solid var(--jp-border-color0);  
4756   margin: auto 2px;  
4757   padding: 1px 4px;  
4758   height: calc(var(--jp-private-document-search-button-height) + 2px);  
4759 }  
4760  
4761 .jp-DocumentSearch-replace-button-wrapper:focus {  
4762   border: var(--jp-border-width) solid var(--jp-cell-editor-active-border-color);  
4763 }  
4764  
4765 .jp-DocumentSearch-replace-button {  
4766   display: inline-block;  
4767   text-align: center;  
4768   cursor: pointer;  
4769   box-sizing: border-box;  
4770   color: var(--jp-ui-font-color1);  
4771  
4772   /* height - 2 * (padding of wrapper) */  
4773   line-height: calc(var(--jp-private-document-search-button-height) - 2px);  
4774   width: 100%;  
4775   height: 100%;  
4776 }  
4777  
4778 .jp-DocumentSearch-replace-button:focus {  
4779   outline: none;  
4780 }  
4781  
4782 .jp-DocumentSearch-replace-wrapper-class {  
4783   margin-left: 14px;  
4784   display: flex;  
4785 }
```

```
4786 .jp-DocumentSearch-replace-toggle {
4787   border: none;
4788   background-color: var(--jp-toolbar-background);
4789   border-radius: var(--jp-border-radius);
4790 }
4791 }
4792
4793 .jp-DocumentSearch-replace-toggle:hover {
4794   background-color: var(--jp-layout-color2);
4795 }
4796
4797 /*-----
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4800 |-----*/
4801
4802 .cm-editor {
4803   line-height: var(--jp-code-line-height);
4804   font-size: var(--jp-code-font-size);
4805   font-family: var(--jp-code-font-family);
4806   border: 0;
4807   border-radius: 0;
4808   height: auto;
4809
4810   /* Changed to auto to autogrow */
4811 }
4812
4813 .cm-editor pre {
4814   padding: 0 var(--jp-code-padding);
4815 }
4816
4817 .jp-CodeMirrorEditor[data-type='inline'] .cm-dialog {
4818   background-color: var(--jp-layout-color0);
4819   color: var(--jp-content-font-color1);
4820 }
4821
4822 .jp-CodeMirrorEditor {
4823   cursor: text;
4824 }
4825
4826 /* When zoomed out 67% and 33% on a screen of 1440 width x 900 height */
4827 @media screen and (min-width: 2138px) and (max-width: 4319px) {
4828   .jp-CodeMirrorEditor[data-type='inline'] .cm-cursor {
4829     border-left: var(--jp-code-cursor-width1) solid
4830       var(--jp-editor-cursor-color);
4831   }
4832 }
4833
4834 /* When zoomed out less than 33% */
4835 @media screen and (min-width: 4320px) {
4836   .jp-CodeMirrorEditor[data-type='inline'] .cm-cursor {
4837     border-left: var(--jp-code-cursor-width2) solid
4838       var(--jp-editor-cursor-color);
4839   }
4840 }
4841
4842 .cm-editor.jp-mod-readOnly .cm-cursor {
4843   display: none;
4844 }
4845
4846 .jp-CollaboratorCursor {
4847   border-left: 5px solid transparent;
4848   border-right: 5px solid transparent;
4849   border-top: none;
4850   border-bottom: 3px solid;
4851   background-clip: content-box;
4852   margin-left: -5px;
4853   margin-right: -5px;
4854 }
4855
4856 .cm-searching,
4857 .cm-searching span {
4858   /* `cm-searching span` : we need to override syntax highlighting */
4859   background-color: var(--jp-search-unselected-match-background-color);
4860   color: var(--jp-search-unselected-match-color);
4861 }
```

```
4862  
4863 .cm-searching::selection,  
4864 .cm-searching span::selection {  
4865 background-color: var(--jp-search-unselected-match-background-color);  
4866 color: var(--jp-search-unselected-match-color);  
4867 }  
4868  
4869 .jp-current-match > .cm-searching,  
4870 .jp-current-match > .cm-searching span,  
4871 .cm-searching > .jp-current-match,  
4872 .cm-searching > .jp-current-match span {  
4873 background-color: var(--jp-search-selected-match-background-color);  
4874 color: var(--jp-search-selected-match-color);  
4875 }  
4876  
4877 .jp-current-match > .cm-searching::selection,  
4878 .cm-searching > .jp-current-match::selection,  
4879 .jp-current-match > .cm-searching span::selection {  
4880 background-color: var(--jp-search-selected-match-background-color);  
4881 color: var(--jp-search-selected-match-color);  
4882 }  
4883  
4884 .cm-trailingspace {  
4885 background-image: url(data:image/png;base64,iVBORw0KGgoAAAANSUhEUgAAAAgAAAAFCAYAAAB4ka1VAAASe1EQVQIHQGlAFr/AAAAAAAAAAAAAAA  
AAAAAAA7+r3zKmT0/+pk9P/7+r3zAAAAAAAABAAAAAAA60PzM+/q9wAAAAAA60PzMwAAAAAAAAGAAAAAAAAGR8NiRQaCgAZIA0AGR8NiQAAAAAAA  
AAAAAAAQyoYJ/SY80UAAAASUVORK5CYII=);  
4886 background-position: center left;  
4887 background-repeat: repeat-x;  
4888 }  
4889  
4890 .jp-CollaboratorCursor-hover {  
4891 position: absolute;  
4892 z-index: 1;  
4893 transform: translateX(-50%);  
4894 color: white;  
4895 border-radius: 3px;  
4896 padding-left: 4px;  
4897 padding-right: 4px;  
4898 padding-top: 1px;  
4899 padding-bottom: 1px;  
4900 text-align: center;  
4901 font-size: var(--jp-ui-font-size1);  
4902 white-space: nowrap;  
4903 }  
4904  
4905 .jp-CodeMirror-ruler {  
4906 border-left: 1px dashed var(--jp-border-color2);  
4907 }  
4908  
4909 /* Styles for shared cursors (remote cursor locations and selected ranges) */  
4910 .jp-CodeMirrorEditor .cm-ySelectionCaret {  
4911 position: relative;  
4912 border-left: 1px solid black;  
4913 margin-left: -1px;  
4914 margin-right: -1px;  
4915 box-sizing: border-box;  
4916 }  
4917  
4918 .jp-CodeMirrorEditor .cm-ySelectionCaret > .cm-ySelectionInfo {  
4919 white-space: nowrap;  
4920 position: absolute;  
4921 top: -1.15em;  
4922 padding-bottom: 0.05em;  
4923 left: -1px;  
4924 font-size: 0.95em;  
4925 font-family: var(--jp-ui-font-family);  
4926 font-weight: bold;  
4927 line-height: normal;  
4928 user-select: none;  
4929 color: white;  
4930 padding-left: 2px;  
4931 padding-right: 2px;  
4932 z-index: 101;  
4933 transition: opacity 0.3s ease-in-out;  
4934 }  
4935
```

```
4936 .jp-CodeMirrorEditor .cm-ySelectionInfo {  
4937   transition-delay: 0.7s;  
4938   opacity: 0;  
4939 }  
4940  
4941 .jp-CodeMirrorEditor .cm-ySelectionCaret:hover > .cm-ySelectionInfo {  
4942   opacity: 1;  
4943   transition-delay: 0s;  
4944 }  
4945  
4946 /*-----  
4947 | Copyright (c) Jupyter Development Team.  
4948 | Distributed under the terms of the Modified BSD License.  
4949 |-----*/  
4950  
4951 .jp-MimeDocument {  
4952   outline: none;  
4953 }  
4954  
4955 /*-----  
4956 | Copyright (c) Jupyter Development Team.  
4957 | Distributed under the terms of the Modified BSD License.  
4958 |-----*/  
4959  
4960 /*-----  
4961 | Variables  
4962 |-----*/  
4963  
4964 :root {  
4965   --jp-private-filebrowser-button-height: 28px;  
4966   --jp-private-filebrowser-button-width: 48px;  
4967 }  
4968  
4969 /*-----  
4970 | Copyright (c) Jupyter Development Team.  
4971 | Distributed under the terms of the Modified BSD License.  
4972 |-----*/  
4973  
4974 .jp-FileBrowser .jp-SidePanel-content {  
4975   display: flex;  
4976   flex-direction: column;  
4977 }  
4978  
4979 .jp-FileBrowser-toolbar.jp-Toolbar {  
4980   flex-wrap: wrap;  
4981   row-gap: 12px;  
4982   border-bottom: none;  
4983   height: auto;  
4984   margin: 8px 12px 0;  
4985   box-shadow: none;  
4986   padding: 0;  
4987   justify-content: flex-start;  
4988 }  
4989  
4990 .jp-FileBrowser-Panel {  
4991   flex: 1 1 auto;  
4992   display: flex;  
4993   flex-direction: column;  
4994 }  
4995  
4996 .jp-Breadcrumbs {  
4997   flex: 0 0 auto;  
4998   margin: 8px 12px;  
4999 }  
5000  
5001 .jp-Breadcrumbs-item {  
5002   margin: 0 2px;  
5003   padding: 0 2px;  
5004   border-radius: var(--jp-border-radius);  
5005   cursor: pointer;  
5006 }  
5007  
5008 .jp-Breadcrumbs-item:hover {  
5009   background-color: var(--jp-layout-color2);  
5010 }  
5011
```

```
5012 .jp-BreadCrumbs-item:first-child {  
5013   margin-left: 0;  
5014 }  
5015  
5016 .jp-BreadCrumbs-item.jp-mod-dropTarget {  
5017   background-color: var(--jp-brand-color2);  
5018   opacity: 0.7;  
5019 }  
5020  
5021 /*-----  
| Buttons  
5023 |-----*/  
5024  
5025 .jp-FileBrowser-toolbar > .jp-Toolbar-item {  
5026   flex: 0 0 auto;  
5027   padding-left: 0;  
5028   padding-right: 2px;  
5029   align-items: center;  
5030   height: unset;  
5031 }  
5032  
5033 .jp-FileBrowser-toolbar > .jp-Toolbar-item .jp-ToolbarButtonComponent {  
5034   width: 40px;  
5035 }  
5036  
5037 /*-----  
| Other styles  
5039 |-----*/  
5040  
5041 .jp-FileDialog.jp-mod-conflict input {  
5042   color: var(--jp-error-color1);  
5043 }  
5044  
5045 .jp-FileDialog .jp-new-name-title {  
5046   margin-top: 12px;  
5047 }  
5048  
5049 .jp-LastModified-hidden {  
5050   display: none;  
5051 }  
5052  
5053 .jp-FileSize-hidden {  
5054   display: none;  
5055 }  
5056  
5057 .jp-FileBrowser .lm-AccordionPanel > h3:first-child {  
5058   display: none;  
5059 }  
5060  
5061 /*-----  
| DirListing  
5063 |-----*/  
5064  
5065 .jp-DirListing {  
5066   flex: 1 1 auto;  
5067   display: flex;  
5068   flex-direction: column;  
5069   outline: 0;  
5070 }  
5071  
5072 .jp-DirListing-header {  
5073   flex: 0 0 auto;  
5074   display: flex;  
5075   flex-direction: row;  
5076   align-items: center;  
5077   overflow: hidden;  
5078   border-top: var(--jp-border-width) solid var(--jp-border-color2);  
5079   border-bottom: var(--jp-border-width) solid var(--jp-border-color1);  
5080   box-shadow: var(--jp-toolbar-box-shadow);  
5081   z-index: 2;  
5082 }  
5083  
5084 .jp-DirListing-headerItem {  
5085   padding: 4px 12px 2px;  
5086   font-weight: 500;  
5087 }
```

```
5088
5089 .jp-DirListing-headerItem:hover {
5090   background: var(--jp-layout-color2);
5091 }
5092
5093 .jp-DirListing-headerItem.jp-id-name {
5094   flex: 1 0 84px;
5095 }
5096
5097 .jp-DirListing-headerItem.jp-id-modified {
5098   flex: 0 0 112px;
5099   border-left: var(--jp-border-width) solid var(--jp-border-color2);
5100   text-align: right;
5101 }
5102
5103 .jp-DirListing-headerItem.jp-id-filename {
5104   flex: 0 0 75px;
5105   border-left: var(--jp-border-width) solid var(--jp-border-color2);
5106   text-align: right;
5107 }
5108
5109 .jp-id-narrow {
5110   display: none;
5111   flex: 0 0 5px;
5112   padding: 4px;
5113   border-left: var(--jp-border-width) solid var(--jp-border-color2);
5114   text-align: right;
5115   color: var(--jp-border-color2);
5116 }
5117
5118 .jp-DirListing-narrow .jp-id-narrow {
5119   display: block;
5120 }
5121
5122 .jp-DirListing-narrow .jp-id-modified,
5123 .jp-DirListing-narrow .jp-DirListing-itemModified {
5124   display: none;
5125 }
5126
5127 .jp-DirListing-headerItem.jp-mod-selected {
5128   font-weight: 600;
5129 }
5130
5131 /* increase specificity to override bundled default */
5132 .jp-DirListing-content {
5133   flex: 1 1 auto;
5134   margin: 0;
5135   padding: 0;
5136   list-style-type: none;
5137   overflow: auto;
5138   background-color: var(--jp-layout-color1);
5139 }
5140
5141 .jp-DirListing-content mark {
5142   color: var(--jp-ui-font-color0);
5143   background-color: transparent;
5144   font-weight: bold;
5145 }
5146
5147 .jp-DirListing-content .jp-DirListing-item.jp-mod-selected mark {
5148   color: var(--jp-ui-inverse-font-color0);
5149 }
5150
5151 /* Style the directory listing content when a user drops a file to upload */
5152 .jp-DirListing.jp-mod-native-drop .jp-DirListing-content {
5153   outline: 5px dashed rgba(128, 128, 128, 0.5);
5154   outline-offset: -10px;
5155   cursor: copy;
5156 }
5157
5158 .jp-DirListing-item {
5159   display: flex;
5160   flex-direction: row;
5161   align-items: center;
5162   padding: 4px 12px;
5163   -webkit-user-select: none;
```

```
5164     -moz-user-select: none;
5165     -ms-user-select: none;
5166     user-select: none;
5167 }
5168
5169 .jp-DirListing-checkboxWrapper {
5170   /* Increases hit area of checkbox. */
5171   padding: 4px;
5172 }
5173
5174 .jp-DirListing-header
5175   .jp-DirListing-checkboxWrapper
5176   + .jp-DirListing-headerItem {
5177     padding-left: 4px;
5178 }
5179
5180 .jp-DirListing-content .jp-DirListing-checkboxWrapper {
5181   position: relative;
5182   left: -4px;
5183   margin: -4px 0 -4px -8px;
5184 }
5185
5186 .jp-DirListing-checkboxWrapper.jp-mod-visible {
5187   visibility: visible;
5188 }
5189
5190 /* For devices that support hovering, hide checkboxes until hovered, selected...
5191 */
5192 @media (hover: hover) {
5193   .jp-DirListing-checkboxWrapper {
5194     visibility: hidden;
5195   }
5196
5197   .jp-DirListing-item:hover .jp-DirListing-checkboxWrapper,
5198   .jp-DirListing-item.jp-mod-selected .jp-DirListing-checkboxWrapper {
5199     visibility: visible;
5200   }
5201 }
5202
5203 .jp-DirListing-item[data-is-dot] {
5204   opacity: 75%;
5205 }
5206
5207 .jp-DirListing-item.jp-mod-selected {
5208   color: var(--jp-ui-inverse-font-color1);
5209   background: var(--jp-brand-color1);
5210 }
5211
5212 .jp-DirListing-item.jp-mod-dropTarget {
5213   background: var(--jp-brand-color3);
5214 }
5215
5216 .jp-DirListing-item:hover:not(.jp-mod-selected) {
5217   background: var(--jp-layout-color2);
5218 }
5219
5220 .jp-DirListing-itemIcon {
5221   flex: 0 0 20px;
5222   margin-right: 4px;
5223 }
5224
5225 .jp-DirListing-itemText {
5226   flex: 1 0 64px;
5227   white-space: nowrap;
5228   overflow: hidden;
5229   text-overflow: ellipsis;
5230   user-select: none;
5231 }
5232
5233 .jp-DirListing-itemText:focus {
5234   outline-width: 2px;
5235   outline-color: var(--jp-inverse-layout-color1);
5236   outline-style: solid;
5237   outline-offset: 1px;
5238 }
5239 }
```

```
5240 .jp-DirListing-item.jp-mod-selected .jp-DirListing-itemText:focus {
5241   outline-color: var(--jp-layout-color1);
5242 }
5243
5244 .jp-DirListing-itemModified {
5245   flex: 0 0 125px;
5246   text-align: right;
5247 }
5248
5249 .jp-DirListing-itemFileSize {
5250   flex: 0 0 90px;
5251   text-align: right;
5252 }
5253
5254 .jp-DirListing-editor {
5255   flex: 1 0 64px;
5256   outline: none;
5257   border: none;
5258   color: var(--jp-ui-font-color1);
5259   background-color: var(--jp-layout-color1);
5260 }
5261
5262 .jp-DirListing-item.jp-mod-running .jp-DirListing-itemIcon::before {
5263   color: var(--jp-success-color1);
5264   content: '\25CF';
5265   font-size: 8px;
5266   position: absolute;
5267   left: -8px;
5268 }
5269
5270 .jp-DirListing-item.jp-mod-running.jp-mod-selected
5271   .jp-DirListing-itemIcon::before {
5272     color: var(--jp-ui-inverse-font-color1);
5273   }
5274
5275 .jp-DirListing-item.lm-mod-drag-image,
5276 .jp-DirListing-item.jp-mod-selected.lm-mod-drag-image {
5277   font-size: var(--jp-ui-font-size1);
5278   padding-left: 4px;
5279   margin-left: 4px;
5280   width: 160px;
5281   background-color: var(--jp-ui-inverse-font-color2);
5282   box-shadow: var(--jp-elevation-z2);
5283   border-radius: 0;
5284   color: var(--jp-ui-font-color1);
5285   transform: translateX(-40%) translateY(-58%);
5286 }
5287
5288 .jp-Document {
5289   min-width: 120px;
5290   min-height: 120px;
5291   outline: none;
5292 }
5293
5294 -----
5295 | Copyright (c) Jupyter Development Team.
5296 | Distributed under the terms of the Modified BSD License.
5297 |-----*/
5298
5299 -----
5300 | Main OutputArea
5301 | OutputArea has a list of Outputs
5302 |-----*/
5303
5304 .jp-OutputArea {
5305   overflow-y: auto;
5306 }
5307
5308 .jp-OutputArea-child {
5309   display: table;
5310   table-layout: fixed;
5311   width: 100%;
5312   overflow: hidden;
5313 }
5314
5315 .jp-OutputPrompt {
```

```
5316 width: var(--jp-cell-prompt-width);
5317 color: var(--jp-cell-outprompt-font-color);
5318 font-family: var(--jp-cell-prompt-font-family);
5319 padding: var(--jp-code-padding);
5320 letter-spacing: var(--jp-cell-prompt-letter-spacing);
5321 line-height: var(--jp-code-line-height);
5322 font-size: var(--jp-code-font-size);
5323 border: var(--jp-border-width) solid transparent;
5324 opacity: var(--jp-cell-prompt-opacity);
5325
5326 /* Right align prompt text, don't wrap to handle large prompt numbers */
5327 text-align: right;
5328 white-space: nowrap;
5329 overflow: hidden;
5330 text-overflow: ellipsis;
5331
5332 /* Disable text selection */
5333 -webkit-user-select: none;
5334 -moz-user-select: none;
5335 -ms-user-select: none;
5336 user-select: none;
5337 }
5338
5339 .jp-OutputArea-prompt {
5340 display: table-cell;
5341 vertical-align: top;
5342 }
5343
5344 .jp-OutputArea-output {
5345 display: table-cell;
5346 width: 100%;
5347 height: auto;
5348 overflow: auto;
5349 user-select: text;
5350 -moz-user-select: text;
5351 -webkit-user-select: text;
5352 -ms-user-select: text;
5353 }
5354
5355 .jp-OutputArea .jp-RenderedText {
5356 padding-left: 1ch;
5357 }
5358
5359 /**
5360 * Prompt overlay.
5361 */
5362
5363 .jp-OutputArea-promptOverlay {
5364 position: absolute;
5365 top: 0;
5366 width: var(--jp-cell-prompt-width);
5367 height: 100%;
5368 opacity: 0.5;
5369 }
5370
5371 .jp-OutputArea-promptOverlay:hover {
5372 background: var(--jp-layout-color2);
5373 box-shadow: inset 0 0 1px var(--jp-inverse-layout-color0);
5374 cursor: zoom-out;
5375 }
5376
5377 .jp-mod-outputsScrolled .jp-OutputArea-promptOverlay:hover {
5378 cursor: zoom-in;
5379 }
5380
5381 /**
5382 * Isolated output.
5383 */
5384 .jp-OutputArea-output.jp-mod-isolated {
5385 width: 100%;
5386 display: block;
5387 }
5388
5389 /*
5390 When drag events occur, `lm-mod-override-cursor` is added to the body.
5391 Because iframes steal all cursor events, the following two rules are necessary
```

