```
<!DOCTYPE html>
<html>
<head><meta charset="utf-8" />

<title>w207_Final_Project_BlackMirror</title>

<script src="https://cdnjs.cloudflare.com/ajax/libs/require.js/2.1.10/require.min.js"></script>
<script src="https://cdnjs.cloudflare.com/ajax/libs/jquery/2.0.3/jquery.min.js"></script>



<style type="text/css">
    /*!
*
* Twitter Bootstrap
*
*/
/*!
 * Bootstrap v3.3.7 (http://getbootstrap.com)
 * Copyright 2011-2016 Twitter, Inc.
 * Licensed under MIT (https://github.com/twbs/bootstrap/blob/master/LICENSE)
 */
/*! normalize.css v3.0.3 | MIT License | github.com/necolas/normalize.css */
html {
  font-family: sans-serif;
  -ms-text-size-adjust: 100%;
  -webkit-text-size-adjust: 100%;
}
body {
  margin: 0;
}
article,
aside,
details,
figcaption,
figure,
footer,
header,
hgroup,
main,
menu,
nav,
section,
summary {
  display: block;
}
audio,
canvas,
progress,
video {
  display: inline-block;
  vertical-align: baseline;
}
audio:not([controls]) {
  display: none;
  height: 0;
}
[hidden],
template {
  display: none;
}
a {
  background-color: transparent;
}
```

```
a:active,
a:hover {
  outline: 0;
}
abbr[title] {
  border-bottom: 1px dotted;
}
b,
strong {
  font-weight: bold;
}
dfn {
  font-style: italic;
}
h1 {
  font-size: 2em;
  margin: 0.67em 0;
}
mark {
  background: #ff0;
  color: #000;
}
small {
  font-size: 80%;
}
sub,
sup {
  font-size: 75%;
  line-height: 0;
  position: relative;
  vertical-align: baseline;
}
sup {
  top: -0.5em;
}
sub {
  bottom: -0.25em;
}
img {
  border: 0;
}
svg:not(:root) {
  overflow: hidden;
}
figure {
  margin: 1em 40px;
}
hr {
  box-sizing: content-box;
  height: 0;
}
pre {
  overflow: auto;
}
code,
kbd,
pre,
samp {
  font-family: monospace, monospace;
  font-size: 1em;
}
button,
input,
optgroup,
select,
```

```
textarea {
  color: inherit;
  font: inherit;
  margin: 0;
}
button {
  overflow: visible;
}
button,
select {
  text-transform: none;
}
button,
html input[type="button"],
input[type="reset"],
input[type="submit"] {
  -webkit-appearance: button;
  cursor: pointer;
}
button[disabled],
html input[disabled] {
  cursor: default;
}
button::-moz-focus-inner,
input::-moz-focus-inner {
  border: 0;
  padding: 0;
}
input {
  line-height: normal;
}
input[type="checkbox"],
input[type="radio"] {
  box-sizing: border-box;
  padding: 0;
}
input[type="number"]::-webkit-inner-spin-button,
input[type="number"]::-webkit-outer-spin-button {
  height: auto;
}
input[type="search"] {
  -webkit-appearance: textfield;
  box-sizing: content-box;
}
input[type="search"]::-webkit-search-cancel-button,
input[type="search"]::-webkit-search-decoration {
  -webkit-appearance: none;
}
fieldset {
  border: 1px solid #c0c0c0;
  margin: 0 2px;
  padding: 0.35em 0.625em 0.75em;
}
legend {
  border: 0;
  padding: 0;
}
textarea {
  overflow: auto;
}
optgroup {
  font-weight: bold;
}
table {
  border-collapse: collapse;
```

```
    border-spacing: 0;
  }
  td,
  th {
    padding: 0;
  }
  /*! Source: https://github.com/h5bp/html5-boilerplate/blob/master/src/css/main.css */
  @media print {
    *,
    *:before,
    *:after {
      background: transparent !important;
      box-shadow: none !important;
      text-shadow: none !important;
    }
    a,
    a:visited {
      text-decoration: underline;
    }
    a[href]:after {