```
5392 to suppress pointer events while resize drags are occurring. There may be a
5393 better solution to this problem.
5394 */
5395 body.lm-mod-override-cursor .jp-OutputArea-output.jp-mod-isolated {
5396   position: relative;
5397 }
5398
5399 body.lm-mod-override-cursor .jp-OutputArea-output.jp-mod-isolated::before {
5400   content: '';
5401   position: absolute;
5402   top: 0;
5403   left: 0;
5404   right: 0;
5405   bottom: 0;
5406   background: transparent;
5407 }
5408
5409 /* pre */
5410
5411 .jp-OutputArea-output pre {
5412   border: none;
5413   margin: 0;
5414   padding: 0;
5415   overflow-x: auto;
5416   overflow-y: auto;
5417   word-break: break-all;
5418   word-wrap: break-word;
5419   white-space: pre-wrap;
5420 }
5421
5422 /* tables */
5423
5424 .jp-OutputArea-output.jp-RenderedHTMLCommon table {
5425   margin-left: 0;
5426   margin-right: 0;
5427 }
5428
5429 /* description lists */
5430
5431 .jp-OutputArea-output dl,
5432 .jp-OutputArea-output dt,
5433 .jp-OutputArea-output dd {
5434   display: block;
5435 }
5436
5437 .jp-OutputArea-output dl {
5438   width: 100%;
5439   overflow: hidden;
5440   padding: 0;
5441   margin: 0;
5442 }
5443
5444 .jp-OutputArea-output dt {
5445   font-weight: bold;
5446   float: left;
5447   width: 20%;
5448   padding: 0;
5449   margin: 0;
5450 }
5451
5452 .jp-OutputArea-output dd {
5453   float: left;
5454   width: 80%;
5455   padding: 0;
5456   margin: 0;
5457 }
5458
5459 .jp-TrimmedOutputs pre {
5460   background: var(--jp-layout-color3);
5461   font-size: calc(var(--jp-code-font-size) * 1.4);
5462   text-align: center;
5463   text-transform: uppercase;
5464 }
5465
5466 /* Hide the gutter in case of
5467 * - nested output areas (e.g. in the case of output widgets)
```

```
5468 * - mirrored output areas
5469 */
5470 .jp-OutputArea .jp-OutputArea .jp-OutputArea-prompt {
5471   display: none;
5472 }
5473
5474 /* Hide empty lines in the output area, for instance due to cleared widgets */
5475 .jp-OutputArea-prompt:empty {
5476   padding: 0;
5477   border: 0;
5478 }
5479
5480 /*
5481 | executeResult is added to any Output-result for the display of the object
5482 | returned by a cell
5483 |-----*/
5484
5485 .jp-OutputArea-output.jp-OutputArea-executeResult {
5486   margin-left: 0;
5487   width: 100%;
5488 }
5489
5490 /* Text output with the Out[] prompt needs a top padding to match the
5491 * alignment of the Out[] prompt itself.
5492 */
5493 .jp-OutputArea-executeResult .jp-RenderedText.jp-OutputArea-output {
5494   padding-top: var(--jp-code-padding);
5495   border-top: var(--jp-border-width) solid transparent;
5496 }
5497
5498 /*
5499 | The Stdin output
5500 |-----*/
5501
5502 .jp-Stdin-prompt {
5503   color: var(--jp-content-font-color0);
5504   padding-right: var(--jp-code-padding);
5505   vertical-align: baseline;
5506   flex: 0 0 auto;
5507 }
5508
5509 .jp-Stdin-input {
5510   font-family: var(--jp-code-font-family);
5511   font-size: inherit;
5512   color: inherit;
5513   background-color: inherit;
5514   width: 42%;
5515   min-width: 200px;
5516
5517   /* make sure input baseline aligns with prompt */
5518   vertical-align: baseline;
5519
5520   /* padding + margin = 0.5em between prompt and cursor */
5521   padding: 0 0.25em;
5522   margin: 0 0.25em;
5523   flex: 0 0 70%;
5524 }
5525
5526 .jp-Stdin-input::placeholder {
5527   opacity: 0;
5528 }
5529
5530 .jp-Stdin-input:focus {
5531   box-shadow: none;
5532 }
5533
5534 .jp-Stdin-input:focus::placeholder {
5535   opacity: 1;
5536 }
5537
5538 /*
5539 | Output Area View
5540 |-----*/
5541
5542 .jp-LinkedOutputView .jp-OutputArea {
5543   height: 100%;
```

```
5544     display: block;
5545 }
5546
5547 .jp-LinkedOutputView .jp-OutputArea-output:only-child {
5548     height: 100%;
5549 }
5550
5551 -----
5552 | Printing
5553 |-----*/
5554
5555 @media print {
5556     .jp-OutputArea-child {
5557         break-inside: avoid-page;
5558     }
5559 }
5560
5561 -----
5562 | Mobile
5563 |-----*/
5564 @media only screen and (max-width: 760px) {
5565     .jp-OutputPrompt {
5566         display: table-row;
5567         text-align: left;
5568     }
5569
5570     .jp-OutputArea-child .jp-OutputArea-output {
5571         display: table-row;
5572         margin-left: var(--jp-notebook-padding);
5573     }
5574 }
5575
5576 /* Trimmed outputs warning */
5577 .jp-TruncatedOutputs > a {
5578     margin: 10px;
5579     text-decoration: none;
5580     cursor: pointer;
5581 }
5582
5583 .jp-TruncatedOutputs > a:hover {
5584     text-decoration: none;
5585 }
5586
5587 -----
5588 | Copyright (c) Jupyter Development Team.
5589 | Distributed under the terms of the Modified BSD License.
5590 |-----*/
5591
5592 -----
5593 | Table of Contents
5594 |-----*/
5595
5596 :root {
5597     --jp-private-toc-active-width: 4px;
5598 }
5599
5600 .jp-TableOfContents {
5601     display: flex;
5602     flex-direction: column;
5603     background: var(--jp-layout-color1);
5604     color: var(--jp-ui-font-color1);
5605     font-size: var(--jp-ui-font-size1);
5606     height: 100%;
5607 }
5608
5609 .jp-TableOfContents-placeholder {
5610     text-align: center;
5611 }
5612
5613 .jp-TableOfContents-placeholderContent {
5614     color: var(--jp-content-font-color2);
5615     padding: 8px;
5616 }
5617
5618 .jp-TableOfContents-placeholderContent > h3 {
5619     margin-bottom: var(--jp-content-heading-margin-bottom);
```

```
5620 }
5621
5622 .jp-TableOfContents .jp-SidePanel-content {
5623   overflow-y: auto;
5624 }
5625
5626 .jp-TableOfContents-tree {
5627   margin: 4px;
5628 }
5629
5630 .jp-TableOfContents ol {
5631   list-style-type: none;
5632 }
5633
5634 /* stylelint-disable-next-line selector-max-type */
5635 .jp-TableOfContents li > ol {
5636   /* Align left border with triangle icon center */
5637   padding-left: 11px;
5638 }
5639
5640 .jp-TableOfContents-content {
5641   /* left margin for the active heading indicator */
5642   margin: 0 0 0 var(--jp-private-toc-active-width);
5643   padding: 0;
5644   background-color: var(--jp-layout-color1);
5645 }
5646
5647 .jp-tocItem {
5648   -webkit-user-select: none;
5649   -moz-user-select: none;
5650   -ms-user-select: none;
5651   user-select: none;
5652 }
5653
5654 .jp-tocItem-heading {
5655   display: flex;
5656   cursor: pointer;
5657 }
5658
5659 .jp-tocItem-heading:hover {
5660   background-color: var(--jp-layout-color2);
5661 }
5662
5663 .jp-tocItem-content {
5664   display: block;
5665   padding: 4px 0;
5666   white-space: nowrap;
5667   text-overflow: ellipsis;
5668   overflow-x: hidden;
5669 }
5670
5671 .jp-tocItem-collapser {
5672   height: 20px;
5673   margin: 2px 2px 0;
5674   padding: 0;
5675   background: none;
5676   border: none;
5677   cursor: pointer;
5678 }
5679
5680 .jp-tocItem-collapser:hover {
5681   background-color: var(--jp-layout-color3);
5682 }
5683
5684 /* Active heading indicator */
5685
5686 .jp-tocItem-heading::before {
5687   content: ' ';
5688   background: transparent;
5689   width: var(--jp-private-toc-active-width);
5690   height: 24px;
5691   position: absolute;
5692   left: 0;
5693   border-radius: var(--jp-border-radius);
5694 }
5695
```

```
5696 .jp-tocItem-heading.jp-tocItem-active::before {  
5697   background-color: var(--jp-brand-color1);  
5698 }  
5699  
5700 .jp-tocItem-heading:hover.jp-tocItem-active::before {  
5701   background: var(--jp-brand-color0);  
5702   opacity: 1;  
5703 }  
5704  
5705 /*-----  
5706 | Copyright (c) Jupyter Development Team.  
5707 | Distributed under the terms of the Modified BSD License.  
5708 |-----*/  
5709  
5710 .jp-Collapser {  
5711   flex: 0 0 var(--jp-cell-collapser-width);  
5712   padding: 0;  
5713   margin: 0;  
5714   border: none;  
5715   outline: none;  
5716   background: transparent;  
5717   border-radius: var(--jp-border-radius);  
5718   opacity: 1;  
5719 }  
5720  
5721 .jp-Collapser-child {  
5722   display: block;  
5723   width: 100%;  
5724   box-sizing: border-box;  
5725  
5726 /* height: 100% doesn't work because the height of its parent is computed from content */  
5727   position: absolute;  
5728   top: 0;  
5729   bottom: 0;  
5730 }  
5731  
5732 /*-----  
5733 | Printing  
5734 |-----*/  
5735  
5736 /*  
5737 Hiding collapsers in print mode.  
5738  
5739 Note: input and output wrappers have "display: block" property in print mode.  
5740 */  
5741  
5742 @media print {  
5743   .jp-Collapser {  
5744     display: none;  
5745   }  
5746 }  
5747  
5748 /*-----  
5749 | Copyright (c) Jupyter Development Team.  
5750 | Distributed under the terms of the Modified BSD License.  
5751 |-----*/  
5752  
5753 /*-----  
5754 | Header/Footer  
5755 |-----*/  
5756  
5757 /* Hidden by zero height by default */  
5758 .jp-CellHeader,  
5759 .jp-CellFooter {  
5760   height: 0;  
5761   width: 100%;  
5762   padding: 0;  
5763   margin: 0;  
5764   border: none;  
5765   outline: none;  
5766   background: transparent;  
5767 }  
5768  
5769 /*-----  
5770 | Copyright (c) Jupyter Development Team.  
5771 | Distributed under the terms of the Modified BSD License.
```

```
5772 |-----*/
5773 /*
5774 | Input
5775 |-----*/
5776 /* All input areas */
5777 .jp-InputArea {
5778   display: table;
5779   table-layout: fixed;
5780   width: 100%;
5781   overflow: hidden;
5782 }
5783
5784 .jp-InputArea-editor {
5785   display: table-cell;
5786   overflow: hidden;
5787   vertical-align: top;
5788
5789   /* This is the non-active, default styling */
5790   border: var(--jp-border-width) solid var(--jp-cell-editor-border-color);
5791   border-radius: 0;
5792   background: var(--jp-cell-editor-background);
5793 }
5794
5795 .jp-InputPrompt {
5796   display: table-cell;
5797   vertical-align: top;
5798   width: var(--jp-cell-prompt-width);
5799   color: var(--jp-cell-inprompt-font-color);
5800   font-family: var(--jp-cell-prompt-font-family);
5801   padding: var(--jp-code-padding);
5802   letter-spacing: var(--jp-cell-prompt-letter-spacing);
5803   opacity: var(--jp-cell-prompt-opacity);
5804   line-height: var(--jp-code-line-height);
5805   font-size: var(--jp-code-font-size);
5806   border: var(--jp-border-width) solid transparent;
5807
5808   /* Right align prompt text, don't wrap to handle large prompt numbers */
5809   text-align: right;
5810   white-space: nowrap;
5811   overflow: hidden;
5812   text-overflow: ellipsis;
5813
5814   /* Disable text selection */
5815   -webkit-user-select: none;
5816   -moz-user-select: none;
5817   -ms-user-select: none;
5818   user-select: none;
5819 }
5820
5821 }
5822
5823 /*
5824 | Mobile
5825 |-----*/
5826 @media only screen and (max-width: 760px) {
5827   .jp-InputArea-editor {
5828     display: table-row;
5829     margin-left: var(--jp-notebook-padding);
5830   }
5831
5832   .jp-InputPrompt {
5833     display: table-row;
5834     text-align: left;
5835   }
5836 }
5837
5838 /*
5839 | Copyright (c) Jupyter Development Team.
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5841 |-----*/
5842
5843 /*
5844 | Placeholder
5845 |-----*/
5846
5847 .jp-Placeholder {
```

```
5848 display: table;
5849 table-layout: fixed;
5850 width: 100%;
5851 }
5852
5853 .jp-Placeholder-prompt {
5854 display: table-cell;
5855 box-sizing: border-box;
5856 }
5857
5858 .jp-Placeholder-content {
5859 display: table-cell;
5860 padding: 4px 6px;
5861 border: 1px solid transparent;
5862 border-radius: 0;
5863 background: none;
5864 box-sizing: border-box;
5865 cursor: pointer;
5866 }
5867
5868 .jp-Placeholder-contentContainer {
5869 display: flex;
5870 }
5871
5872 .jp-Placeholder-content:hover,
5873 .jp-InputPlaceholder > .jp-Placeholder-content:hover {
5874 border-color: var(--jp-layout-color3);
5875 }
5876
5877 .jp-Placeholder-content .jp-MoreHorizIcon {
5878 width: 32px;
5879 height: 16px;
5880 border: 1px solid transparent;
5881 border-radius: var(--jp-border-radius);
5882 }
5883
5884 .jp-Placeholder-content .jp-MoreHorizIcon:hover {
5885 border: 1px solid var(--jp-border-color1);
5886 box-shadow: 0 0 2px 0 rgba(0, 0, 0, 0.25);
5887 background-color: var(--jp-layout-color0);
5888 }
5889
5890 .jp-PlaceholderText {
5891 white-space: nowrap;
5892 overflow-x: hidden;
5893 color: var(--jp-inverse-layout-color3);
5894 font-family: var(--jp-code-font-family);
5895 }
5896
5897 .jp-InputPlaceholder > .jp-Placeholder-content {
5898 border-color: var(--jp-cell-editor-border-color);
5899 background: var(--jp-cell-editor-background);
5900 }
5901
5902 -----
5903 | Copyright (c) Jupyter Development Team.
5904 | Distributed under the terms of the Modified BSD License.
5905 | -----
5906
5907 -----
5908 | Private CSS variables
5909 | -----
5910
5911 :root {
5912 --jp-private-cell-scrolling-output-offset: 5px;
5913 }
5914
5915 -----
5916 | Cell
5917 | -----
5918
5919 .jp-Cell {
5920 padding: var(--jp-cell-padding);
5921 margin: 0;
5922 border: none;
5923 outline: none;
```

```
5924     background: transparent;
5925   }
5926 
5927 /*-----
5928 | Common input/output
5929 |-----*/
5930 
5931 .jp-Cell-inputWrapper,
5932 .jp-Cell-outputWrapper {
5933   display: flex;
5934   flex-direction: row;
5935   padding: 0;
5936   margin: 0;
5937 
5938 /* Added to reveal the box-shadow on the input and output collapers. */
5939   overflow: visible;
5940 }
5941 
5942 /* Only input/output areas inside cells */
5943 .jp-Cell-inputArea,
5944 .jp-Cell-outputArea {
5945   flex: 1 1 auto;
5946 }
5947 
5948 /*-----
5949 | Collapser
5950 |-----*/
5951 
5952 /* Make the output collapser disappear when there is not output, but do so
5953 * in a manner that leaves it in the layout and preserves its width.
5954 */
5955 .jp-Cell.jp-mod-noOutputs .jp-Cell-outputCollapser {
5956   border: none !important;
5957   background: transparent !important;
5958 }
5959 
5960 .jp-Cell:not(.jp-mod-noOutputs) .jp-Cell-outputCollapser {
5961   min-height: var(--jp-cell-collapser-min-height);
5962 }
5963 
5964 /*-----
5965 | Output
5966 |-----*/
5967 
5968 /* Put a space between input and output when there IS output */
5969 .jp-Cell:not(.jp-mod-noOutputs) .jp-Cell-outputWrapper {
5970   margin-top: 5px;
5971 }
5972 
5973 .jp-CodeCell.jp-mod-outputsScrolled .jp-Cell-outputArea {
5974   overflow-y: auto;
5975   max-height: 24em;
5976   margin-left: var(--jp-private-cell-scrolling-output-offset);
5977   resize: vertical;
5978 }
5979 
5980 .jp-CodeCell.jp-mod-outputsScrolled .jp-Cell-outputArea[style*='height'] {
5981   max-height: unset;
5982 }
5983 
5984 .jp-CodeCell.jp-mod-outputsScrolled .jp-Cell-outputArea::after {
5985   content: ' ';
5986   box-shadow: inset 0 0 6px 2px rgb(0 0 0 / 30%);
5987   width: 100%;
5988   height: 100%;
5989   position: sticky;
5990   bottom: 0;
5991   top: 0;
5992   margin-top: -50%;
5993   float: left;
5994   display: block;
5995   pointer-events: none;
5996 }
5997 
5998 .jp-CodeCell.jp-mod-outputsScrolled .jp-OutputArea-child {
5999   padding-top: 6px;
```

```
6000 }
6001
6002 .jp-CodeCell.jp-mod-outputsScrolled .jp-OutputArea-prompt {
6003   width: calc(
6004     var(--jp-cell-prompt-width) - var(--jp-private-cell-scrolling-output-offset)
6005   );
6006 }
6007
6008 .jp-CodeCell.jp-mod-outputsScrolled .jp-OutputArea-promptOverlay {
6009   left: calc(-1 * var(--jp-private-cell-scrolling-output-offset));
6010 }
6011
6012 /-----
6013 | CodeCell
6014 |-----*/
6015
6016 /-----
6017 | MarkdownCell
6018 |-----*/
6019
6020 .jp-MarkdownOutput {
6021   display: table-cell;
6022   width: 100%;
6023   margin-top: 0;
6024   margin-bottom: 0;
6025   padding-left: var(--jp-code-padding);
6026 }
6027
6028 .jp-MarkdownOutput.jp-RenderedHTMLCommon {
6029   overflow: auto;
6030 }
6031
6032 /* collapseHeadingButton (show always if hiddenCellsButton is _not_ shown) */
6033 .jp-collapseHeadingButton {
6034   display: flex;
6035   min-height: var(--jp-cell-collapser-min-height);
6036   font-size: var(--jp-code-font-size);
6037   position: absolute;
6038   background-color: transparent;
6039   background-size: 25px;
6040   background-repeat: no-repeat;
6041   background-position-x: center;
6042   background-position-y: top;
6043   background-image: var(--jp-icon-caret-down);
6044   right: 0;
6045   top: 0;
6046   bottom: 0;
6047 }
6048
6049 .jp-collapseHeadingButton.jp-mod-collapsed {
6050   background-image: var(--jp-icon-caret-right);
6051 }
6052
6053 /*
6054 set the container font size to match that of content
6055 so that the nested collapse buttons have the right size
6056 */
6057 .jp-MarkdownCell .jp-InputPrompt {
6058   font-size: var(--jp-content-font-size1);
6059 }
6060
6061 /*
6062 Align collapseHeadingButton with cell top header
6063 The font sizes are identical to the ones in packages/rendermime/style/base.css
6064 */
6065 .jp-mod-rendered .jp-collapseHeadingButton[data-heading-level='1'] {
6066   font-size: var(--jp-content-font-size5);
6067   background-position-y: calc(0.3 * var(--jp-content-font-size5));
6068 }
6069
6070 .jp-mod-rendered .jp-collapseHeadingButton[data-heading-level='2'] {
6071   font-size: var(--jp-content-font-size4);
6072   background-position-y: calc(0.3 * var(--jp-content-font-size4));
6073 }
6074
6075 .jp-mod-rendered .jp-collapseHeadingButton[data-heading-level='3'] {
```

```
6076    font-size: var(--jp-content-font-size3);  
6077    background-position-y: calc(0.3 * var(--jp-content-font-size3));  
6078 }  
6079  
6080 .jp-mod-rendered .jp-collapseHeadingButton[data-heading-level='4'] {  
6081    font-size: var(--jp-content-font-size2);  
6082    background-position-y: calc(0.3 * var(--jp-content-font-size2));  
6083 }  
6084  
6085 .jp-mod-rendered .jp-collapseHeadingButton[data-heading-level='5'] {  
6086    font-size: var(--jp-content-font-size1);  
6087    background-position-y: top;  
6088 }  
6089  
6090 .jp-mod-rendered .jp-collapseHeadingButton[data-heading-level='6'] {  
6091    font-size: var(--jp-content-font-size0);  
6092    background-position-y: top;  
6093 }  
6094  
6095 /* collapseHeadingButton (show only on (hover,active) if hiddenCellsButton is shown) */  
6096 .jp-Notebook.jp-mod-showHiddenCellsButton .jp-collapseHeadingButton {  
6097    display: none;  
6098 }  
6099  
6100 .jp-Notebook.jp-mod-showHiddenCellsButton  
6101 :is(.jp-MarkdownCell:hover, .jp-mod-active)  
6102 .jp-collapseHeadingButton {  
6103    display: flex;  
6104 }  
6105  
6106 /* showHiddenCellsButton (only show if jp-mod-showHiddenCellsButton is set, which  
6107 is a consequence of the showHiddenCellsButton option in Notebook Settings)*/  
6108 .jp-Notebook.jp-mod-showHiddenCellsButton .jp-showHiddenCellsButton {  
6109    margin-left: calc(var(--jp-cell-prompt-width) + 2 * var(--jp-code-padding));  
6110    margin-top: var(--jp-code-padding);  
6111    border: 1px solid var(--jp-border-color2);  
6112    background-color: var(--jp-border-color3) !important;  
6113    color: var(--jp-content-font-color0) !important;  
6114    display: flex;  
6115 }  
6116  
6117 .jp-Notebook.jp-mod-showHiddenCellsButton .jp-showHiddenCellsButton:hover {  
6118    background-color: var(--jp-border-color2) !important;  
6119 }  
6120  
6121 .jp-showHiddenCellsButton {  
6122    display: none;  
6123 }  
6124  
6125 -----  
6126 | Printing  
6127 |-----*/  
6128  
6129 /*  
6130 Using block instead of flex to allow the use of the break-inside CSS property for  
6131 cell outputs.  
6132 */  
6133  
6134 @media print {  
6135   .jp-Cell-inputWrapper,  
6136   .jp-Cell-outputWrapper {  
6137     display: block;  
6138   }  
6139 }  
6140  
6141 -----  
6142 | Copyright (c) Jupyter Development Team.  
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6144 |-----*/  
6145  
6146 -----  
6147 | Copyright (c) Jupyter Development Team.  
6148 | Distributed under the terms of the Modified BSD License.  
6149 |-----*/  
6150  
6151 /*-----
```

```
6152 | Variables
6153 |-----*/
6154
6155 :root {
6156   --jp-notebook-toolbar-padding: 2px 5px 2px 2px;
6157 }
6158
6159 /*-----
6160
6161 /*-----
6162 | Styles
6163 |-----*/
6164
6165 .jp-NotebookPanel-toolbar {
6166   padding: var(--jp-notebook-toolbar-padding);
6167
6168   /* disable paint containment from lumino 2.0 default strict CSS containment */
6169   contain: style size !important;
6170 }
6171
6172 .jp-Toolbar-item.jp-Notebook-toolbarCellType .jp-select-wrapper.jp-mod-focused {
6173   border: none;
6174   box-shadow: none;
6175 }
6176
6177 .jp-Notebook-toolbarCellTypeDropdown select {
6178   height: 24px;
6179   font-size: var(--jp-ui-font-size1);
6180   line-height: 14px;
6181   border-radius: 0;
6182   display: block;
6183 }
6184
6185 .jp-Notebook-toolbarCellTypeDropdown span {
6186   top: 5px !important;
6187 }
6188
6189 .jp-Toolbar-responsive-popup {
6190   position: absolute;
6191   height: fit-content;
6192   display: flex;
6193   flex-direction: row;
6194   flex-wrap: wrap;
6195   justify-content: flex-end;
6196   border-bottom: var(--jp-border-width) solid var(--jp-toolbar-border-color);
6197   box-shadow: var(--jp-toolbar-box-shadow);
6198   background: var(--jp-toolbar-background);
6199   min-height: var(--jp-toolbar-micro-height);
6200   padding: var(--jp-notebook-toolbar-padding);
6201   z-index: 1;
6202   right: 0;
6203   top: 0;
6204 }
6205
6206 .jp-Toolbar > .jp-Toolbar-responsive-opener {
6207   margin-left: auto;
6208 }
6209
6210 /*-----
6211 | Copyright (c) Jupyter Development Team.
6212 | Distributed under the terms of the Modified BSD License.
6213 |-----*/
6214
6215 /*-----
6216 | Variables
6217 |-----*/
6218
6219 /*-----
6220
6221 /*-----
6222 | Styles
6223 |-----*/
6224
6225 .jp-Notebook-ExecutionIndicator {
6226   position: relative;
6227   display: inline-block;
```

```
6228 height: 100%;  
6229 z-index: 9997;  
6230 }  
6231  
.jp-Notebook-ExecutionIndicator-tooltip {  
6233 visibility: hidden;  
6234 height: auto;  
6235 width: max-content;  
6236 width: -moz-max-content;  
6237 background-color: var(--jp-layout-color2);  
6238 color: var(--jp-ui-font-color1);  
6239 text-align: justify;  
6240 border-radius: 6px;  
6241 padding: 0 5px;  
6242 position: fixed;  
6243 display: table;  
6244 }  
6245  
.jp-Notebook-ExecutionIndicator-tooltip.up {  
6247 transform: translateX(-50%) translateY(-100%) translateY(-32px);  
6248 }  
6249  
.jp-Notebook-ExecutionIndicator-tooltip.down {  
6251 transform: translateX(calc(-100% + 16px)) translateY(5px);  
6252 }  
6253  
.jp-Notebook-ExecutionIndicator-tooltip.hidden {  
6255 display: none;  
6256 }  
6257  
.jp-Notebook-ExecutionIndicator:hover .jp-Notebook-ExecutionIndicator-tooltip {  
6259 visibility: visible;  
6260 }  
6261  
.jp-Notebook-ExecutionIndicator span {  
6263 font-size: var(--jp-ui-font-size1);  
6264 font-family: var(--jp-ui-font-family);  
6265 color: var(--jp-ui-font-color1);  
6266 line-height: 24px;  
6267 display: block;  
6268 }  
6269  
.jp-Notebook-ExecutionIndicator-progress-bar {  
6271 display: flex;  
6272 justify-content: center;  
6273 height: 100%;  
6274 }  
6275  
/*  
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 */  
6279  
/*  
 * Execution indicator  
 */  
6282  
.jp-tocItem-content::after {  
6285 content: '';  
6286  
/* Must be identical to form a circle */  
6288 width: 12px;  
6289 height: 12px;  
6290 background: none;  
6291 border: none;  
6292 position: absolute;  
6293 right: 0;  
6294 }  
6295  
.jp-tocItem-content[data-running='0']::after {  
6297 border-radius: 50%;  
6298 border: var(--jp-border-width) solid var(--jp-inverse-layout-color3);  
6299 background: none;  
6300 }  
6301  
.jp-tocItem-content[data-running='1']::after {  
6303 border-radius: 50%;
```

```
6304 border: var(--jp-border-width) solid var(--jp-inverse-layout-color3);
6305 background-color: var(--jp-inverse-layout-color3);
6306 }
6307
6308 .jp-tocItem-content[data-running='0'],
6309 .jp-tocItem-content[data-running='1'] {
6310   margin-right: 12px;
6311 }
6312
6313 /*
6314 * Copyright (c) Jupyter Development Team.
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6316 */
6317
6318 .jp-Notebook-footer {
6319   height: 27px;
6320   margin-left: calc(
6321     var(--jp-cell-prompt-width) + var(--jp-cell-collapser-width) +
6322     var(--jp-cell-padding)
6323   );
6324   width: calc(
6325     100% -
6326     (
6327       var(--jp-cell-prompt-width) + var(--jp-cell-collapser-width) +
6328       var(--jp-cell-padding) + var(--jp-cell-padding)
6329     )
6330   );
6331   border: var(--jp-border-width) solid var(--jp-cell-editor-border-color);
6332   color: var(--jp-ui-font-color3);
6333   margin-top: 6px;
6334   background: none;
6335   cursor: pointer;
6336 }
6337
6338 .jp-Notebook-footer:focus {
6339   border-color: var(--jp-cell-editor-active-border-color);
6340 }
6341
6342 /* For devices that support hovering, hide footer until hover */
6343 @media (hover: hover) {
6344   .jp-Notebook-footer {
6345     opacity: 0;
6346   }
6347
6348   .jp-Notebook-footer:focus,
6349   .jp-Notebook-footer:hover {
6350     opacity: 1;
6351   }
6352 }
6353
6354 /*
6355 | Copyright (c) Jupyter Development Team.
6356 | Distributed under the terms of the Modified BSD License.
6357 |-----*/
6358
6359 /*
6360 | Imports
6361 |-----*/
6362
6363 /*
6364 | CSS variables
6365 |-----*/
6366
6367 :root {
6368   --jp-side-by-side-output-size: 1fr;
6369   --jp-side-by-side-resized-cell: var(--jp-side-by-side-output-size);
6370   --jp-private-notebook-dragImage-width: 304px;
6371   --jp-private-notebook-dragImage-height: 36px;
6372   --jp-private-notebook-selected-color: var(--md-blue-400);
6373   --jp-private-notebook-active-color: var(--md-green-400);
6374 }
6375
6376 /*
6377 | Notebook
6378 |-----*/
6379
```

```
6380 /* stylelint-disable selector-max-class */
6381
6382 .jp-NotebookPanel {
6383   display: block;
6384   height: 100%;
6385 }
6386
6387 .jp-NotebookPanel.jp-Document {
6388   min-width: 240px;
6389   min-height: 120px;
6390 }
6391
6392 .jp-Notebook {
6393   padding: var(--jp-notebook-padding);
6394   outline: none;
6395   overflow: auto;
6396   background: var(--jp-layout-color0);
6397 }
6398
6399 .jp-Notebook.jp-mod-scrollPastEnd::after {
6400   display: block;
6401   content: '';
6402   min-height: var(--jp-notebook-scroll-padding);
6403 }
6404
6405 .jp-MainAreaWidget-ContainStrict .jp-Notebook * {
6406   contain: strict;
6407 }
6408
6409 .jp-Notebook .jp-Cell {
6410   overflow: visible;
6411 }
6412
6413 .jp-Notebook .jp-Cell .jp-InputPrompt {
6414   cursor: move;
6415 }
6416
6417 /-----
6418 | Notebook state related styling
6419 |
6420 | The notebook and cells each have states, here are the possibilities:
6421 |
6422 | - Notebook
6423 |   - Command
6424 |   - Edit
6425 | - Cell
6426 |   - None
6427 |   - Active (only one can be active)
6428 |   - Selected (the cells actions are applied to)
6429 |   - Multiselected (when multiple selected, the cursor)
6430 |   - No outputs
6431 |-----*/
6432
6433 /* Command or edit modes */
6434
6435 .jp-Notebook .jp-Cell:not(.jp-mod-active) .jp-InputPrompt {
6436   opacity: var(--jp-cell-prompt-not-active-opacity);
6437   color: var(--jp-cell-prompt-not-active-font-color);
6438 }
6439
6440 .jp-Notebook .jp-Cell:not(.jp-mod-active) .jp-OutputPrompt {
6441   opacity: var(--jp-cell-prompt-not-active-opacity);
6442   color: var(--jp-cell-prompt-not-active-font-color);
6443 }
6444
6445 /* cell is active */
6446 .jp-Notebook .jp-Cell.jp-mod-active .jp-Collapser {
6447   background: var(--jp-brand-color1);
6448 }
6449
6450 /* cell is dirty */
6451 .jp-Notebook .jp-Cell.jp-mod-dirty .jp-InputPrompt {
6452   color: var(--jp-warn-color1);
6453 }
6454
6455 .jp-Notebook .jp-Cell.jp-mod-dirty .jp-InputPrompt::before {
```

```
6456 color: var(--jp-warn-color1);
6457 content: '•';
6458 }
6459
6460 .jp-Notebook .jp-Cell.jp-mod-active.jp-mod-dirty .jp-Collapser {
6461 background: var(--jp-warn-color1);
6462 }
6463
6464 /* collapser is hovered */
6465 .jp-Notebook .jp-Cell .jp-Collapser:hover {
6466 box-shadow: var(--jp-elevation-z2);
6467 background: var(--jp-brand-color1);
6468 opacity: var(--jp-cell-collapser-not-active-hover-opacity);
6469 }
6470
6471 /* cell is active and collapser is hovered */
6472 .jp-Notebook .jp-Cell.jp-mod-active .jp-Collapser:hover {
6473 background: var(--jp-brand-color0);
6474 opacity: 1;
6475 }
6476
6477 /* Command mode */
6478
6479 .jp-Notebook.jp-mod-commandMode .jp-Cell.jp-mod-selected {
6480 background: var(--jp-notebook-multiselected-color);
6481 }
6482
6483 .jp-Notebook.jp-mod-commandMode
6484 .jp-Cell.jp-mod-active.jp-mod-selected:not(.jp-mod-multiSelected) {
6485 background: transparent;
6486 }
6487
6488 /* Edit mode */
6489
6490 .jp-Notebook.jp-mod-editMode .jp-Cell.jp-mod-active .jp-InputArea-editor {
6491 border: var(--jp-border-width) solid var(--jp-cell-editor-active-border-color);
6492 box-shadow: var(--jp-input-box-shadow);
6493 background-color: var(--jp-cell-editor-active-background);
6494 }
6495
6496 -----
6497 | Notebook drag and drop
6498 | -----
6499
6500 .jp-Notebook-cell.jp-mod-dropSource {
6501 opacity: 0.5;
6502 }
6503
6504 .jp-Notebook-cell.jp-mod-dropTarget,
6505 .jp-Notebook.jp-mod-commandMode
6506 .jp-Notebook-cell.jp-mod-active.jp-mod-selected.jp-mod-dropTarget {
6507 border-top-color: var(--jp-private-notebook-selected-color);
6508 border-top-style: solid;
6509 border-top-width: 2px;
6510 }
6511
6512 .jp-dragImage {
6513 display: block;
6514 flex-direction: row;
6515 width: var(--jp-private-notebook-dragImage-width);
6516 height: var(--jp-private-notebook-dragImage-height);
6517 border: var(--jp-border-width) solid var(--jp-cell-editor-border-color);
6518 background: var(--jp-cell-editor-background);
6519 overflow: visible;
6520 }
6521
6522 .jp-dragImage-singlePrompt {
6523 box-shadow: 2px 2px 4px 0 rgba(0, 0, 0, 0.12);
6524 }
6525
6526 .jp-dragImage .jp-dragImage-content {
6527 flex: 1 1 auto;
6528 z-index: 2;
6529 font-size: var(--jp-code-font-size);
6530 font-family: var(--jp-code-font-family);
6531 line-height: var(--jp-code-line-height);
```

```
6532 padding: var(--jp-code-padding);  
6533 border: var(--jp-border-width) solid var(--jp-cell-editor-border-color);  
6534 background: var(--jp-cell-editor-background-color);  
6535 color: var(--jp-content-font-color3);  
6536 text-align: left;  
6537 margin: 4px 4px 4px 0;  
6538 }  
6539  
6540 .jp-dragImage .jp-dragImage-prompt {  
6541 flex: 0 0 auto;  
6542 min-width: 36px;  
6543 color: var(--jp-cell-inprompt-font-color);  
6544 padding: var(--jp-code-padding);  
6545 padding-left: 12px;  
6546 font-family: var(--jp-cell-prompt-font-family);  
6547 letter-spacing: var(--jp-cell-prompt-letter-spacing);  
6548 line-height: 1.9;  
6549 font-size: var(--jp-code-font-size);  
6550 border: var(--jp-border-width) solid transparent;  
6551 }  
6552  
6553 .jp-dragImage-multipleBack {  
6554 z-index: -1;  
6555 position: absolute;  
6556 height: 32px;  
6557 width: 300px;  
6558 top: 8px;  
6559 left: 8px;  
6560 background: var(--jp-layout-color2);  
6561 border: var(--jp-border-width) solid var(--jp-input-border-color);  
6562 box-shadow: 2px 2px 4px 0 rgba(0, 0, 0, 0.12);  
6563 }  
6564  
6565 /*-----  
6566 | Cell toolbar  
6567 |-----*/  
6568  
6569 .jp-NotebookTools {  
6570 display: block;  
6571 min-width: var(--jp-sidebar-min-width);  
6572 color: var(--jp-ui-font-color1);  
6573 background: var(--jp-layout-color1);  
6574  
6575 /* This is needed so that all font sizing of children done in ems is  
6576 * relative to this base size */  
6577 font-size: var(--jp-ui-font-size1);  
6578 overflow: auto;  
6579 }  
6580  
6581 .jp-ActiveCellTool {  
6582 padding: 12px 0;  
6583 display: flex;  
6584 }  
6585  
6586 .jp-ActiveCellTool-Content {  
6587 flex: 1 1 auto;  
6588 }  
6589  
6590 .jp-ActiveCellTool .jp-ActiveCellTool-CellContent {  
6591 background: var(--jp-cell-editor-background);  
6592 border: var(--jp-border-width) solid var(--jp-cell-editor-border-color);  
6593 border-radius: 0;  
6594 min-height: 29px;  
6595 }  
6596  
6597 .jp-ActiveCellTool .jp-InputPrompt {  
6598 min-width: calc(var(--jp-cell-prompt-width) * 0.75);  
6599 }  
6600  
6601 .jp-ActiveCellTool-CellContent > pre {  
6602 padding: 5px 4px;  
6603 margin: 0;  
6604 white-space: normal;  
6605 }  
6606  
6607 .jp-MetadataEditorTool {
```

```
6608   flex-direction: column;
6609   padding: 12px 0;
6610 }
6611
6612 .jp-RankedPanel > :not(:first-child) {
6613   margin-top: 12px;
6614 }
6615
6616 .jp-KeySelector select.jp-mod-styled {
6617   font-size: var(--jp-ui-font-size1);
6618   color: var(--jp-ui-font-color0);
6619   border: var(--jp-border-width) solid var(--jp-border-color1);
6620 }
6621
6622 .jp-KeySelector label,
6623 .jp-MetadataEditorTool label,
6624 .jp-NumberSetter label {
6625   line-height: 1.4;
6626 }
6627
6628 .jp-NotebookTools .jp-select-wrapper {
6629   margin-top: 4px;
6630   margin-bottom: 0;
6631 }
6632
6633 .jp-NumberSetter input {
6634   width: 100%;
6635   margin-top: 4px;
6636 }
6637
6638 .jp-NotebookTools .jp-Collapse {
6639   margin-top: 16px;
6640 }
6641
6642 /-----
6643 | Presentation Mode (.jp-mod-presentationMode)
6644 |-----*/
6645
6646 .jp-mod-presentationMode .jp-Notebook {
6647   --jp-content-font-size1: var(--jp-content-presentation-font-size1);
6648   --jp-code-font-size: var(--jp-code-presentation-font-size);
6649 }
6650
6651 .jp-mod-presentationMode .jp-Notebook .jp-Cell .jp-InputPrompt,
6652 .jp-mod-presentationMode .jp-Notebook .jp-Cell .jp-OutputPrompt {
6653   flex: 0 0 110px;
6654 }
6655
6656 /-----
6657 | Side-by-side Mode (.jp-mod-sideBySide)
6658 |-----*/
6659 .jp-mod-sideBySide .jp-Notebook .jp-Notebook-cell {
6660   margin-top: 3em;
6661   margin-bottom: 3em;
6662   margin-left: 5%;
6663   margin-right: 5%;
6664 }
6665
6666 .jp-mod-sideBySide .jp-Notebook .jp-CodeCell {
6667   display: grid;
6668   grid-template-columns: minmax(0, 1fr) min-content minmax(
6669     0,
6670     var(--jp-side-by-side-output-size)
6671   );
6672   grid-template-rows: auto minmax(0, 1fr) auto;
6673   grid-template-areas:
6674     'header header header'
6675     'input handle output'
6676     'footer footer footer';
6677 }
6678
6679 .jp-mod-sideBySide .jp-Notebook .jp-CodeCell.jp-mod-resizedCell {
6680   grid-template-columns: minmax(0, 1fr) min-content minmax(
6681     0,
6682     var(--jp-side-by-side-resized-cell)
6683   );
6684 }
```