      content: " (" attr(href) ")";
    }
    abbr[title]:after {
      content: " (" attr(title) ")";
    }
    a[href^="#"]:after,
    a[href^="javascript:"]:after {
      content: "";
    }
    pre,
    blockquote {
      border: 1px solid #999;
      page-break-inside: avoid;
    }
    thead {
      display: table-header-group;
    }
    tr,
    img {
      page-break-inside: avoid;
    }
    img {
      max-width: 100% !important;
    }
    p,
    h2,
    h3 {
      orphans: 3;
      widows: 3;
    }
    h2,
    h3 {
      page-break-after: avoid;
    }
    .navbar {
      display: none;
    }
    .btn > .caret,
    .dropup > .btn > .caret {
      border-top-color: #000 !important;
    }
    .label {
      border: 1px solid #000;
    }
    .table {
```

```
    border-collapse: collapse !important;
  }
  .table td,
  .table th {
    background-color: #fff !important;
  }
  .table-bordered th,
  .table-bordered td {
    border: 1px solid #ddd !important;
  }
}
@font-face {
  font-family: 'Glyphicons Halflings';
  src: url('../components/bootstrap/fonts/glyphicons-halflings-regular.eot');
  src: url('../components/bootstrap/fonts/glyphicons-halflings-regular.eot?#iefix') format('embedded-
opentype'), url('../components/bootstrap/fonts/glyphicons-halflings-regular.woff2') format('woff2'),
url('../components/bootstrap/fonts/glyphicons-halflings-regular.woff') format('woff'),
url('../components/bootstrap/fonts/glyphicons-halflings-regular.ttf') format('truetype'),
url('../components/bootstrap/fonts/glyphicons-halflings-regular.svg#glyphicons_halflingsregular')
format('svg');
}
.glyphicon {
  position: relative;
  top: 1px;
  display: inline-block;
  font-family: 'Glyphicons Halflings';
  font-style: normal;
  font-weight: normal;
  line-height: 1;
  -webkit-font-smoothing: antialiased;
  -moz-osx-font-smoothing: grayscale;
}
.glyphicon-asterisk:before {
  content: "\002a";
}
.glyphicon-plus:before {
  content: "\002b";
}
.glyphicon-euro:before,
.glyphicon-eur:before {
  content: "\20ac";
}
.glyphicon-minus:before {
  content: "\2212";
}
.glyphicon-cloud:before {
  content: "\2601";
}
.glyphicon-envelope:before {
  content: "\2709";
}
.glyphicon-pencil:before {
  content: "\270f";
}
.glyphicon-glass:before {
  content: "\e001";
}
.glyphicon-music:before {
  content: "\e002";
}
.glyphicon-search:before {
  content: "\e003";
}
.glyphicon-heart:before {
  content: "\e005";
```

```
}
.glyphicon-star:before {
  content: "\e006";
}
.glyphicon-star-empty:before {
  content: "\e007";
}
.glyphicon-user:before {
  content: "\e008";
}
.glyphicon-film:before {
  content: "\e009";
}
.glyphicon-th-large:before {
  content: "\e010";
}
.glyphicon-th:before {
  content: "\e011";
}
.glyphicon-th-list:before {
  content: "\e012";
}
.glyphicon-ok:before {
  content: "\e013";
}
.glyphicon-remove:before {
  content: "\e014";
}
.glyphicon-zoom-in:before {
  content: "\e015";
}
.glyphicon-zoom-out:before {
  content: "\e016";
}
.glyphicon-off:before {
  content: "\e017";
}
.glyphicon-signal:before {
  content: "\e018";
}
.glyphicon-cog:before {
  content: "\e019";
}
.glyphicon-trash:before {
  content: "\e020";
}
.glyphicon-home:before {
  content: "\e021";
}
.glyphicon-file:before {
  content: "\e022";
}
.glyphicon-time:before {
  content: "\e023";
}
.glyphicon-road:before {