```
6684 }
6685
6686 .jp-mod-sideBySide.jp-Notebook .jp-CodeCell .jp-CellHeader {
6687   grid-area: header;
6688 }
6689
6690 .jp-mod-sideBySide.jp-Notebook .jp-CodeCell .jp-Cell-inputWrapper {
6691   grid-area: input;
6692 }
6693
6694 .jp-mod-sideBySide.jp-Notebook .jp-CodeCell .jp-Cell-outputWrapper {
6695   /* overwrite the default margin (no vertical separation needed in side by side move */
6696   margin-top: 0;
6697   grid-area: output;
6698 }
6699
6700 .jp-mod-sideBySide.jp-Notebook .jp-CodeCell .jp-CellFooter {
6701   grid-area: footer;
6702 }
6703
6704 .jp-mod-sideBySide.jp-Notebook .jp-CodeCell .jp-CellResizeHandle {
6705   grid-area: handle;
6706   user-select: none;
6707   display: block;
6708   height: 100%;
6709   cursor: ew-resize;
6710   padding: 0 var(--jp-cell-padding);
6711 }
6712
6713 .jp-mod-sideBySide.jp-Notebook .jp-CodeCell .jp-CellResizeHandle::after {
6714   content: '';
6715   display: block;
6716   background: var(--jp-border-color2);
6717   height: 100%;
6718   width: 5px;
6719 }
6720
6721 .jp-mod-sideBySide.jp-Notebook
6722   .jp-CodeCell.jp-mod-resizedCell
6723     .jp-CellResizeHandle::after {
6724       background: var(--jp-border-color0);
6725     }
6726
6727 .jp-CellResizeHandle {
6728   display: none;
6729 }
6730
6731 /-----
6732 | Placeholder
6733 | -----
6734 |
6735 .jp-Cell-Placeholder {
6736   padding-left: 55px;
6737 }
6738
6739 .jp-Cell-Placeholder-wrapper {
6740   background: #fff;
6741   border: 1px solid;
6742   border-color: #e5e6e9 #dfe0e4 #d0d1d5;
6743   border-radius: 4px;
6744   -webkit-border-radius: 4px;
6745   margin: 10px 15px;
6746 }
6747
6748 .jp-Cell-Placeholder-wrapper-inner {
6749   padding: 15px;
6750   position: relative;
6751 }
6752
6753 .jp-Cell-Placeholder-wrapper-body {
6754   background-repeat: repeat;
6755   background-size: 50% auto;
6756 }
6757
6758 .jp-Cell-Placeholder-wrapper-body div {
6759   background: #f6f7f8;
```

```
6760 background-image: -webkit-linear-gradient(
6761   left,
6762   #f6f7f8 0%,
6763   #edeff1 20%,
6764   #f6f7f8 40%,
6765   #f6f7f8 100%
6766 );
6767 background-repeat: no-repeat;
6768 background-size: 800px 104px;
6769 height: 104px;
6770 position: absolute;
6771 right: 15px;
6772 left: 15px;
6773 top: 15px;
6774 }
6775
6776 div.jp-Cell-Placeholder-h1 {
6777   top: 20px;
6778   height: 20px;
6779   left: 15px;
6780   width: 150px;
6781 }
6782
6783 div.jp-Cell-Placeholder-h2 {
6784   left: 15px;
6785   top: 50px;
6786   height: 10px;
6787   width: 100px;
6788 }
6789
6790 div.jp-Cell-Placeholder-content-1,
6791 div.jp-Cell-Placeholder-content-2,
6792 div.jp-Cell-Placeholder-content-3 {
6793   left: 15px;
6794   right: 15px;
6795   height: 10px;
6796 }
6797
6798 div.jp-Cell-Placeholder-content-1 {
6799   top: 100px;
6800 }
6801
6802 div.jp-Cell-Placeholder-content-2 {
6803   top: 120px;
6804 }
6805
6806 div.jp-Cell-Placeholder-content-3 {
6807   top: 140px;
6808 }
6809
6810 </style>
6811 <style type="text/css">
6812 -----
6813 | Copyright (c) Jupyter Development Team.
6814 | Distributed under the terms of the Modified BSD License.
6815 | -----
6816
6817 /*
6818 The following CSS variables define the main, public API for styling JupyterLab.
6819 These variables should be used by all plugins wherever possible. In other
6820 words, plugins should not define custom colors, sizes, etc unless absolutely
6821 necessary. This enables users to change the visual theme of JupyterLab
6822 by changing these variables.
6823
6824 Many variables appear in an ordered sequence (0,1,2,3). These sequences
6825 are designed to work well together, so for example, `--jp-border-color1` should
6826 be used with `--jp-layout-color1`. The numbers have the following meanings:
6827
6828 * 0: super-primary, reserved for special emphasis
6829 * 1: primary, most important under normal situations
6830 * 2: secondary, next most important under normal situations
6831 * 3: tertiary, next most important under normal situations
6832
6833 Throughout JupyterLab, we are mostly following principles from Google's
6834 Material Design when selecting colors. We are not, however, following
6835 all of MD as it is not optimized for dense, information rich UIs.
```

```

6836 */
6837
6838 :root {
6839   /* Elevation
6840   *
6841   * We style box-shadows using Material Design's idea of elevation. These particular numbers are taken from here:
6842   *
6843   * https://github.com/material-components/material-components-web
6844   * https://material-components-web.appspot.com/elevation.html
6845   */
6846
6847   --jp-shadow-base-lightness: 0;
6848   --jp-shadow-umbra-color: rgba(
6849     var(--jp-shadow-base-lightness),
6850     var(--jp-shadow-base-lightness),
6851     var(--jp-shadow-base-lightness),
6852     0.2
6853   );
6854   --jp-shadow-penumbra-color: rgba(
6855     var(--jp-shadow-base-lightness),
6856     var(--jp-shadow-base-lightness),
6857     var(--jp-shadow-base-lightness),
6858     0.14
6859   );
6860   --jp-shadow-ambient-color: rgba(
6861     var(--jp-shadow-base-lightness),
6862     var(--jp-shadow-base-lightness),
6863     var(--jp-shadow-base-lightness),
6864     0.12
6865   );
6866   --jp-elevation-z0: none;
6867   --jp-elevation-z1: 0 2px 1px -1px var(--jp-shadow-umbra-color),
6868     0 1px 0 var(--jp-shadow-penumbra-color),
6869     0 1px 3px 0 var(--jp-shadow-ambient-color);
6870   --jp-elevation-z2: 0 3px 1px -2px var(--jp-shadow-umbra-color),
6871     0 2px 2px 0 var(--jp-shadow-penumbra-color),
6872     0 1px 5px 0 var(--jp-shadow-ambient-color);
6873   --jp-elevation-z4: 0 2px 4px -1px var(--jp-shadow-umbra-color),
6874     0 4px 5px 0 var(--jp-shadow-penumbra-color),
6875     0 1px 10px 0 var(--jp-shadow-ambient-color);
6876   --jp-elevation-z6: 0 3px 5px -1px var(--jp-shadow-umbra-color),
6877     0 6px 10px 0 var(--jp-shadow-penumbra-color),
6878     0 1px 18px 0 var(--jp-shadow-ambient-color);
6879   --jp-elevation-z8: 0 5px 5px -3px var(--jp-shadow-umbra-color),
6880     0 8px 10px 1px var(--jp-shadow-penumbra-color),
6881     0 3px 14px 2px var(--jp-shadow-ambient-color);
6882   --jp-elevation-z12: 0 7px 8px -4px var(--jp-shadow-umbra-color),
6883     0 12px 17px 2px var(--jp-shadow-penumbra-color),
6884     0 5px 22px 4px var(--jp-shadow-ambient-color);
6885   --jp-elevation-z16: 0 8px 10px -5px var(--jp-shadow-umbra-color),
6886     0 16px 24px 2px var(--jp-shadow-penumbra-color),
6887     0 6px 30px 5px var(--jp-shadow-ambient-color);
6888   --jp-elevation-z20: 0 10px 13px -6px var(--jp-shadow-umbra-color),
6889     0 20px 31px 3px var(--jp-shadow-penumbra-color),
6890     0 8px 38px 7px var(--jp-shadow-ambient-color);
6891   --jp-elevation-z24: 0 11px 15px -7px var(--jp-shadow-umbra-color),
6892     0 24px 38px 3px var(--jp-shadow-penumbra-color),
6893     0 9px 46px 8px var(--jp-shadow-ambient-color);
6894
6895   /* Borders
6896   *
6897   * The following variables, specify the visual styling of borders in JupyterLab.
6898   */
6899
6900   --jp-border-width: 1px;
6901   --jp-border-color0: var(--md-grey-400);
6902   --jp-border-color1: var(--md-grey-400);
6903   --jp-border-color2: var(--md-grey-300);
6904   --jp-border-color3: var(--md-grey-200);
6905   --jp-inverse-border-color: var(--md-grey-600);
6906   --jp-border-radius: 2px;
6907
6908   /* UI Fonts
6909   *
6910   * The UI font CSS variables are used for the typography all of the JupyterLab
6911   * user interface elements that are not directly user generated content.

```

```

6912 *
6913 * The font sizing here is done assuming that the body font size of --jp-ui-font-size1
6914 * is applied to a parent element. When children elements, such as headings, are sized
6915 * in em all things will be computed relative to that body size.
6916 */
6917
6918 --jp-ui-font-scale-factor: 1.2;
6919 --jp-ui-font-size0: 0.83333em;
6920 --jp-ui-font-size1: 13px; /* Base font size */
6921 --jp-ui-font-size2: 1.2em;
6922 --jp-ui-font-size3: 1.44em;
6923 --jp-ui-font-family: system-ui, -apple-system, blinkmacsystemfont, 'Segoe UI',
6924 helvetica, arial, sans-serif, 'Apple Color Emoji', 'Segoe UI Emoji',
6925 'Segoe UI Symbol';
6926
6927 /*
6928 * Use these font colors against the corresponding main layout colors.
6929 * In a light theme, these go from dark to light.
6930 */
6931
6932 /* Defaults use Material Design specification */
6933 --jp-ui-font-color0: rgba(0, 0, 0, 1);
6934 --jp-ui-font-color1: rgba(0, 0, 0, 0.87);
6935 --jp-ui-font-color2: rgba(0, 0, 0, 0.54);
6936 --jp-ui-font-color3: rgba(0, 0, 0, 0.38);
6937
6938 /*
6939 * Use these against the brand/accent/warn/error colors.
6940 * These will typically go from light to darker, in both a dark and light theme.
6941 */
6942
6943 --jp-ui-inverse-font-color0: rgba(255, 255, 255, 1);
6944 --jp-ui-inverse-font-color1: rgba(255, 255, 255, 1);
6945 --jp-ui-inverse-font-color2: rgba(255, 255, 255, 0.7);
6946 --jp-ui-inverse-font-color3: rgba(255, 255, 255, 0.5);
6947
6948 /* Content Fonts
6949 */
6950 * Content font variables are used for typography of user generated content.
6951 *
6952 * The font sizing here is done assuming that the body font size of --jp-content-font-size1
6953 * is applied to a parent element. When children elements, such as headings, are sized
6954 * in em all things will be computed relative to that body size.
6955 */
6956
6957 --jp-content-line-height: 1.6;
6958 --jp-content-font-scale-factor: 1.2;
6959 --jp-content-font-size0: 0.83333em;
6960 --jp-content-font-size1: 14px; /* Base font size */
6961 --jp-content-font-size2: 1.2em;
6962 --jp-content-font-size3: 1.44em;
6963 --jp-content-font-size4: 1.728em;
6964 --jp-content-font-size5: 2.0736em;
6965
6966 /* This gives a magnification of about 125% in presentation mode over normal. */
6967 --jp-content-presentation-font-size1: 17px;
6968 --jp-content-heading-line-height: 1;
6969 --jp-content-heading-margin-top: 1.2em;
6970 --jp-content-heading-margin-bottom: 0.8em;
6971 --jp-content-heading-font-weight: 500;
6972
6973 /* Defaults use Material Design specification */
6974 --jp-content-font-color0: rgba(0, 0, 0, 1);
6975 --jp-content-font-color1: rgba(0, 0, 0, 0.87);
6976 --jp-content-font-color2: rgba(0, 0, 0, 0.54);
6977 --jp-content-font-color3: rgba(0, 0, 0, 0.38);
6978 --jp-content-link-color: var(--md-blue-900);
6979 --jp-content-font-family: system-ui, -apple-system, blinkmacsystemfont,
6980 'Segoe UI', helvetica, arial, sans-serif, 'Apple Color Emoji',
6981 'Segoe UI Emoji', 'Segoe UI Symbol';
6982
6983 /*
6984 * Code Fonts
6985 */
6986 * Code font variables are used for typography of code and other monospaces content.
6987 */

```

```
6988  
6989 --jp-code-font-size: 13px;  
6990 --jp-code-line-height: 1.3077; /* 17px for 13px base */  
6991 --jp-code-padding: 5px; /* 5px for 13px base, codemirror highlighting needs integer px value */  
6992 --jp-code-font-family-default: menlo, consolas, 'DejaVu Sans Mono', monospace;  
6993 --jp-code-font-family: var(--jp-code-font-family-default);  
6994  
6995 /* This gives a magnification of about 125% in presentation mode over normal. */  
6996 --jp-code-presentation-font-size: 16px;  
6997  
6998 /* may need to tweak cursor width if you change font size */  
6999 --jp-code-cursor-width0: 1.4px;  
7000 --jp-code-cursor-width1: 2px;  
7001 --jp-code-cursor-width2: 4px;  
7002  
7003 /* Layout  
7004 *  
7005 * The following are the main layout colors use in JupyterLab. In a light  
7006 * theme these would go from light to dark.  
7007 */  
7008  
7009 --jp-layout-color0: white;  
7010 --jp-layout-color1: white;  
7011 --jp-layout-color2: var(--md-grey-200);  
7012 --jp-layout-color3: var(--md-grey-400);  
7013 --jp-layout-color4: var(--md-grey-600);  
7014  
7015 /* Inverse Layout  
7016 *  
7017 * The following are the inverse layout colors use in JupyterLab. In a light  
7018 * theme these would go from dark to light.  
7019 */  
7020  
7021 --jp-inverse-layout-color0: #111;  
7022 --jp-inverse-layout-color1: var(--md-grey-900);  
7023 --jp-inverse-layout-color2: var(--md-grey-800);  
7024 --jp-inverse-layout-color3: var(--md-grey-700);  
7025 --jp-inverse-layout-color4: var(--md-grey-600);  
7026  
7027 /* Brand/accent */  
7028  
7029 --jp-brand-color0: var(--md-blue-900);  
7030 --jp-brand-color1: var(--md-blue-700);  
7031 --jp-brand-color2: var(--md-blue-300);  
7032 --jp-brand-color3: var(--md-blue-100);  
7033 --jp-brand-color4: var(--md-blue-50);  
7034 --jp-accent-color0: var(--md-green-900);  
7035 --jp-accent-color1: var(--md-green-700);  
7036 --jp-accent-color2: var(--md-green-300);  
7037 --jp-accent-color3: var(--md-green-100);  
7038  
7039 /* State colors (warn, error, success, info) */  
7040  
7041 --jp-warn-color0: var(--md-orange-900);  
7042 --jp-warn-color1: var(--md-orange-700);  
7043 --jp-warn-color2: var(--md-orange-300);  
7044 --jp-warn-color3: var(--md-orange-100);  
7045 --jp-error-color0: var(--md-red-900);  
7046 --jp-error-color1: var(--md-red-700);  
7047 --jp-error-color2: var(--md-red-300);  
7048 --jp-error-color3: var(--md-red-100);  
7049 --jp-success-color0: var(--md-green-900);  
7050 --jp-success-color1: var(--md-green-700);  
7051 --jp-success-color2: var(--md-green-300);  
7052 --jp-success-color3: var(--md-green-100);  
7053 --jp-info-color0: var(--md-cyan-900);  
7054 --jp-info-color1: var(--md-cyan-700);  
7055 --jp-info-color2: var(--md-cyan-300);  
7056 --jp-info-color3: var(--md-cyan-100);  
7057  
7058 /* Cell specific styles */  
7059  
7060 --jp-cell-padding: 5px;  
7061 --jp-cell-collapser-width: 8px;  
7062 --jp-cell-collapser-min-height: 20px;  
7063 --jp-cell-collapser-not-active-hover-opacity: 0.6;
```

```
7064 --jp-cell-editor-background: var(--md-grey-100);  
7065 --jp-cell-editor-border-color: var(--md-grey-300);  
7066 --jp-cell-editor-box-shadow: inset 0 0 2px var(--md-blue-300);  
7067 --jp-cell-editor-active-background: var(--jp-layout-color0);  
7068 --jp-cell-editor-active-border-color: var(--jp-brand-color1);  
7069 --jp-cell-prompt-width: 64px;  
7070 --jp-cell-prompt-font-family: var(--jp-code-font-family-default);  
7071 --jp-cell-prompt-letter-spacing: 0;  
7072 --jp-cell-prompt-opacity: 1;  
7073 --jp-cell-prompt-not-active-opacity: 0.5;  
7074 --jp-cell-prompt-not-active-font-color: var(--md-grey-700);  
7075  
7076 /* A custom blend of MD grey and blue 600  
7077 * See https://meyerweb.com/eric/tools/color-blend/#546E7A:1E88E5:5:hex */  
7078 --jp-cell-inprompt-font-color: #307fc1;  
7079  
7080 /* A custom blend of MD grey and orange 600  
7081 * https://meyerweb.com/eric/tools/color-blend/#546E7A:F4511E:5:hex */  
7082 --jp-cell-outprompt-font-color: #bf5b3d;  
7083  
7084 /* Notebook specific styles */  
7085  
7086 --jp-notebook-padding: 10px;  
7087 --jp-notebook-select-background: var(--jp-layout-color1);  
7088 --jp-notebook-multiselect-color: var(--md-blue-50);  
7089  
7090 /* The scroll padding is calculated to fill enough space at the bottom of the  
7091 notebook to show one single-line cell (with appropriate padding) at the top  
7092 when the notebook is scrolled all the way to the bottom. We also subtract one  
7093 pixel so that no scrollbar appears if we have just one single-line cell in the  
7094 notebook. This padding is to enable a 'scroll past end' feature in a notebook.  
7095 */  
7096 --jp-notebook-scroll-padding: calc(  
7097   100% - var(--jp-code-font-size) * var(--jp-code-line-height) -  
7098     var(--jp-code-padding) - var(--jp-cell-padding) - 1px  
7099 );  
7100  
7101 /* Rendermime styles */  
7102  
7103 --jp-rendermime-error-background: #fdd;  
7104 --jp-rendermime-table-row-background: var(--md-grey-100);  
7105 --jp-rendermime-table-row-hover-background: var(--md-light-blue-50);  
7106  
7107 /* Dialog specific styles */  
7108  
7109 --jp-dialog-background: rgba(0, 0, 0, 0.25);  
7110  
7111 /* Console specific styles */  
7112  
7113 --jp-console-padding: 10px;  
7114  
7115 /* Toolbar specific styles */  
7116  
7117 --jp-toolbar-border-color: var(--jp-border-color1);  
7118 --jp-toolbar-micro-height: 8px;  
7119 --jp-toolbar-background: var(--jp-layout-color1);  
7120 --jp-toolbar-box-shadow: 0 0 2px 0 rgba(0, 0, 0, 0.24);  
7121 --jp-toolbar-header-margin: 4px 4px 0 4px;  
7122 --jp-toolbar-active-background: var(--md-grey-300);  
7123  
7124 /* Statusbar specific styles */  
7125  
7126 --jp-statusbar-height: 24px;  
7127  
7128 /* Input field styles */  
7129  
7130 --jp-input-box-shadow: inset 0 0 2px var(--md-blue-300);  
7131 --jp-input-active-background: var(--jp-layout-color1);  
7132 --jp-input-hover-background: var(--jp-layout-color1);  
7133 --jp-input-background: var(--md-grey-100);  
7134 --jp-input-border-color: var(--jp-inverse-border-color);  
7135 --jp-input-active-border-color: var(--jp-brand-color1);  
7136 --jp-input-active-box-shadow-color: rgba(19, 124, 189, 0.3);  
7137  
7138 /* General editor styles */  
7139
```

```
7140 --jp-editor-selected-background: #d9d9d9;
7141 --jp-editor-selected-focused-background: #d7d4f0;
7142 --jp-editor-cursor-color: var(--jp-ui-font-color0);
7143
7144 /* Code mirror specific styles */
7145
7146 --jp-mirror-editor-keyword-color: #008000;
7147 --jp-mirror-editor-atom-color: #88f;
7148 --jp-mirror-editor-number-color: #080;
7149 --jp-mirror-editor-def-color: #00f;
7150 --jp-mirror-editor-variable-color: var(--md-grey-900);
7151 --jp-mirror-editor-variable-2-color: rgb(0, 54, 109);
7152 --jp-mirror-editor-variable-3-color: #085;
7153 --jp-mirror-editor-punctuation-color: #05a;
7154 --jp-mirror-editor-property-color: #05a;
7155 --jp-mirror-editor-operator-color: #a2f;
7156 --jp-mirror-editor-comment-color: #408080;
7157 --jp-mirror-editor-string-color: #ba2121;
7158 --jp-mirror-editor-string-2-color: #708;
7159 --jp-mirror-editor-meta-color: #a2f;
7160 --jp-mirror-editor-qualifier-color: #555;
7161 --jp-mirror-editor-built-in-color: #008000;
7162 --jp-mirror-editor-bracket-color: #997;
7163 --jp-mirror-editor-tag-color: #170;
7164 --jp-mirror-editor-attribute-color: #00c;
7165 --jp-mirror-editor-header-color: blue;
7166 --jp-mirror-editor-quote-color: #090;
7167 --jp-mirror-editor-link-color: #00c;
7168 --jp-mirror-editor-error-color: #f00;
7169 --jp-mirror-editor-hr-color: #999;
7170
7171 /*
7172   RTC user specific colors.
7173   These colors are used for the cursor, username in the editor,
7174   and the icon of the user.
7175 */
7176
7177 --jp-collaborator-color1: #ffad8e;
7178 --jp-collaborator-color2: #dac83d;
7179 --jp-collaborator-color3: #72dd76;
7180 --jp-collaborator-color4: #00e4d0;
7181 --jp-collaborator-color5: #45d4ff;
7182 --jp-collaborator-color6: #e2b1ff;
7183 --jp-collaborator-color7: #ff9de6;
7184
7185 /* Vega extension styles */
7186
7187 --jp-vega-background: white;
7188
7189 /* Sidebar-related styles */
7190
7191 --jp-sidebar-min-width: 250px;
7192
7193 /* Search-related styles */
7194
7195 --jp-search-toggle-off-opacity: 0.5;
7196 --jp-search-toggle-hover-opacity: 0.8;
7197 --jp-search-toggle-on-opacity: 1;
7198 --jp-search-selected-match-background-color: rgb(245, 200, 0);
7199 --jp-search-selected-match-color: black;
7200 --jp-search-unselected-match-background-color: var(
7201   --jp-inverse-layout-color0
7202 );
7203 --jp-search-unselected-match-color: var(--jp-ui-inverse-font-color0);
7204
7205 /* Icon colors that work well with light or dark backgrounds */
7206 --jp-icon-contrast-color0: var(--md-purple-600);
7207 --jp-icon-contrast-color1: var(--md-green-600);
7208 --jp-icon-contrast-color2: var(--md-pink-600);
7209 --jp-icon-contrast-color3: var(--md-blue-600);
7210
7211 /* Button colors */
7212 --jp-accept-color-normal: var(--md-blue-700);
7213 --jp-accept-color-hover: var(--md-blue-800);
7214 --jp-accept-color-active: var(--md-blue-900);
7215 --jp-warn-color-normal: var(--md-red-700);
```

```
7216 --jp-warn-color-hover: var(--md-red-800);  
7217 --jp-warn-color-active: var(--md-red-900);  
7218 --jp-reject-color-normal: var(--md-grey-600);  
7219 --jp-reject-color-hover: var(--md-grey-700);  
7220 --jp-reject-color-active: var(--md-grey-800);  
7221  
7222 /* File or activity icons and switch semantic variables */  
7223 --jp-jupyter-icon-color: #f37626;  
7224 --jp-notebook-icon-color: #f37626;  
7225 --jp-json-icon-color: var(--md-orange-700);  
7226 --jp-console-icon-background-color: var(--md-blue-700);  
7227 --jp-console-icon-color: white;  
7228 --jp-terminal-icon-background-color: var(--md-grey-800);  
7229 --jp-terminal-icon-color: var(--md-grey-200);  
7230 --jp-text-editor-icon-color: var(--md-grey-700);  
7231 --jp-inspector-icon-color: var(--md-grey-700);  
7232 --jp-switch-color: var(--md-grey-400);  
7233 --jp-switch-true-position-color: var(--md-orange-900);  
7234 }  
7235 </style>  
7236 <style type="text/css">  
7237 /* Force rendering true colors when outputting to pdf */  
7238 * {  
7239   -webkit-print-color-adjust: exact;  
7240 }  
7241  
7242 /* Misc */  
7243 a.anchor-link {  
7244   display: none;  
7245 }  
7246  
7247 /* Input area styling */  
7248 .jp-InputArea {  
7249   overflow: hidden;  
7250 }  
7251  
7252 .jp-InputArea-editor {  
7253   overflow: hidden;  
7254 }  
7255  
7256 .cm-editor.cm-s-jupyter .highlight pre {  
7257 /* weird, but --jp-code-padding defined to be 5px but 4px horizontal padding is hardcoded for pre.cm-line */  
7258   padding: var(--jp-code-padding) 4px;  
7259   margin: 0;  
7260  
7261   font-family: inherit;  
7262   font-size: inherit;  
7263   line-height: inherit;  
7264   color: inherit;  
7265 }  
7266  
7267  
7268 .jp-OutputArea-output pre {  
7269   line-height: inherit;  
7270   font-family: inherit;  
7271 }  
7272  
7273 .jp-RenderedText pre {  
7274   color: var(--jp-content-font-color1);  
7275   font-size: var(--jp-code-font-size);  
7276 }  
7277  
7278 /* Hiding the collapser by default */  
7279 .jp-Collapser {  
7280   display: none;  
7281 }  
7282  
7283 @page {  
7284   margin: 0.5in; /* Margin for each printed piece of paper */  
7285 }  
7286  
7287 @media print {  
7288   .jp-Cell-inputWrapper,  
7289   .jp-Cell-outputWrapper {  
7290     display: block;  
7291   }
```

```
7292 }
7293 </style>
7294 <!-- Load mathjax -->
7295 <script src="https://cdnjs.cloudflare.com/ajax/libs/mathjax/2.7.7/latest.js?config=TeX-AMS_CHTML-full, Safe"> </script>
7296 <!-- MathJax configuration -->
7297 <script type="text/x-mathjax-config">
7298     init_mathjax = function() {
7299         if (window.MathJax) {
7300             // MathJax loaded
7301             MathJax.Hub.Config({
7302                 TeX: {
7303                     equationNumbers: {
7304                         autoNumber: "AMS",
7305                         useLabelIds: true
7306                     }
7307                 },
7308                 tex2jax: {
7309                     inlineMath: [ ['$','$'], ["\\(","\\)"] ],
7310                     displayMath: [ ['$$', '$$'], ["\\[","\\]"] ],
7311                     processEscapes: true,
7312                     processEnvironments: true
7313                 },
7314                 displayAlign: 'center',
7315                 messageStyle: 'none',
7316                 CommonHTML: {
7317                     linebreaks: {
7318                         automatic: true
7319                     }
7320                 }
7321             });
7322
7323             MathJax.Hub.Queue(["Typeset", MathJax.Hub]);
7324         }
7325     }
7326     init_mathjax();
7327 </script>
7328 <!-- End of mathjax configuration --><script type="module">
7329 document.addEventListener("DOMContentLoaded", async () => {
7330     const diagrams = document.querySelectorAll(".jp-Mermaid > pre.mermaid");
7331     // do not load mermaidjs if not needed
7332     if (!diagrams.length) {
7333         return;
7334     }
7335     const mermaid = (await import("https://cdnjs.cloudflare.com/ajax/libs/mermaid/10.7.0/mermaid.esm.min.mjs")).default;
7336     const parser = new DOMParser();
7337
7338     mermaid.initialize({
7339         maxTextSize: 100000,
7340         maxEdges: 100000,
7341         startOnLoad: false,
7342         fontFamily: window
7343             .getComputedStyle(document.body)
7344             .getPropertyValue("--jp-ui-font-family"),
7345         theme: document.querySelector("body[data-jp-theme-light='true']")
7346             ? "default"
7347             : "dark",
7348     });
7349
7350     let _nextMermaidId = 0;
7351
7352     function makeMermaidImage(svg) {
7353         const img = document.createElement("img");
7354         const doc = parser.parseFromString(svg, "image/svg+xml");
7355         const svgEl = doc.querySelector("svg");
7356         const { maxWidth } = svgEl.style || {};
7357         const firstTitle = doc.querySelector("title");
7358         const firstDesc = doc.querySelector("desc");
7359
7360         img.setAttribute("src", `data:image/svg+xml,${encodeURIComponent(svg)}`);
7361         if (maxWidth) {
7362             img.width = parseInt(maxWidth);
7363         }
7364         if (firstTitle) {
7365             img.setAttribute("alt", firstTitle.textContent);
7366         }
7367         if (firstDesc) {
```

```

7368     const caption = document.createElement("figcaption");
7369     caption.className = "sr-only";
7370     caption.textContent = firstDesc.textContent;
7371     return [img, caption];
7372   }
7373   return [img];
7374 }
7375
7376 async function makeMermaidError(text) {
7377   let errorMessage = "";
7378   try {
7379     await mermaid.parse(text);
7380   } catch (err) {
7381     errorMessage = `${err}`;
7382   }
7383
7384   const result = document.createElement("details");
7385   result.className = 'jp-RenderedMermaid-Details';
7386   const summary = document.createElement("summary");
7387   summary.className = 'jp-RenderedMermaid-Summary';
7388   const pre = document.createElement("pre");
7389   const code = document.createElement("code");
7390   code.innerText = text;
7391   pre.appendChild(code);
7392   summary.appendChild(pre);
7393   result.appendChild(summary);
7394
7395   const warning = document.createElement("pre");
7396   warning.innerText = errorMessage;
7397   result.appendChild(warning);
7398   return [result];
7399 }
7400
7401 async function renderOneMermaid(src) {
7402   const id = `jp-mermaid-${_nextMermaidId++}`;
7403   const parent = src.parentNode;
7404   let raw = src.textContent.trim();
7405   const el = document.createElement("div");
7406   el.style.visibility = "hidden";
7407   document.body.appendChild(el);
7408   let results = null;
7409   let output = null;
7410   try {
7411     let { svg } = await mermaid.render(id, raw, el);
7412     svg = cleanMermaidSvg(svg);
7413     results = makeMermaidImage(svg);
7414     output = document.createElement("figure");
7415     results.map(output.appendChild, output);
7416   } catch (err) {
7417     parent.classList.add("jp-mod-warning");
7418     results = await makeMermaidError(raw);
7419     output = results[0];
7420   } finally {
7421     el.remove();
7422   }
7423   parent.classList.add("jp-RenderedMermaid");
7424   parent.appendChild(output);
7425 }
7426
7427
7428 /**
7429 * Post-process to ensure mermaid diagrams contain only valid SVG and XHTML.
7430 */
7431 function cleanMermaidSvg(svg) {
7432   return svg.replace(RE_VOID_ELEMENT, replaceVoidElement);
7433 }
7434
7435 /**
7436 * A regular expression for all void elements, which may include attributes and
7437 * a slash.
7438 *
7439 * @see https://developer.mozilla.org/en-US/docs/Glossary/Void_element
7440 *
7441 * Of these, only `<br>` is generated by Mermaid in place of `'\n'`,
7442 * but _any_ "malformed" tag will break the SVG rendering entirely.
7443 */

```

```
7444      */
7445  const RE_VOID_ELEMENT =
7446    /<\s*(area|base|br|embed|hr|img|input|link|meta|param|source|track|wbr)\s*([>]*?)\s*/gi;
7447
7448 /**
7449 * Ensure a void element is closed with a slash, preserving any attributes.
7450 */
7451 function replaceVoidElement(match, tag, rest) {
7452   rest = rest.trim();
7453   if (!rest.endsWith('/')) {
7454     rest = `${rest} `/`;
7455   }
7456   return `<${tag} ${rest}>`;
7457 }
7458
7459 void Promise.all([...diagrams].map(renderOneMarmmaid));
7460 });
7461</script>
7462<style>
7463 .jp-Mermaid:not(.jp-RenderedMermaid) {
7464   display: none;
7465 }
7466
7467 .jp-RenderedMermaid {
7468   overflow: auto;
7469   display: flex;
7470 }
7471
7472 .jp-RenderedMermaid.jp-mod-warning {
7473   width: auto;
7474   padding: 0.5em;
7475   margin-top: 0.5em;
7476   border: var(--jp-border-width) solid var(--jp-warn-color2);
7477   border-radius: var(--jp-border-radius);
7478   color: var(--jp-ui-font-color1);
7479   font-size: var(--jp-ui-font-size1);
7480   white-space: pre-wrap;
7481   word-wrap: break-word;
7482 }
7483
7484 .jp-RenderedMermaid figure {
7485   margin: 0;
7486   overflow: auto;
7487   max-width: 100%;
7488 }
7489
7490 .jp-RenderedMermaid img {
7491   max-width: 100%;
7492 }
7493
7494 .jp-RenderedMermaid-Details > pre {
7495   margin-top: 1em;
7496 }
7497
7498 .jp-RenderedMermaid-Summary {
7499   color: var(--jp-warn-color2);
7500 }
7501
7502 .jp-RenderedMermaid:not(.jp-mod-warning) pre {
7503   display: none;
7504 }
7505
7506 .jp-RenderedMermaid-Summary > pre {
7507   display: inline-block;
7508   white-space: normal;
7509 }
7510</style>
7511<!-- End of mermaid configuration --></head>
7512<body class="jp-Notebook" data-jp-theme-light="true" data-jp-theme-name="JupyterLab Light">
7513<main><div class="jp-Cell jp-CodeCell jp-Notebook-cell jp-mod-noOutputs" id="cell-id=4066ac3f">
7514<div class="jp-Cell-inputWrapper" tabindex="0">
7515<div class="jp-Collapser jp-InputCollapser jp-Cell-inputCollapser">
7516</div>
7517<div class="jp-InputArea jp-Cell-inputArea">
7518<div class="jp-InputPrompt jp-InputArea-prompt">In [61]:</div>
7519<div class="jp-CodeMirrorEditor jp-Editor jp-InputArea-editor" data-type="inline">
```

```

7520 <div class="cm-editor cm-s-jupyter">
7521 <div class="highlight hl-ipython3"><pre><span></span><span class="kn">import</span><span class="w"> </span><span class="nn">pandas</span><span c:
7522 <span class="w"> </span><span class="nn">pd</span>
7523 <span class="kn">import</span><span class="w"> </span><span class="nn">numpy</span><span class="w"> </span><span class="k">as</span><span class=
7524 <span class="kn">import</span><span class="w"> </span><span class="nn">matplotlib.pyplot</span><span class="w"> </span><span class="k">as</span>
7525 <span class="nn">plt</span>
7526 <span class="kn">import</span><span class="w"> </span><span class="nn">seaborn</span><span class="w"> </span><span class="k">as</span><span clas:
7527 <span class="n">sns</span><span class="o">.</span><span class="n">set</span><span class="p">(</span><span class="n">style</span><span class="o">:
7528 </pre></div>
7529 </div>
7530 </div>
7531 </div>
7532 </div><div class="jp-Cell jp-CodeCell jp-Notebook-cell jp-mod-noOutputs" id="cell-id=20dd5080">
7533 <div class="jp-Cell-inputWrapper" tabindex="0">
7534 <div class="jp-Collapser jp-InputCollapser jp-Cell-inputCollapser">
7535 </div>
7536 <div class="jp-InputArea jp-Cell-inputArea">
7537 <div class="jp-InputPrompt jp-InputArea-prompt">In [62]:</div>
7538 <div class="jp-CodeMirrorEditor jp-Editor jp-InputArea-editor" data-type="inline">
7539 <div class="cm-editor cm-s-jupyter">
7540 <div class="highlight hl-ipython3"><pre><span></span><span class="n">transaction_df</span> <span class="o">=</span> <span class="n">pd</span><span class="n">read_excel</span><span class="p">(</span><span class="s2">"QVI_transaction_data.xlsx"</span><span class="p">)</span>
7541 <span class="n">customer_df</span> <span class="o">=</span> <span class="n">pd</span><span class="o">.</span><span class="n">read_csv</span><span class="s2">"QVI_purchase_behaviour.csv"</span><span class="p">)</span>
7542 </pre></div>
7543 </div>
7544 </div>
7545 </div>
7546 </div>
7547 </div>
7548 </div><div class="jp-Cell jp-CodeCell jp-Notebook-cell" id="cell-id=5fc94f3b">
7549 <div class="jp-Cell-inputWrapper" tabindex="0">
7550 <div class="jp-Collapser jp-InputCollapser jp-Cell-inputCollapser">
7551 </div>
7552 <div class="jp-InputArea jp-Cell-inputArea">
7553 <div class="jp-InputPrompt jp-InputArea-prompt">In [63]:</div>
7554 <div class="jp-CodeMirrorEditor jp-Editor jp-InputArea-editor" data-type="inline">
7555 <div class="cm-editor cm-s-jupyter">
7556 <div class="highlight hl-ipython3"><pre><span></span><span class="n">transaction_df</span><span class="o">.</span><span class="n">head</span><span class="o">(</span>
7557 <span class="n">transaction_df</span><span class="o">.</span><span class="n">info</span><span class="p">()</span>
7558 <span class="n">customer_df</span><span class="o">.</span><span class="n">head</span><span class="p">()</span>
7559 <span class="n">customer_df</span><span class="o">.</span><span class="n">info</span><span class="p">()</span>
7560 </pre></div>
7561 </div>
7562 </div>
7563 </div>
7564 </div>
7565 </div>
7566 </div>
7567 </div>
7568 <div class="jp-Cell-outputWrapper">
7569 <div class="jp-Collapser jp-OutputCollapser jp-Cell-outputCollapser">
7570 </div>
7571 <div class="jp-OutputArea jp-Cell-outputArea">
7572 <div class="jp-OutputArea-child">
7573 <div class="jp-OutputPrompt jp-OutputArea-prompt"></div>
7574 <div class="jp-RenderedText jp-OutputArea-output" data-mime-type="text/plain" tabindex="0">
7575 <pre>&lt;class 'pandas.core.frame.DataFrame'&gt;;
7576 RangeIndex: 264836 entries, 0 to 264835
7577 Data columns (total 8 columns):
7578 #   Column            Non-Null Count  Dtype  
7579 ---  -- 
7580 0   DATE              264836 non-null  int64  
7581 1   STORE_NBR         264836 non-null  int64  
7582 2   LYLTY_CARD_NBR    264836 non-null  int64  
7583 3   TXN_ID            264836 non-null  int64  
7584 4   PROD_NBR          264836 non-null  int64  
7585 5   PROD_NAME         264836 non-null  object 
7586 6   PROD_QTY          264836 non-null  int64  
7587 7   TOT_SALES         264836 non-null  float64
7588 dtypes: float64(1), int64(6), object(1)
7589 memory usage: 16.2+ MB
7590 &lt;class 'pandas.core.frame.DataFrame'&gt;;

```