  content: "\e024";
}
.glyphicon-download-alt:before {
  content: "\e025";
}
.glyphicon-download:before {
  content: "\e026";
}
.glyphicon-upload:before {
```

```
    content: "\e027";
  }
  .glyphicon-inbox:before {
    content: "\e028";
  }
  .glyphicon-play-circle:before {
    content: "\e029";
  }
  .glyphicon-repeat:before {
    content: "\e030";
  }
  .glyphicon-refresh:before {
    content: "\e031";
  }
  .glyphicon-list-alt:before {
    content: "\e032";
  }
  .glyphicon-lock:before {
    content: "\e033";
  }
  .glyphicon-flag:before {
    content: "\e034";
  }
  .glyphicon-headphones:before {
    content: "\e035";
  }
  .glyphicon-volume-off:before {
    content: "\e036";
  }
  .glyphicon-volume-down:before {
    content: "\e037";
  }
  .glyphicon-volume-up:before {
    content: "\e038";
  }
  .glyphicon-qrcode:before {
    content: "\e039";
  }
  .glyphicon-barcode:before {
    content: "\e040";
  }
  .glyphicon-tag:before {
    content: "\e041";
  }
  .glyphicon-tags:before {
    content: "\e042";
  }
  .glyphicon-book:before {
    content: "\e043";
  }
  .glyphicon-bookmark:before {
    content: "\e044";
  }
  .glyphicon-print:before {
    content: "\e045";
  }
  .glyphicon-camera:before {
    content: "\e046";
  }
  .glyphicon-font:before {
    content: "\e047";
  }
  .glyphicon-bold:before {
    content: "\e048";
  }
```

```
.glyphicon-italic:before {
  content: "\e049";
}
.glyphicon-text-height:before {
  content: "\e050";
}
.glyphicon-text-width:before {
  content: "\e051";
}
.glyphicon-align-left:before {
  content: "\e052";
}
.glyphicon-align-center:before {
  content: "\e053";
}
.glyphicon-align-right:before {
  content: "\e054";
}
.glyphicon-align-justify:before {
  content: "\e055";
}
.glyphicon-list:before {
  content: "\e056";
}
.glyphicon-indent-left:before {
  content: "\e057";
}
.glyphicon-indent-right:before {
  content: "\e058";
}
.glyphicon-facetime-video:before {
  content: "\e059";
}
.glyphicon-picture:before {
  content: "\e060";
}
.glyphicon-map-marker:before {
  content: "\e062";
}
.glyphicon-adjust:before {
  content: "\e063";
}
.glyphicon-tint:before {
  content: "\e064";
}
.glyphicon-edit:before {
  content: "\e065";
}
.glyphicon-share:before {
  content: "\e066";
}
.glyphicon-check:before {
  content: "\e067";
}
.glyphicon-move:before {
  content: "\e068";
}
.glyphicon-step-backward:before {
  content: "\e069";
}
.glyphicon-fast-backward:before {
  content: "\e070";
}
.glyphicon-backward:before {
  content: "\e071";
```

```
}
.glyphicon-play:before {
  content: "\e072";
}
.glyphicon-pause:before {
  content: "\e073";
}
.glyphicon-stop:before {
  content: "\e074";
}
.glyphicon-forward:before {
  content: "\e075";
}
.glyphicon-fast-forward:before {
  content: "\e076";
}
.glyphicon-step-forward:before {
  content: "\e077";
}
.glyphicon-eject:before {
  content: "\e078";
}
.glyphicon-chevron-left:before {
  content: "\e079";
}
.glyphicon-chevron-right:before {
  content: "\e080";
}
.glyphicon-plus-sign:before {
  content: "\e081";
}
.glyphicon-minus-sign:before {
  content: "\e082";
}
.glyphicon-remove-sign:before {
  content: "\e083";
}
.glyphicon-ok-sign:before {
  content: "\e084";
}
.glyphicon-question-sign:before {
  content: "\e085";
}
.glyphicon-info-sign:before {
  content: "\e086";