```
7591 RangeIndex: 72637 entries, 0 to 72636
7592 Data columns (total 3 columns):
7593 # Column      Non-Null Count Dtype  
7594 --- -- 
7595 0 LYLTY_CARD_NBR    72637 non-null int64  
7596 1 LIFESTAGE       72637 non-null object 
7597 2 PREMIUM_CUSTOMER 72637 non-null object 
7598 dtypes: int64(1), object(2)
7599 memory usage: 1.7+ MB
7600 </pre>
7601 </div>
7602 </div>
7603 </div>
7604 </div>
7605 </div><div class="jp-Cell jp-CodeCell jp-Notebook-cell" id="cell-id=94b4a869">
7606 <div class="jp-Cell-inputWrapper" tabindex="0">
7607 <div class="jp-Collapser jp-InputCollapser jp-Cell-inputCollapser">
7608 </div>
7609 <div class="jp-InputArea jp-Cell-inputArea">
7610 <div class="jp-InputPrompt jp-InputArea-prompt">In [64]:</div>
7611 <div class="jp-CodeMirrorEditor jp-Editor jp-InputArea-editor" data-type="inline">
7612 <div class="cm-editor cm-s-jupyter">
7613 <div class="highlight hl-ipython3"><pre><span></span><span class="c1">#Clean</span>
7614 <span class="nb">print</span><span class="p">(</span><span class="s2">"Missing values in transaction_df:"</span><span class="p">)</span>
7615 <span class="nb">print</span><span class="p">(</span><span class="n">transaction_df</span><span class="o">.</span><span class="n">isnull</span><
7616 <span class="n">sum</span><span class="p">())</span>
7617 <span class="nb">print</span><span class="p">(</span><span class="s2">"</span><span class="se">\n</span><span class="s2">Missing values in customer_df:</span><span class="p">)"</span>
7618 <span class="nb">print</span><span class="p">(</span><span class="n">customer_df</span><span class="o">.</span><span class="n">isnull</span><
7619 <span class="n">sum</span><span class="p">())</span>
7620 <span class="nb">print</span><span class="p">(</span><span class="s2">"</span><span class="se">\n</span><span class="s2">Check for zero or negative values in transaction_df:</span><span class="p">)"</span>
7621 <span class="nb">print</span><span class="p">(</span><span class="s2">"Zero or negative PROD_QTY:</span><span class="p">, </span><span class="p">[</span><span class="s1">'PROD_QTY'</span><span class="p">]</span> <span class="o">&lt;=&/span> <span class="mi">0</span><span class="p">)"</span>
7622 <span class="nb">print</span><span class="p">(</span><span class="s2">"Zero or negative TOT_SALES:</span><span class="p">, </span><span class="p">[</span><span class="s1">'TOT_SALES'</span><span class="p">]</span> <span class="o">&lt;=&/span> <span class="mi">0</span><span class="p">)"</span>
7623 <span class="nb">print</span><span class="p">(</span><span class="s2">"</span><span class="se">\n</span><span class="s2">Unique values in LIFESTAGE</span><span class="p">)"</span>
7624 <span class="nb">print</span><span class="p">(</span><span class="s2">"</span><span class="se">\n</span><span class="s2">Unique values in PREMIUM_CUSTOMER</span><span class="p">)"</span>
7625 <span class="nb">print</span><span class="p">(</span><span class="s2">"</span><span class="se">\n</span><span class="s2">Sample dates after conversion:</span><span class="p">)"</span>
7626 <span class="nb">print</span><span class="p">(</span><span class="n">transaction_df</span><span class="p">)[</span><span class="s1">'DATE'</span><span class="p">]"</span>
7627 <span class="nb">print</span><span class="p">(</span><span class="n">head</span><span class="p">())</span>
7628 <span class="nb">print</span><span class="p">(</span><span class="s2">"</span><span class="se">\n</span><span class="s2">Unique values in LIFESTAGE</span><span class="p">)"</span>
7629 <span class="nb">print</span><span class="p">(</span><span class="n">customer_df</span><span class="p">)[</span><span class="s1">'LIFESTAGE'</span><span class="p">]"</span>
7630 <span class="nb">print</span><span class="p">(</span><span class="s2">"</span><span class="se">\n</span><span class="s2">Unique values in PREMIUM_CUSTOMER</span><span class="p">)"</span>
7631 <span class="nb">print</span><span class="p">(</span><span class="s2">"</span><span class="se">\n</span><span class="s2">Unique values in STORE_NBR</span><span class="p">)"</span>
7632 <span class="nb">print</span><span class="p">(</span><span class="s2">"</span><span class="se">\n</span><span class="s2">Unique values in TXN_ID</span><span class="p">)"</span>
7633 <span class="nb">print</span><span class="p">(</span><span class="s2">"</span><span class="se">\n</span><span class="s2">Unique values in PROD_NAME</span><span class="p">)"</span>
7634 </pre></div>
7635 </div>
7636 </div>
7637 </div>
7638 </div>
7639 <div class="jp-Cell-outputWrapper">
7640 <div class="jp-Collapser jp-OutputCollapser jp-Cell-outputCollapser">
7641 </div>
7642 <div class="jp-OutputArea jp-Cell-outputArea">
7643 <div class="jp-OutputArea-child">
7644 <div class="jp-OutputPrompt jp-OutputArea-prompt"></div>
7645 <div class="jp-RenderedText jp-OutputArea-output" data-mime-type="text/plain" tabindex="0">
7646 <pre>Missing values in transaction_df:
7647 DATE          0
7648 STORE_NBR    0
7649 LYLTY_CARD_NBR 0
7650 TXN_ID        0
7651 PROD_NBR     0
7652 PROD_NAME     0
7653 PROD_QTY      0
7654 TOT_SALES     0
```

```
7655 dtype: int64
7656
7657 Missing values in customer_df:
7658 LYLTY_CARD_NBR      0
7659 LIFESTAGE          0
7660 PREMIUM_CUSTOMER   0
7661 dtype: int64
7662
7663 Check for zero or negative quantities and sales in transaction_df:
7664 Zero or negative PROD_QTY: 0
7665 Zero or negative TOT_SALES: 0
7666
7667 Sample dates after conversion:
7668 0 2018-10-17
7669 1 2019-05-14
7670 2 2019-05-20
7671 3 2018-08-17
7672 4 2018-08-18
7673 Name: DATE, dtype: datetime64[ns]
7674
7675 Unique values in LIFESTAGE:
7676 ['YOUNG SINGLES/COUPLES' 'YOUNG FAMILIES' 'OLDER SINGLES/COUPLES'
7677 'MIDAGE SINGLES/COUPLES' 'NEW FAMILIES' 'OLDER FAMILIES' 'RETIREES']
7678
7679 Unique values in PREMIUM_CUSTOMER:
7680 ['Premium' 'Mainstream' 'Budget']
7681 </pre>
7682 </div>
7683 </div>
7684 </div>
7685 </div>
7686 </div><div class="jp-Cell jp-CodeCell jp-Notebook-cell jp-mod-noOutputs" id="cell-id=94efb56a">
7687 <div class="jp-Cell-inputWrapper" tabindex="0">
7688 <div class="jp-Collapser jp-InputCollapser jp-Cell-inputCollapser">
7689 </div>
7690 <div class="jp-InputArea jp-Cell-inputArea">
7691 <div class="jp-InputPrompt jp-InputArea-prompt">In [65]:</div>
7692 <div class="jp-CodeMirrorEditor jp-Editor jp-InputArea-editor" data-type="inline">
7693 <div class="cm-editor cm-s-jupyter">
7694 <div class="highlight hl-ipython3"><pre><span></span><span class="o">=</span> <span class="n">merged_df</span> <span class="o">pd</span><span class="p">(</span><span class="n">transaction_df</span><span class="p">,</span> <span class="n">customer_df</span><span class="p">,</span> <span class="s1">'LYLTY_CARD_NBR'</span><span class="p">,</span> <span class="n">how</span><span class="o">=</span><span class="s1">'left'</span><span class="kn">import</span><span class="w"> </span><span class="nn">re</span>
7695 <span class="n">merged_df</span><span class="p">[</span><span class="s1">'PROD_NAME'</span><span class="p">]</span> <span class="o">=</span> <span class="n">[</span><span class="s1">'PROD_NAME'</span><span class="p">]</span><span class="o">.</span><span class="n">apply</span><span class="p">(</span><span class="n"></span><span class="p">:</span> <span class="n">re</span><span class="o">.</span><span class="n">sub</span><span class="p">(</span><span class="s1">'s+'</span><span class="p">,</span> <span class="s1">' '</span><span class="p">,</span> <span class="n">x</span><span class="o">.</span>())</span>
7696 </pre></div>
7697 </div>
7698 </div>
7699 </div>
7700 </div>
7701 </div>
7702 </div>
7703 </div>
7704 <div class="jp-Cell jp-MarkdownCell jp-Notebook-cell" id="cell-id=7ef1d6da">
7705 <div class="jp-Cell-inputWrapper" tabindex="0">
7706 <div class="jp-Collapser jp-InputCollapser jp-Cell-inputCollapser">
7707 </div>
7708 <div class="jp-InputArea jp-Cell-inputArea"><div class="jp-InputPrompt jp-InputArea-prompt">
7709 </div><div class="jp-RenderedHTMLCommon jp-RenderedMarkdown jp-MarkdownOutput" data-mime-type="text/markdown">
7710 <h1 id="Merging-the-two-files-and-cleaning-up-extra-spaces">Merging the two files and cleaning up extra spaces<a class="anchor-link" href="#Mergespaces">¶</a></h1>
7711 </div>
7712 </div>
7713 </div>
7714 </div><div class="jp-Cell jp-CodeCell jp-Notebook-cell" id="cell-id=17865002">
7715 <div class="jp-Cell-inputWrapper" tabindex="0">
7716 <div class="jp-Collapser jp-InputCollapser jp-Cell-inputCollapser">
7717 </div>
7718 <div class="jp-InputArea jp-Cell-inputArea">
7719 <div class="jp-InputPrompt jp-InputArea-prompt">In [66]:</div>
7720 <div class="jp-CodeMirrorEditor jp-Editor jp-InputArea-editor" data-type="inline">
7721 <div class="cm-editor cm-s-jupyter">
7722 <div class="highlight hl-ipython3"><pre><span></span><span class="n">merged_df</span><span class="o">.</span><span class="n">head</span><span class="o">.</span><span class="o">=</span><span class="s1">5</span></pre></div>
```

```
7724 </div>
7725 </div>
7726 </div>
7727 </div>
7728 <div class="jp-Cell-outputWrapper">
7729 <div class="jp-Collapser jp-OutputCollapser jp-Cell-outputCollapser">
7730 </div>
7731 <div class="jp-OutputArea jp-Cell-outputArea">
7732 <div class="jp-OutputArea-child jp-OutputArea-executeResult">
7733 <div class="jp-OutputPrompt jp-OutputArea-prompt">Out[66]:</div>
7734 <div class="jp-RenderedHTMLCommon jp-RenderedHTML jp-OutputArea-output jp-OutputArea-executeResult" data-mime-type="text/html" tabindex="0">
7735 <div>
7736 <style scoped="">
7737   .dataframe tbody tr th:only-of-type {
7738     vertical-align: middle;
7739   }
7740
7741   .dataframe tbody tr th {
7742     vertical-align: top;
7743   }
7744
7745   .dataframe thead th {
7746     text-align: right;
7747   }
7748 </style>
7749 <table border="1" class="dataframe">
7750 <thead>
7751 <tr style="text-align: right;">
7752 <th></th>
7753 <th>DATE</th>
7754 <th>STORE_NBR</th>
7755 <th>LYLTY_CARD_NBR</th>
7756 <th>TXN_ID</th>
7757 <th>PROD_NBR</th>
7758 <th>PROD_NAME</th>
7759 <th>PROD_QTY</th>
7760 <th>TOT_SALES</th>
7761 <th>LIFESTAGE</th>
7762 <th>PREMIUM_CUSTOMER</th>
7763 </tr>
7764 </thead>
7765 <tbody>
7766 <tr>
7767 <th>0</th>
7768 <td>2018-10-17</td>
7769 <td>1</td>
7770 <td>1000</td>
7771 <td>1</td>
7772 <td>5</td>
7773 <td>Natural Chip Comnpy SeaSalt175g</td>
7774 <td>2</td>
7775 <td>6.0</td>
7776 <td>YOUNG SINGLES/COUPLES</td>
7777 <td>Premium</td>
7778 </tr>
7779 <tr>
7780 <th>1</th>
7781 <td>2019-05-14</td>
7782 <td>1</td>
7783 <td>1307</td>
7784 <td>348</td>
7785 <td>66</td>
7786 <td>CCs Nacho Cheese 175g</td>
7787 <td>3</td>
7788 <td>6.3</td>
7789 <td>MIDAGE SINGLES/COUPLES</td>
7790 <td>Budget</td>
7791 </tr>
7792 <tr>
7793 <th>2</th>
7794 <td>2019-05-20</td>
7795 <td>1</td>
7796 <td>1343</td>
7797 <td>383</td>
7798 <td>61</td>
7799 <td>Smiths Crinkle Cut Chips Chicken 170g</td>
```

```
7800 <td>2</td>
7801 <td>2.9</td>
7802 <td>MIDAGE SINGLES/COUPLES</td>
7803 <td>Budget</td>
7804 </tr>
7805 <tr>
7806 <th>3</th>
7807 <td>2018-08-17</td>
7808 <td>2</td>
7809 <td>2373</td>
7810 <td>974</td>
7811 <td>69</td>
7812 <td>Smiths Chip Thinly S/Cream&amp;Onion 175g</td>
7813 <td>5</td>
7814 <td>15.0</td>
7815 <td>MIDAGE SINGLES/COUPLES</td>
7816 <td>Budget</td>
7817 </tr>
7818 <tr>
7819 <th>4</th>
7820 <td>2018-08-18</td>
7821 <td>2</td>
7822 <td>2426</td>
7823 <td>1038</td>
7824 <td>108</td>
7825 <td>Kettle Tortilla ChpsHny&amp;Jlpno Chili 150g</td>
7826 <td>3</td>
7827 <td>13.8</td>
7828 <td>MIDAGE SINGLES/COUPLES</td>
7829 <td>Budget</td>
7830 </tr>
7831 </tbody>
7832 </table>
7833 </div>
7834 </div>
7835 </div>
7836 </div>
7837 </div>
7838 </div><div class="jp-Cell jp-CodeCell jp-Notebook-cell" id="cell-id=37668d68">
7839 <div class="jp-Cell-inputWrapper" tabindex="0">
7840 <div class="jp-Collapser jp-InputCollapser jp-Cell-inputCollapser">
7841 </div>
7842 <div class="jp-InputArea jp-Cell-inputArea">
7843 <div class="jp-InputPrompt jp-InputArea-prompt">In [67]:</div>
7844 <div class="jp-CodeMirrorEditor jp-Editor jp-InputArea-editor" data-type="inline">
7845 <div class="cm-editor cm-s-jupyter">
7846 <div class="highlight hl-ipython3"><pre><span><span><span class="n">merged_df</span><span class="p">[[</span><span class="s1">'LIFESTAGE'</span
class="s1">'PREMIUM_CUSTOMER'</span><span class="p">]</span><span class="o">.</span><span class="n">isnull</span><span class="p">()</span><span
class="p">(</span></span>
7847 </pre></div>
7848 </div>
7849 </div>
7850 </div>
7851 </div>
7852 <div class="jp-Cell-outputWrapper">
7853 <div class="jp-Collapser jp-OutputCollapser jp-Cell-outputCollapser">
7854 </div>
7855 <div class="jp-OutputArea jp-Cell-outputArea">
7856 <div class="jp-OutputArea-child jp-OutputArea-executeResult">
7857 <div class="jp-OutputPrompt jp-OutputArea-prompt">Out[67]:</div>
7858 <div class="jp-RenderedText jp-OutputArea-output jp-OutputArea-executeResult" data-mime-type="text/plain" tabindex="0">
7859 <pre>LIFESTAGE          0
7860 PREMIUM_CUSTOMER      0
7861 dtype: int64</pre>
7862 </div>
7863 </div>
7864 </div>
7865 </div>
7866 </div><div class="jp-Cell jp-CodeCell jp-Notebook-cell" id="cell-id=e86d11db">
7867 <div class="jp-Cell-inputWrapper" tabindex="0">
7868 <div class="jp-Collapser jp-InputCollapser jp-Cell-inputCollapser">
7869 </div>
7870 <div class="jp-InputArea jp-Cell-inputArea">
7871 <div class="jp-InputPrompt jp-InputArea-prompt">In [68]:</div>
7872 <div class="jp-CodeMirrorEditor jp-Editor jp-InputArea-editor" data-type="inline">
7873 <div class="cm-editor cm-s-jupyter">
```

```

784 <div class="highlight hl-ipython3"><pre><span></span><span class="c1"># Units by demographic</span>
785 <span class="n">units_by_lifestage</span> <span class="o">=</span> <span class="n">merged_df</span><span class="o">.groupby</span><span class="n">lifestage</span><span class="o">['LIFESTAGE']</span><span class="p">[</span><span class="s1">'PROD_QTY'</span><span class="p">]</span><span class="o">.</span><span class="n">sort_values</span><span class="p">(</span><span class="n">ascending</span><span class="o">)=</span><span class="n">units_by_lifestage</span><span class="p">)</span>
786 <span class="nb">print</span><span class="p">(</span><span class="n">units_by_lifestage</span><span class="p">)</span>
787 </pre></div>
788 </div>
789 </div>
790 </div>
791 </div>
792 <div class="jp-Cell-outputWrapper">
793 <div class="jp-Collapser jp-OutputCollapser jp-Cell-outputCollapser">
794 </div>
795 <div class="jp-OutputArea jp-Cell-outputArea">
796 <div class="jp-OutputArea-child">
797 <div class="jp-OutputPrompt jp-OutputArea-prompt"></div>
798 <div class="jp-RenderedText jp-OutputArea-output" data-mime-type="text/plain" tabindex="0">
799 <pre>LIFESTAGE
800 OLDER SINGLES/COUPLES      104203
801 OLDER FAMILIES            94992
802 RETIREES                  94166
803 YOUNG FAMILIES           84561
804 YOUNG SINGLES/COUPLES    66634
805 MIDAGE SINGLES/COUPLES   47721
806 NEW FAMILIES              12847
807 Name: PROD_QTY, dtype: int64
808 </pre>
809 </div>
810 </div>
811 </div>
812 </div>
813 </div><div class="jp-Cell jp-CodeCell jp-Notebook-cell" id="cell-id=b77a8b80">
814 <div class="jp-Cell-inputWrapper" tabindex="0">
815 <div class="jp-Collapser jp-InputCollapser jp-Cell-inputCollapser">
816 </div>
817 <div class="jp-InputArea jp-Cell-inputArea">
818 <div class="jp-InputPrompt jp-InputArea-prompt">In [69]:</div>
819 <div class="jp-CodeMirrorEditor jp-Editor jp-InputArea-editor" data-type="inline">
820 <div class="cm-editor cm-s-jupyter">
821 <div class="highlight hl-ipython3"><pre><span></span><span class="c1"># Total Sales $ by Demographic</span>
822 <span class="n">sales_by_lifestage</span> <span class="o">=</span> <span class="n">merged_df</span><span class="o">.groupby</span><span class="n">lifestage</span><span class="o">['TOT_SALES']</span><span class="p">[</span><span class="s1">'TOT_SALES'</span><span class="p">]</span><span class="o">.</span><span class="n">sort_values</span><span class="p">(</span><span class="n">ascending</span><span class="o">)=</span><span class="n">sales_by_lifestage</span><span class="p">)</span>
823 <span class="nb">print</span><span class="p">(</span><span class="n">sales_by_lifestage</span><span class="p">)</span>
824 </pre></div>
825 </div>
826 </div>
827 </div>
828 </div>
829 </div>
830 </div>
831 </div>
832 </div>
833 </div>
834 </div>
835 </div>
836 </div>
837 </div>
838 </div>
839 </div>
840 </div><div class="jp-Cell jp-CodeCell jp-Notebook-cell" id="cell-id=08c836ba">
841 <div class="jp-Cell-inputWrapper" tabindex="0">
842 <div class="jp-Collapser jp-InputCollapser jp-Cell-inputCollapser">
843 </div>
844 <div class="jp-InputArea jp-Cell-inputArea">
845 <div class="jp-InputPrompt jp-InputArea-prompt">In [70]:</div>

```