}
.glyphicon-screenshot:before {
  content: "\e087";
}
.glyphicon-remove-circle:before {
  content: "\e088";
}
.glyphicon-ok-circle:before {
  content: "\e089";
}
.glyphicon-ban-circle:before {
  content: "\e090";
}
.glyphicon-arrow-left:before {
  content: "\e091";
}
.glyphicon-arrow-right:before {
  content: "\e092";
}
.glyphicon-arrow-up:before {
```

```
    content: "\e093";
  }
  .glyphicon-arrow-down:before {
    content: "\e094";
  }
  .glyphicon-share-alt:before {
    content: "\e095";
  }
  .glyphicon-resize-full:before {
    content: "\e096";
  }
  .glyphicon-resize-small:before {
    content: "\e097";
  }
  .glyphicon-exclamation-sign:before {
    content: "\e101";
  }
  .glyphicon-gift:before {
    content: "\e102";
  }
  .glyphicon-leaf:before {
    content: "\e103";
  }
  .glyphicon-fire:before {
    content: "\e104";
  }
  .glyphicon-eye-open:before {
    content: "\e105";
  }
  .glyphicon-eye-close:before {
    content: "\e106";
  }
  .glyphicon-warning-sign:before {
    content: "\e107";
  }
  .glyphicon-plane:before {
    content: "\e108";
  }
  .glyphicon-calendar:before {
    content: "\e109";
  }
  .glyphicon-random:before {
    content: "\e110";
  }
  .glyphicon-comment:before {
    content: "\e111";
  }
  .glyphicon-magnet:before {
    content: "\e112";
  }
  .glyphicon-chevron-up:before {
    content: "\e113";
  }
  .glyphicon-chevron-down:before {
    content: "\e114";
  }
  .glyphicon-retweet:before {
    content: "\e115";
  }
  .glyphicon-shopping-cart:before {
    content: "\e116";
  }
  .glyphicon-folder-close:before {
    content: "\e117";
  }
```

```
.glyphicon-folder-open:before {
  content: "\e118";
}
.glyphicon-resize-vertical:before {
  content: "\e119";
}
.glyphicon-resize-horizontal:before {
  content: "\e120";
}
.glyphicon-hdd:before {
  content: "\e121";
}
.glyphicon-bullhorn:before {
  content: "\e122";
}
.glyphicon-bell:before {
  content: "\e123";
}
.glyphicon-certificate:before {
  content: "\e124";
}
.glyphicon-thumbs-up:before {
  content: "\e125";
}
.glyphicon-thumbs-down:before {
  content: "\e126";
}
.glyphicon-hand-right:before {
  content: "\e127";
}
.glyphicon-hand-left:before {
  content: "\e128";
}
.glyphicon-hand-up:before {
  content: "\e129";
}
.glyphicon-hand-down:before {
  content: "\e130";
}
.glyphicon-circle-arrow-right:before {
  content: "\e131";
}
.glyphicon-circle-arrow-left:before {
  content: "\e132";
}
.glyphicon-circle-arrow-up:before {
  content: "\e133";
}
.glyphicon-circle-arrow-down:before {
  content: "\e134";
}
.glyphicon-globe:before {
  content: "\e135";
}
.glyphicon-wrench:before {
  content: "\e136";
}
.glyphicon-tasks:before {
  content: "\e137";
}
.glyphicon-filter:before {
  content: "\e138";
}
.glyphicon-briefcase:before {
  content: "\e139";
```

```
}
.glyphicon-fullscreen:before {
  content: "\e140";
}
.glyphicon-dashboard:before {
  content: "\e141";
}
.glyphicon-paperclip:before {
  content: "\e142";
}
.glyphicon-heart-empty:before {
  content: "\e143";
}
.glyphicon-link:before {
  content: "\e144";
}
.glyphicon-phone:before {
  content: "\e145";
}
.glyphicon-pushpin:before {
  content: "\e146";
}
.glyphicon-usd:before {
  content: "\e148";
}
.glyphicon-gbp:before {
  content: "\e149";
}
.glyphicon-sort:before {
  content: "\e150";
}