```

7946 <div class="jp-CodeMirrorEditor jp-Editor jp-InputArea-editor" data-type="inline">
7947 <div class="cm-editor cm-s-jupyter">
7948 <div class="highlight hl-ipython3"><pre><span></span><span class="c1">#Quantity by Customer Type</span>
7949 <span class="n">avg_qty_by_customer</span> <span class="o">>=</span> <span class="n">merged_df</span><span class="o">>.</span><span class="n">groupby</span>
7950 <span class="s1">'PREMIUM_CUSTOMER'</span><span class="p">>[</span><span class="s1">'PROD_QTY'</span><span class="p">>]</span><span class="o">>.</span><span class="n">grou
7951 </span>
7952 <span class="nb">>print</span><span class="p">>(</span><span class="n">avg_qty_by_customer</span><span class="p">>)</span>
7953 </pre></div>
7954 </div>
7955 </div>
7956 <div class="jp-Cell-outputWrapper">
7957 <div class="jp-Collapser jp-OutputCollapser jp-Cell-outputCollapser">
7958 </div>
7959 <div class="jp-OutputArea jp-Cell-outputArea">
7960 <div class="jp-OutputArea-child">
7961 <div class="jp-OutputPrompt jp-OutputArea-prompt"></div>
7962 <div class="jp-RenderedText jp-OutputArea-output" data-mime-type="text/plain" tabindex="0">
7963 <pre>PREMIUM_CUSTOMER
7964 Budget      1.909658
7965 Mainstream   1.901841
7966 Premium     1.912169
7967 Name: PROD_QTY, dtype: float64
7968 </pre>
7969 </div>
7970 </div>
7971 </div>
7972 </div>
7973 </div><div class="jp-Cell jp-CodeCell jp-Notebook-cell" id="cell-id=f1600c2c">
7974 <div class="jp-Cell-inputWrapper" tabindex="0">
7975 <div class="jp-Collapser jp-InputCollapser jp-Cell-inputCollapser">
7976 </div>
7977 <div class="jp-InputArea jp-Cell-inputArea">
7978 <div class="jp-InputPrompt jp-InputArea-prompt">In [71]:</div>
7979 <div class="jp-CodeMirrorEditor jp-Editor jp-InputArea-editor" data-type="inline">
7980 <div class="cm-editor cm-s-jupyter">
7981 <div class="highlight hl-ipython3"><pre><span></span><span class="c1"># Top Five by Q</span>
7982 <span class="n">top_products</span> <span class="o">>=</span> <span class="n">merged_df</span><span class="o">>.</span><span class="n">groupby</span>
7983 <span class="s1">'PROD_NAME'</span><span class="p">>[</span><span class="s1">'PROD_QTY'</span><span class="p">>]</span><span class="o">>.</span><span class="n">sort_values</span><span class="p">>(</span><span class="n">ascending</span><span class="o">>=</span><span class="n">head</span><span class="p">>(</span><span class="mi">5</span><span class="p">>)</span>
7984 <span class="nb">>print</span><span class="p">>(</span><span class="n">top_products</span><span class="p">>)</span>
7985 </pre></div>
7986 </div>
7987 </div>
7988 </div>
7989 <div class="jp-Cell-outputWrapper">
7990 <div class="jp-Collapser jp-OutputCollapser jp-Cell-outputCollapser">
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7993 <div class="jp-OutputArea-child">
7994 <div class="jp-OutputPrompt jp-OutputArea-prompt"></div>
7995 <div class="jp-RenderedText jp-OutputArea-output" data-mime-type="text/plain" tabindex="0">
7996 <pre>PROD_NAME
7997 Dorito Corn Chp Supreme 380g      6509
7998 Kettle Mozzarella Basil & Pesto 175g      6381
7999 Kettle Tortilla ChpsHny&Jlpno Chili 150g    6309
8000 Cobs Popd Sea Salt Chips 110g      6277
8001 Cobs Popd Swt/Chlli &Sr/Cream Chips 110g    6256
8002 Name: PROD_QTY, dtype: int64
8003 </pre>
8004 </div>
8005 </div>
8006 </div>
8007 </div>
8008 </div><div class="jp-Cell jp-CodeCell jp-Notebook-cell" id="cell-id=321f8928">
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8013 <div class="jp-InputPrompt jp-InputArea-prompt">In [72]:</div>
8014 <div class="jp-CodeMirrorEditor jp-Editor jp-InputArea-editor" data-type="inline">
8015 <div class="cm-editor cm-s-jupyter">
8016 <div class="highlight hl-ipython3"><pre><span></span><span class="c1"># Top 5 by Sales</span>
```

```

8017
8018 <span class="n">top_sales_products</span> <span class="o">=</span> <span class="n">merged_df</span><span class="o">.</span><span class="n">groupby</span><span class="s1">'PROD_NAME'</span><span class="p">[</span><span class="s1">'TOT_SALES'</span><span class="p">]</span><span class="o">.</span><span class="n">sort_values</span><span class="p">(</span><span class="n">ascending</span><span class="o">=</span><span class="n">head</span><span class="p">(</span><span class="mi">5</span><span class="p">)</span>
8019 <span class="nb">print</span><span class="p">(</span><span class="n">top_sales_products</span><span class="p">)</span>
8020 </pre></div>
8021 </div>
8022 </div>
8023 </div>
8024 </div>
8025 <div class="jp-Cell-outputWrapper">
8026 <div class="jp-Collapser jp-OutputCollapser jp-Cell-outputCollapser">
8027 </div>
8028 <div class="jp-OutputArea jp-Cell-outputArea">
8029 <div class="jp-OutputArea-child">
8030 <div class="jp-OutputPrompt jp-OutputArea-prompt"></div>
8031 <div class="jp-RenderedText jp-OutputArea-output" data-mime-type="text/plain" tabindex="0">
8032 <pre>PROD_NAME
8033 Dorito Corn Chp Supreme 380g      40352.0
8034 Smiths Crinkle Chip Orgnl Big Bag 380g    36367.6
8035 Smiths Crinkle Chips Salt & Vinegar 330g   34804.2
8036 Kettle Mozzarella Basil & Pesto 175g     34457.4
8037 Smiths Crinkle Original 330g       34302.6
8038 Name: TOT_SALES, dtype: float64
8039 </pre>
8040 </div>
8041 </div>
8042 </div>
8043 </div>
8044 </div><div class="jp-Cell jp-CodeCell jp-Notebook-cell" id="cell-id=fa5a164f">
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8048 <div class="jp-InputArea jp-Cell-inputArea">
8049 <div class="jp-InputPrompt jp-InputArea-prompt">In [88]:</div>
8050 <div class="jp-CodeMirrorEditor jp-Editor jp-InputArea-editor" data-type="inline">
8051 <div class="cm-editor cm-s-jupyter">
8052 <div class="highlight hl-ipython3"><pre><span></span><span class="o">price_per_chip</span> <span class="n">merged_df</span>
8053 <span class="n">groupby</span><span class="p">(</span><span class="s1">'PROD_NAME'</span><span class="p">)</span><span class="o">.</span><span class="s1">'PROD_QTY'</span><span class="p">:</span> <span class="s1">'TOT_SALES'</span><span class="p">:</span> <span class="s1">'AVG_PRICE_PER_BAG'</span>
8054 <span class="p">}</span>
8055 <span class="p">}</span>
8056 <span class="n">price_per_chip</span><span class="p">[</span><span class="s1">'AVG_PRICE_PER_BAG'</span><span class="p">]</span> <span class="o">.</span>
8057 <span class="p">[</span><span class="s1">'TOT_SALES'</span><span class="p">]</span> <span class="o">.</span> <span class="n">price_per_chip</span>
8058 <span class="n">groupby</span><span class="p">(</span><span class="s1">'TOT_SALES'</span><span class="p">)</span> <span class="o">.</span><span class="n">sort_values</span><span class="p">(</span><span class="s1">'AVG_PRICE_PER_BAG'</span><span class="p">),</span> <span class="n">ascending</span><span class="o">=</span><span class="n">head</span><span class="p">(</span><span class="mi">5</span><span class="p">)</span>
8059 <span class="n">print</span><span class="p">(</span><span class="n">top_sales_products</span><span class="p">)</span>
8060 </pre></div>
8061 </div>
8062 </div>
8063 </div>
8064 </div>
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8076     vertical-align: middle;
8077   }
8078
8079   .dataframe tbody tr th {
8080     vertical-align: top;
8081   }
8082
8083   .dataframe thead th {
8084     text-align: right;
8085   }

```

```
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8091 <th>PROD_QTY</th>
8092 <th>TOT_SALES</th>
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8094 </tr>
8095 <tr>
8096 <th>PROD_NAME</th>
8097 <th></th>
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8100 </tr>
8101 </thead>
8102 <tbody>
8103 <tr>
8104 <th>Dorito Corn Chp Supreme 380g</th>
8105 <td>6509</td>
8106 <td>40352.0</td>
8107 <td>6.199416</td>
8108 </tr>
8109 <tr>
8110 <th>Smiths Crinkle Chip Orgnl Big Bag 380g</th>
8111 <td>6164</td>
8112 <td>36367.6</td>
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8116 <th>Smiths Crinkle Chips Salt & Vinegar 330g</th>
8117 <td>6106</td>
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8123 <td>6018</td>
8124 <td>34302.6</td>
8125 <td>5.700000</td>
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8129 <td>5858</td>
8130 <td>33390.6</td>
8131 <td>5.700000</td>
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8143 </div>
8144 <div class="jp-InputArea jp-Cell-inputArea">
8145 <div class="jp-InputPrompt jp-InputArea-prompt">In [92]:</div>
8146 <div class="jp-CodeMirrorEditor jp-Editor jp-InputArea-editor" data-type="inline">
8147 <div class="cm-editor cm-s-jupyter">
8148 <div class="highlight hl-ipython3"><pre><span><span class="n">top_avg_price</span> <span class="o">=</span> <span class="n">price_per_chi</span> <span class="s1">'AVG_PRICE_PER_BAG'</span><span class="p">]</span><span class="o">.</span><span class="n">head</span><span class="p">(</span><span class="n">plt</span><span class="o">.</span><span class="n">figure</span><span class="p">(</span><span class="n">figsize</span><span class="p">(</span><span class="n">mi</span> <span class="o">*</span> <span class="n">10</span>)</span><span class="p">,</span><span class="n">mi</span> <span class="o">*</span> <span class="n">6</span>)</span><span class="p">)</span><span class="n">sns</span><span class="o">.</span><span class="n">barplot</span><span class="p">(</span><span class="n">values</span><span class="p">,</span><span class="n">color</span><span class="o">=</span><span class="s1">'skyblue'</span><span class="p">)</span><span class="n">index</span><span class="p">,</span><span class="n">plt</span><span class="o">.</span><span class="n">title</span><span class="p">(</span><span class="s1">'Top 10 Chips by Avg Price'</span><span class="p">)</span><span class="n">xlabel</span><span class="p">(</span><span class="s1">'Avg Price ($)'</span><span class="p">)</span><span class="n">plt</span><span class="o">.</span><span class="n">ylabel</span><span class="p">(</span><span class="s1">'Chip Product'</span><span class="p">)</span><span class="n">plt</span><span class="o">.</span><span class="n">tight_layout</span><span class="p">(</span><span class="s1">()
```

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IkSVJGLALSZIKSSoBA7YksZIKSSVgJKsZIKqQM2JIKsZIKlYABW5IKsZKEjBg51kabLx9NPH6FDh5ZMyqpr9b5HYSZIqx5AhQ8Itt9wSA/Ycc8wRevfuHxBYYcv5ZRT1nvTJKr
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8170 </div>
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8172 </div>
8173 </div>
8174 </div><div class="jp-Cell jp-CodeCell jp-Notebook-cell" id="cell-id=d0f74df6">
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8177 </div>
8178 <div class="jp-InputArea jp-Cell-inputArea">
8179 <div class="jp-InputPrompt jp-InputArea-prompt">In [73]:</div>
8180 <div class="jp-CodeMirrorEditor jp-Editor jp-InputArea-editor" data-type="inline">
8181 <div class="cm-editor cm-s-jupyter">
8182 <div class="highlight hl-ipython3"><pre><span></span><span class="c1"># Bottom 5 by Sales</span>
8183
8184 <span class="n">bottom_sales_products</span> <span class="o">=</span> <span class="n">merged_df</span><span class="o">.</span><span class="n">groupby</span><span class="s1">'PROD_NAME'</span><span class="p">[</span><span class="s1">'TOT_SALES'</span><span class="p">]</span><span class="o">.</span><span class="o">.</span><span class="n">sort_values</span><span class="p">(</span><span class="n">ascending</span><span class="o">.</span><span class="o">.</span><span class="n">head</span><span class="p">(</span><span class="mi">5</span><span class="p">)</span><span class="nb">print</span><span class="p">(</span><span class="n">bottom_sales_products</span><span class="p">)</span>
8185 </pre></div>
8186 </div>
8187 </div>
8188 </div>
8189 </div>
8190 </div>
8191 <div class="jp-Cell-outputWrapper">
8192 <div class="jp-Collapser jp-OutputCollapser jp-Cell-outputCollapser">
8193 </div>
8194 <div class="jp-OutputArea jp-Cell-outputArea">
8195 <div class="jp-OutputArea-child">
8196 <div class="jp-OutputPrompt jp-OutputArea-prompt"></div>
8197 <div class="jp-RenderedText jp-OutputArea-output" data-mime-type="text/plain" tabindex="0">
8198 <pre>PROD_NAME
8199 Woolworths Medium Salsa 300g 4050.0
8200 Woolworths Mild Salsa 300g 4234.5
8201 WW Crinkle Cut Original 175g 4532.2
8202 Sunbites Whlegran Crisps Frch/Onin 90g 4600.2
8203 WW Crinkle Cut Chicken 175g 4702.2
8204 Name: TOT_SALES, dtype: float64
8205 </pre>
8206 </div>
8207 </div>
8208 </div>
8209 </div>
8210 </div><div class="jp-Cell jp-CodeCell jp-Notebook-cell" id="cell-id=5873203e">
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8213 </div>
8214 <div class="jp-InputArea jp-Cell-inputArea">
8215 <div class="jp-InputPrompt jp-InputArea-prompt">In [74]:</div>
8216 <div class="jp-CodeMirrorEditor jp-Editor jp-InputArea-editor" data-type="inline">
8217 <div class="cm-editor cm-s-jupyter">

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8218 <div class="highlight hl-ipython3"><pre><span></span><span class="c1">#Sales by Month</span>
8219 <span class="n">merged_df</span><span class="p">[</span><span class="s1">'YEAR_MONTH'</span><span class="p">]</span> <span class="o">></span> <span class="n">groupby</span>
8220 <span class="s1">'YEAR_MONTH'</span><span class="p">)[</span><span class="s1">'TOT_SALES'</span><span class="p">]</span><span class="o">></span><span class="n">print</span><span class="p">(</span><span class="n">sales_over_time</span><span class="p">)</span>
8221 </pre></div>
8222 </div>
8223 </div>
8224 </div>
8225 </div>
8226 </div>
8227 <div class="jp-Cell-outputWrapper">
8228 <div class="jp-Collapser jp-OutputCollapser jp-Cell-outputCollapser">
8229 </div>
8230 <div class="jp-OutputArea jp-Cell-outputArea">
8231 <div class="jp-OutputArea-child">
8232 <div class="jp-OutputPrompt jp-OutputArea-prompt"></div>
8233 <div class="jp-RenderedText jp-OutputArea-output" data-mime-type="text/plain" tabindex="0">
8234 <pre>YEAR_MONTH
8235 2018-07 165275.30
8236 2018-08 158731.05
8237 2018-09 160522.00
8238 2018-10 164415.70
8239 2018-11 160233.70
8240 2018-12 167913.40
8241 2019-01 162642.30
8242 2019-02 150665.00
8243 2019-03 166265.20
8244 2019-04 159845.10
8245 2019-05 157367.65
8246 2019-06 160538.60
8247 Freq: M, Name: TOT_SALES, dtype: float64
8248 </pre>
8249 </div>
8250 </div>
8251 </div>
8252 </div>
8253 </div><div class="jp-Cell jp-CodeCell jp-Notebook-cell" id="cell-id=bbb448f3">
8254 <div class="jp-Cell-inputWrapper" tabindex="0">
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8256 </div>
8257 <div class="jp-InputArea jp-Cell-inputArea">
8258 <div class="jp-InputPrompt jp-InputArea-prompt">In [75]:</div>
8259 <div class="jp-CodeMirrorEditor jp-Editor jp-InputArea-editor" data-type="inline">
8260 <div class="cm-editor cm-s-jupyter">
8261 <div class="highlight hl-ipython3"><pre><span></span><span class="n">avg_per_customer</span> <span class="o">>=</span> <span class="n">merged_df</span><span class="p">(</span><span class="s1">'LIFESTAGE'</span><span class="p">)</span><span class="o">></span><span class="n">groupby</span><span class="s1">'LYLTY_CARD_NBR'</span><span class="p">:</span> <span class="n">pd</span><span class="o">></span><span class="n">Series</span><span class="p">(</span><span class="n">nunique</span><span class="p">),</span>
8262 <span class="s1">'TOT_SALES'</span><span class="p">:</span> <span class="s1">'sum'</span>
8263 <span class="p">}></span>
8264 <span class="n">avg_per_customer</span><span class="p">[</span><span class="s1">'AVG_SPEND_PER_CUSTOMER'</span><span class="p">]</span> <span class="n">df</span><span class="p">(</span><span class="n">avg_per_customer</span><span class="p">)[</span><span class="s1">'TOT_SALES'</span><span class="p">]</span> <span class="o">></span> <span class="n">df</span><span class="p">(</span><span class="s1">'LYLTY_CARD_NBR'</span><span class="p">)</span>
8265 <span class="n">avg_per_customer</span> <span class="o">>=</span> <span class="n">avg_per_customer</span><span class="o">></span><span class="n">df</span><span class="p">(</span><span class="s1">'AVG_SPEND_PER_CUSTOMER'</span><span class="p">),</span> <span class="n">df</span><span class="p">(</span><span class="n">ascending</span><span class="o">></span><span class="kc">False</span>
8266 <span class="n">avg_per_customer</span>
8267 </pre></div>
8268 </div>
8269 </div>
8270 </div>
8271 </div>
8272 </div>
8273 <div class="jp-Cell-outputWrapper">
8274 <div class="jp-Collapser jp-OutputCollapser jp-Cell-outputCollapser">
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8276 <div class="jp-OutputArea jp-Cell-outputArea">
8277 <div class="jp-OutputArea-child jp-OutputArea-executeResult">
8278 <div class="jp-OutputPrompt jp-OutputArea-prompt">Out[75]:</div>
8279 <div class="jp-RenderedHTMLCommon jp-RenderedHTML jp-OutputArea-output jp-OutputArea-executeResult" data-mime-type="text/html" tabindex="0">
8280 <div>
8281 <style scoped="">
8282   .dataframe tbody tr th:only-of-type {
8283     vertical-align: middle;
8284   }
8285 </pre>
```

```
8286     .dataframe tbody tr th {  
8287         vertical-align: top;  
8288     }  
8289  
8290     .dataframe thead th {  
8291         text-align: right;  
8292     }  
8293 </style>  
8294 <table border="1" class="dataframe">  
8295 <thead>  
8296 <tr style="text-align: right;">  
8297 <th></th>  
8298 <th>LYLTY_CARD_NBR</th>  
8299 <th>TOT_SALES</th>  
8300 <th>AVG_SPEND_PER_CUSTOMER</th>  
8301 </tr>  
8302 <tr>  
8303 <th>LIFESTAGE</th>  
8304 <th></th>  
8305 <th></th>  
8306 <th></th>  
8307 </tr>  
8308 </thead>  
8309 <tbody>  
8310 <tr>  
8311 <th>OLDER FAMILIES</th>  
8312 <td>9780</td>  
8313 <td>353767.20</td>  
8314 <td>36.172515</td>  
8315 </tr>  
8316 <tr>  
8317 <th>YOUNG FAMILIES</th>  
8318 <td>9178</td>  
8319 <td>316160.10</td>  
8320 <td>34.447603</td>  
8321 </tr>  
8322 <tr>  
8323 <th>OLDER SINGLES/COUPLES</th>  
8324 <td>14609</td>  
8325 <td>402426.75</td>  
8326 <td>27.546495</td>  
8327 </tr>  
8328 <tr>  
8329 <th>MIDAGE SINGLES/COUPLES</th>  
8330 <td>7275</td>  
8331 <td>184751.30</td>  
8332 <td>25.395368</td>  
8333 </tr>  
8334 <tr>  
8335 <th>RETIREEs</th>  
8336 <td>14805</td>  
8337 <td>366470.90</td>  
8338 <td>24.753185</td>  
8339 </tr>  
8340 <tr>  
8341 <th>NEW FAMILIES</th>  
8342 <td>2549</td>  
8343 <td>50433.45</td>  
8344 <td>19.785583</td>  
8345 </tr>  
8346 <tr>  
8347 <th>YOUNG SINGLES/COUPLES</th>  
8348 <td>14441</td>  
8349 <td>260405.30</td>  
8350 <td>18.032359</td>  
8351 </tr>  
8352 </tbody>  
8353 </table>  
8354 </div>  
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8361 <div class="jp-Collapser jp-InputCollapser jp-Cell-inputCollapser">
```

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8362 </div>
8363 <div class="jp-InputArea jp-Cell-inputArea">
8364 <div class="jp-InputPrompt jp-InputArea-prompt">In [96]:</div>
8365 <div class="jp-CodeMirrorEditor jp-Editor jp-InputArea-editor" data-type="inline">
8366 <div class="cm-editor cm-s-jupyter">
8367 <div class="highlight hl-ipython3"><pre><span></span><span class="n">store_product_sales</span> <span class="o">=</span> <span class="n">merged_u</span>
8368 <span class="n">groupby</span><span class="p">([</span><span class="s1">'STORE_NBR'</span><span class="p">,</span> <span class="s1">'PROD_NAME'</span>
8369 <span class="s1">'TOT_SALES'</span><span class="p">])</span><span class="o">.</span><span class="n">sum</span><span class="p">()</span><span class="o">=
8370 <span class="n">top_store_products</span> <span class="o">=</span> <span class="n">store_product_sales</span><span class="o">.</span><span class="n">ascendi</span>
8371 <span class="s1">'STORE_NBR'</span><span class="p">,</span> <span class="s1">'TOT_SALES'</span><span class="p">],</span> <span class="n">head</span>
8372 <span class="nb">print</span><span class="p">(</span><span class="n">top_store_products</span><span class="o">.</span><span class="n">head</span>
8373 </pre></div>
8374 </div>
8375 </div>
8376 <div class="jp-Cell-outputWrapper">
8377 <div class="jp-Collapser jp-OutputCollapser jp-Cell-outputCollapser">
8378 </div>
8379 <div class="jp-OutputArea jp-Cell-outputArea">
8380 <div class="jp-OutputArea-child">
8381 <div class="jp-OutputPrompt jp-OutputArea-prompt"></div>
8382 <div class="jp-RenderedText jp-OutputArea-output" data-mime-type="text/plain" tabindex="0">
8383 <pre> STORE_NBR PROD_NAME TOT_SALES
8384 6 1 Cheezels Cheese 330g 57.0
8385 48 1 Old El Paso Salsa Dip Chnky Tom Ht300g 51.0
8386 15 1 Doritos Corn Chips Cheese Supreme 170g 48.4
8387 97 1 Tostitos Smoked Chipotle 175g 48.4
8388 86 1 Smiths Crnkle Chip Orgnl Big Bag 380g 47.2
8389 56 1 Pringles SourCream Onion 134g 44.4
8390 74 1 Smiths Chip Thinly CutSalt/Vinegr175g 42.0
8391 36 1 Kettle Sensations BBQ&Maple 150g 41.4
8392 98 1 Tostitos Splash Of Lime 175g 39.6
8393 35 1 Kettle Sea Salt And Vinegar 175g 37.8
8394 </pre>
8395 </div>
8396 </div>
8397 </div>
8398 </div>
8399 </div><div class="jp-Cell jp-CodeCell jp-Notebook-cell" id="cell-id=0f31923e">
8400 <div class="jp-Cell-inputWrapper" tabindex="0">
8401 <div class="jp-Collapser jp-InputCollapser jp-Cell-inputCollapser">
8402 </div>
8403 <div class="jp-InputArea jp-Cell-inputArea">
8404 <div class="jp-InputPrompt jp-InputArea-prompt">In [94]:</div>
8405 <div class="jp-CodeMirrorEditor jp-Editor jp-InputArea-editor" data-type="inline">
8406 <div class="cm-editor cm-s-jupyter">
8407 <div class="highlight hl-ipython3"><pre><span></span><span class="n">plt</span><span class="o">.</span><span class="n">figure</span><span class="o">=</span><span class="p">(</span><span class="mi">10</span><span class="p">,</span><span class="mi">6</span><span class="p">)</span></pre>
8408 <span class="n">sns</span><span class="o">.</span><span class="n">scatterplot</span><span class="p">(</span><span class="n">data</span><span class="o">=</span><span class="s1">'PROD_QTY'</span><span class="o">.</span><span class="s1">'TOT_SALES'</span><span class="p">)</span>
8409 <span class="n">plt</span><span class="o">.</span><span class="n">title</span><span class="p">(</span><span class="s1">'Product Quantity vs. Tot</span>
8410 <span class="n">plt</span><span class="o">.</span><span class="n">xlabel</span><span class="p">(</span><span class="s1">'Total Quantity Sold'</span>
8411 <span class="n">plt</span><span class="o">.</span><span class="n">ylabel</span><span class="p">(</span><span class="s1">'Total Sales ($)'</span>
8412 <span class="n">plt</span><span class="o">.</span><span class="n">tight_layout</span><span class="p">()</span>
8413 <span class="n">plt</span><span class="o">.</span><span class="n">show</span><span class="p">()</span>
8414 </pre></div>
8415 </div>
8416 </div>
8417 </div>
8418 </div>
8419 <div class="jp-Cell-outputWrapper">
8420 <div class="jp-Collapser jp-OutputCollapser jp-Cell-outputCollapser">
8421 </div>
8422 <div class="jp-OutputArea jp-Cell-outputArea">
8423 <div class="jp-OutputArea-child">
8424 <div class="jp-OutputPrompt jp-OutputArea-prompt"></div>
8425 <div class="jp-RenderedImage jp-OutputArea-output" tabindex="0">
8426 

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8440 <span class="k">as</span><span class="w"> </span><span class="nn">seaborn</span><span class="w"> </span><span class="k">as</span><span clas:
8441 <span class="n">sales_by_group</span> <span class="o">=</span> <span class="n">merged_df</span><span class="o">.</span><span class="n">groupby</span>
8442 <span class="s1">'LIFESTAGE'</span><span class="o">,</span> <span class="s1">'PREMIUM_CUSTOMER'</span><span class="o">]</span><span class="s1">'TOT_!
8443 <span class="o">.</span><span class="n">sum</span><span class="o">(</span><span class="o">.</span><span class="n">reset_index</span><span class="o">(
8444 <span class="n">plt</span><span class="o">.</span><span class="n">figure</span><span class="o">(</span><span class="n">figsize</span><span class="o">(
8445 <span class="mi">14</span><span class="o">,</span> <span class="mi">7</span><span class="o">)</span><span class="o">)</span><span class="o">)
8446 <span class="n">sns</span><span class="o">.</span><span class="n">barplot</span><span class="o">(</span><span class="n">data</span><span class="o">(
8447 <span class="p">,</span> <span class="n">x</span><span class="o">.</span><span class="s1">'LIFESTAGE'</span><span class="p">,</span> <span class:
8448 <span class="s1">'TOT_SALES'</span><span class="p">,</span> <span class="n">hue</span><span class="o">.</span><span class="s1">'PREMIUM_CUSTOMER'</span>
8449 <span class="n">plt</span><span class="o">.</span><span class="n">title</span><span class="o">.</span><span class="s1">'Total Sales by Customer
8450 <span class="n">plt</span><span class="o">.</span><span class="n">xticks</span><span class="o">.</span><span class="n">rotation</span><span clas:
8451 <span class="o">)</span>
8452 <span class="n">plt</span><span class="o">.</span><span class="n">ylabel</span><span class="o">.</span><span class="s1">'Total Sales ($)'</span>
8453 <span class="n">plt</span><span class="o">.</span><span class="n">tight_layout</span><span class="o">().</span>
8454 <span class="n">plt</span><span class="o">.</span><span class="n">show</span><span class="o">().</span>
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8472 <div class="jp-InputArea jp-Cell-inputArea">
8473 <div class="jp-InputPrompt jp-InputArea-prompt">In [77]:</div>
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8475 <div class="cm-editor cm-s-jupyter">
8476 <div class="highlight hl-ipython3"><pre><span><span class="n">plt</span><span class="o">.</span><span class="n">figure</span><span class="o">(</span><span class="n">class="o">=</span><span class="p">)</span><span class="n">mi</span>>10</span><span class="p">,</span><span class="n">mi</span>>6</span><span class="p">)</span><span class="n">p</span></pre></div>
8477 <span class="n">sns</span><span class="o">(</span><span class="n">o</span></span><span class="o">)</span><span class="n">barplot</span><span class="o">(</span><span class="n">p</span></span></span>
8478 <span class="n"><x></span><span class="o">(</span><span class="n">sales_by_lifestage</span></span><span class="o">)</span><span class="n">o</span></span><span class="o">)</span><span class="n">values</span>

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8545 <div class="jp-InputArea jp-Cell-inputArea">

8546 <div class="jp-InputPrompt jp-InputArea-prompt">In [79]:</div>

8547 <div class="jp-CodeMirrorEditor jp-Editor jp-InputArea-editor" data-type="inline">

8548 <div class="cm-editor cm-s-jupyter">

8549 <div class="highlight hl-ipython3"><pre><span></span><span class="n">top\_sales\_products</span> <span class="o">=</span> <span class="n">merged\_d</span><span class="n">groupby</span><span class="p"(></span><span class="s1">PROD\_NAME</span><span class="p"[]>[</span><span class="s1">'TOT\_SALES'</span><span class="n">sum</span><span class="p"(></span><span class="o">.</span><span class="n">sort\_values</span><span class="p"(></span><span class="kc">False</span><span class="p"(></span><span class="o">.</span><span class="n">head</span><span class="p"(></span><span class="mi">10</span><span class="o">plt</span><span class="n">figure</span><span class="p"(></span><span class="n">figsize</span><span class="mi">10</span><span class="o">,</span><span class="n">barplot</span><span class="p"(></span><span class="n">sns</span><span class="o">.</span><span class="n">barplot</span><span class="p"(></span><span class="n">values</span><span class="o">.</span><span class="n">hue</span><span class="o">.</span><span class="n">top\_sales\_products</span><span class="o">.</span><span class="n">index</span><span class="n">dodge</span><span class="o">.</span><span class="kc">False</span><span class="p"(></span><span class="n">palette</span><span class="o">.</span><span class="s1">'viridis'</span><span class="p"(></span><span class="n">legend</span><span class="o">.</span><span class="kc">False</span><span class="p"(></span><span class="n">plt</span><span class="o">.</span><span class="n">title</span><span class="p"(></span><span class="s1">'Top 10 Most Popular Products'</span><span class="p"(></span><span class="n">xlabel</span><span class="p"(></span><span class="s1">'Total Sales (\$)'</span><span class="p"(></span><span class="n">ylabel</span><span class="p"(></span><span class="s1">'Product'</span><span class="p"(></span><span class="n">tight\_layout</span><span class="p"(></span><span class="n">show</span><span class="p"(></span>

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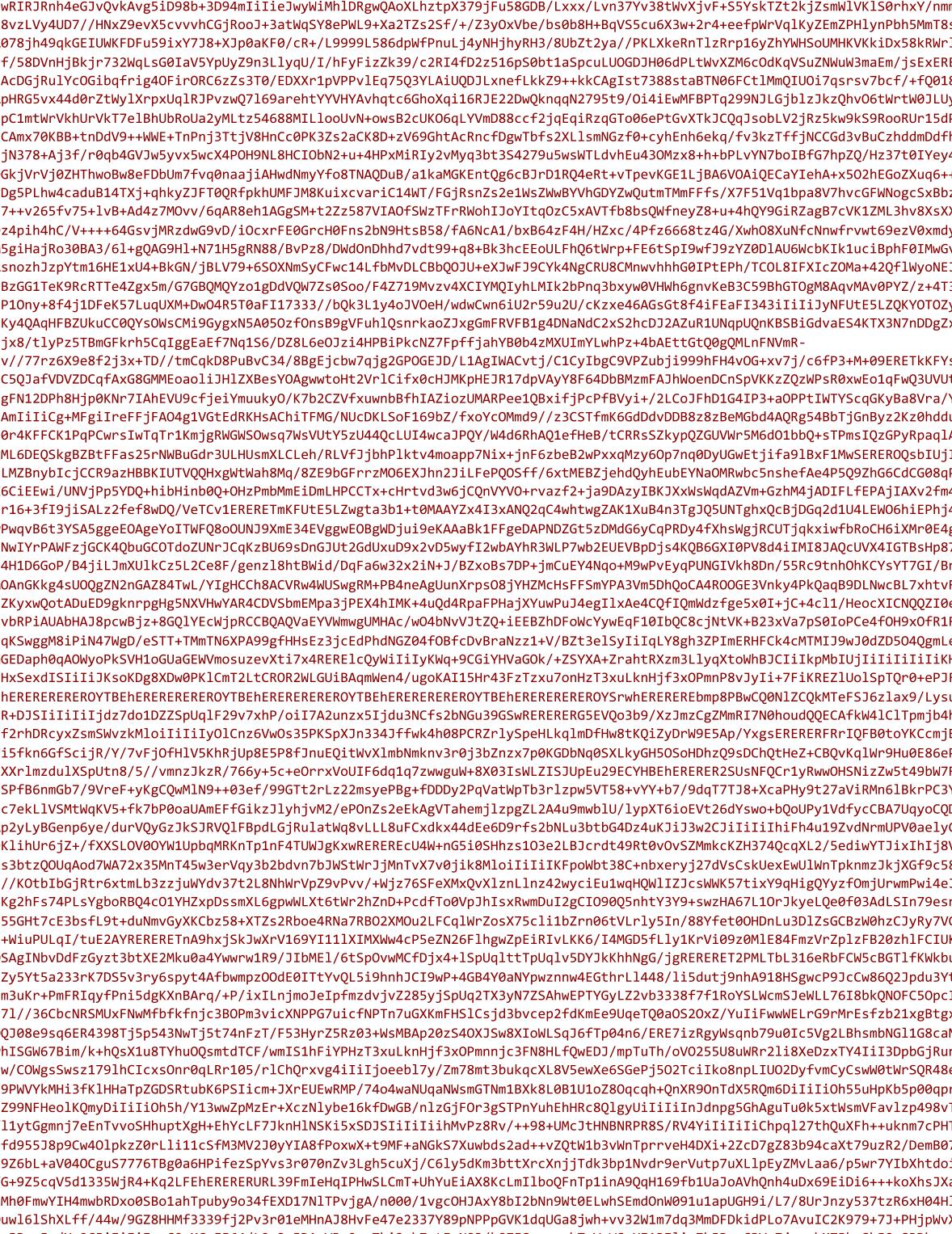
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8661 <div class="jp-InputPrompt jp-InputArea-prompt">In [82]:</div>
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8663 <div class="cm-editor cm-s-jupyter">
8664 <div class="highlight hl-ipython3"><pre><span></span><span class="n">demo_df</span> <span class="o">=</span> <span class="n">merged_df</span><span class="n">groupby</span><span class="p">(</span><span class="s1">'LIFESTAGE'</span><span class="p">)</span><span class="o">.</span><span class="s1">'LYLTY_CARD_NBR'</span><span class="p">:</span><span class="n">pd</span><span class="o">.</span><span class="n">Series</span><span class="n">unique</span><span class="p">,</span><span class="s1">'TOT_SALES'</span><span class="p">:</span><span class="s1">'sum'</span><span class="p">}</span><span class="o">.</span><span class="n">reset_index</span><span class="p">()</span>
8666 <span class="n">demo_df</span><span class="p">[</span><span class="s1">'AVG_SPEND_PER_CUSTOMER'</span><span class="p">]</span><span class="o">=</span><span class="p">[</span><span class="s1">'TOT_SALES'</span><span class="p">]</span><span class="o">.</span><span class="n">demo_df</span><span class="s1">'LYLTY_CARD_NBR'</span><span class="p">]</span>
8667 <span class="n">plt</span><span class="o">.</span><span class="n">figure</span><span class="p">(</span><span class="n">figsize</span><span class="p">(</span><span class="n">mi>12</span><span class="p">,</span><span class="n">mi>6</span><span class="p">))</span>
8668 <span class="n">sns</span><span class="o">.</span><span class="n">scatterplot</span><span class="p">(</span><span class="n">data</span><span class="p">(</span><span class="n">p>,</span><span class="n">n>)</span><span class="p">)</span><span class="n">hue</span><span class="o">=</span><span class="p">(</span><span class="n">s1>)</span><span class="p">)</span><span class="n">hue</span><span class="o">=</span><span class="p">(</span><span class="n">s1>)</span><span class="p">)</span><span class="n">sizes</span><span class="o">.</span><span class="n">sizes</span><span class="p">)</span>
8669 <span class="n">plt</span><span class="o">.</span><span class="n">title</span><span class="p">(</span><span class="n">s1>)</span><span class="p">Total Spend vs. Customer</span>
8670 <span class="n">plt</span><span class="o">.</span><span class="n">xlabel</span><span class="p">(</span><span class="n">s1>)</span><span class="p">'Customer Count'</span><span class="p">(</span><span class="n">s1>)</span><span class="p">'Total Sales ($)'</span>
8671 <span class="n">plt</span><span class="o">.</span><span class="n">ylabel</span><span class="p">(</span><span class="n">s1>)</span><span class="p">'Total Sales ($)'</span><span class="p">(</span><span class="n">s1>)</span><span class="p">'LIFESTAGE'</span><span class="p">(</span><span class="n">s1>)</span><span class="p">'AVG_SPEND_PER_CUSTOMER'</span><span class="p">)</span><span class="n">sizes</span><span class="o">.</span><span class="n">sizes</span><span class="p">)</span>
8672 <span class="n">plt</span><span class="o">.</span><span class="n">legend</span><span class="p">(</span><span class="n">n>bbox_to_anchor</span><span class="p">(</span><span class="n">mf>1.05</span><span class="p">,</span><span class="n">mi>1</span><span class="p">)</span><span class="n">loc</span><span class="p">(</span><span class="n">o>)</span><span class="p">)</span>
8673 <span class="n">plt</span><span class="o">.</span><span class="n">tight_layout</span><span class="p">()</span>
8674 <span class="n">plt</span><span class="o">.</span><span class="n">show</span><span class="p">()</span>
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A large, illegible image block representing a rendered image from a Jupyter Notebook cell. It contains several lines of code and output, likely related to data visualization or complex calculations, but the text is too small and distorted to be readable.





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8704 <div class="highlight hl-ipython3"><pre><span></span><span class="n">sales_by_segment</span> <span class="o">=</span> <span class="n">merged_df<, class="n">groupby</span><span class="p">(</span><span class="s1">'PREMIUM_CUSTOMER'</span><span class="p">)[]</span><span class="s1">'TOT_SALES'<, </span><span class="n">sum</span><span class="p">()</span><span class="o">.</span><span class="n">sort_values</span><span class="p">(</span><span class="kc">False</span><span class="p">)</span>
8705 <span class="n">plt</span><span class="o">.</span><span class="n">figure</span><span class="p">(</span><span class="n">figsize</span><span class="class: mi">8</span><span class="p">,</span><span class="mi">5</span><span class="p">))</span>
8706 <span class="n">sns</span><span class="o">.</span><span class="n">barplot</span><span class="p">(</span><span class="n">x</span><span class="o">=</span><span class="n">sales_by_segment</span><span class="p">,</span><span class="n">values</span><span class="p">,</span><span class="n">hue</span><span class="o">=</span><span class="n">sales_by_segment</span><span class="p">,</span><span class="n">palette</span><span class="o">=</span><span class="s1">'coolwarm'</span><span class="p">,</span><span class="kc">False</span><span class="p">)</span>
8707 <span class="n">plt</span><span class="o">.</span><span class="n">title</span><span class="p">(</span><span class="s1">'Total Sales by Customer '<span class="n">plt</span><span class="o">.</span><span class="n">ylabel</span><span class="p">(</span><span class="s1">'Total Sales ($)'<span class="n">plt</span><span class="o">.</span><span class="n">xlabel</span><span class="p">(</span><span class="s1">'Customer Type'<span class="n">plt</span><span class="o">.</span><span class="n">tight_layout</span><span class="p">()</span>
8708 <span class="n">plt</span><span class="o">.</span><span class="n">show</span><span class="p">()</span>
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8806 <h2 id="Key-Insights">Key Insights<a class="anchor-link" href="#Key-Insights">J</a></h2><ul>
8807 <li><p>Older Singles/Couples dominate total sales ($402,426.75) and also represent the largest share of units sold (104,203 units). This segment about 20.1% of the demographic, indicating high purchasing frequency or volume per customer.</p>
8808 </li>
8809 <li><p>New Families contribute the lowest sales ($50,433.45) and smallest unit volume (12,847 units), which aligns with their small demographic : ($19.79) is also the lowest, suggesting lower engagement or fewer purchases per customer.</p>
8810 </li>
8811 <li><p>Product-wise, Dorito Corn Chp Supreme 380g leads with $40,352 in sales and 6,509 units sold. The quantity sold is close to Kettle Mozzare signaling strong competition within top-selling SKUs. This suggests that while Doritos edges out as top seller, consumer preferences are diverse
8812 </li>
8813 <li><p>Older Families and Young Families also contribute substantial sales ($353,767 and $316,160 respectively), with average spend per customer indicates strong purchasing power and loyalty in family segments.</p>
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8815 <li><p>Spending trends appear stable across months, with minor fluctuations, showing consistent demand over the period analyzed.</p>
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8839 <li><p>Focus marketing efforts on New Families to increase their engagement and spending. Given their small current share and low average spend, messaging could encourage higher purchase frequency and brand loyalty in this growing demographic segment.</p>
8840 </li>
8841 <li><p>Continue nurturing the Older Singles/Couples segment with personalized offers that recognize their high purchase volume. Loyalty programs grow this already valuable group.</p>
8842 </li>
8843 <li><p>Capitalize on product competition by highlighting unique features or flavors of top SKUs like Dorito Corn Chp Supreme and Kettle Mozzarel could increase brand preference and encourage trial among undecided consumers.</p>
8844 </li>
8845 <li><p>Explore cross-selling complementary products, such as dips or salsa, especially given the presence of salsa-related items in store sales < average transaction value and improve customer experience.</p>
8846 </li>
8847 <li><p>Leverage the consistent monthly sales trend to plan seasonal promotions strategically, ensuring inventory aligns with predictable demand </p>
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