.glyphicon-sort-by-alphabet:before {
  content: "\e151";
}
.glyphicon-sort-by-alphabet-alt:before {
  content: "\e152";
}
.glyphicon-sort-by-order:before {
  content: "\e153";
}
.glyphicon-sort-by-order-alt:before {
  content: "\e154";
}
.glyphicon-sort-by-attributes:before {
  content: "\e155";
}
.glyphicon-sort-by-attributes-alt:before {
  content: "\e156";
}
.glyphicon-unchecked:before {
  content: "\e157";
}
.glyphicon-expand:before {
  content: "\e158";
}
.glyphicon-collapse-down:before {
  content: "\e159";
}
.glyphicon-collapse-up:before {
  content: "\e160";
}
.glyphicon-log-in:before {
  content: "\e161";
}
.glyphicon-flash:before {
```

```
    content: "\e162";
  }
  .glyphicon-log-out:before {
    content: "\e163";
  }
  .glyphicon-new-window:before {
    content: "\e164";
  }
  .glyphicon-record:before {
    content: "\e165";
  }
  .glyphicon-save:before {
    content: "\e166";
  }
  .glyphicon-open:before {
    content: "\e167";
  }
  .glyphicon-saved:before {
    content: "\e168";
  }
  .glyphicon-import:before {
    content: "\e169";
  }
  .glyphicon-export:before {
    content: "\e170";
  }
  .glyphicon-send:before {
    content: "\e171";
  }
  .glyphicon-floppy-disk:before {
    content: "\e172";
  }
  .glyphicon-floppy-saved:before {
    content: "\e173";
  }
  .glyphicon-floppy-remove:before {
    content: "\e174";
  }
  .glyphicon-floppy-save:before {
    content: "\e175";
  }
  .glyphicon-floppy-open:before {
    content: "\e176";
  }
  .glyphicon-credit-card:before {
    content: "\e177";
  }
  .glyphicon-transfer:before {
    content: "\e178";
  }
  .glyphicon-cutlery:before {
    content: "\e179";
  }
  .glyphicon-header:before {
    content: "\e180";
  }
  .glyphicon-compressed:before {
    content: "\e181";
  }
  .glyphicon-earphone:before {
    content: "\e182";
  }
  .glyphicon-phone-alt:before {
    content: "\e183";
  }
```

```
.glyphicon-tower:before {
  content: "\e184";
}
.glyphicon-stats:before {
  content: "\e185";
}
.glyphicon-sd-video:before {
  content: "\e186";
}
.glyphicon-hd-video:before {
  content: "\e187";
}
.glyphicon-subtitles:before {
  content: "\e188";
}
.glyphicon-sound-stereo:before {
  content: "\e189";
}
.glyphicon-sound-dolby:before {
  content: "\e190";
}
.glyphicon-sound-5-1:before {
  content: "\e191";
}
.glyphicon-sound-6-1:before {
  content: "\e192";
}
.glyphicon-sound-7-1:before {
  content: "\e193";
}
.glyphicon-copyright-mark:before {
  content: "\e194";
}
.glyphicon-registration-mark:before {
  content: "\e195";
}
.glyphicon-cloud-download:before {
  content: "\e197";
}
.glyphicon-cloud-upload:before {
  content: "\e198";
}
.glyphicon-tree-conifer:before {
  content: "\e199";
}
.glyphicon-tree-deciduous:before {
  content: "\e200";
}
.glyphicon-cd:before {
  content: "\e201";
}
.glyphicon-save-file:before {
  content: "\e202";
}
.glyphicon-open-file:before {
  content: "\e203";
}
.glyphicon-level-up:before {
  content: "\e204";
}
.glyphicon-copy:before {
  content: "\e205";
}
.glyphicon-paste:before {
  content: "\e206";
```

```
}
.glyphicon-alert:before {
  content: "\e209";
}
.glyphicon-equalizer:before {
  content: "\e210";
}
.glyphicon-king:before {
  content: "\e211";
}
.glyphicon-queen:before {
  content: "\e212";
}
.glyphicon-pawn:before {
  content: "\e213";
}
.glyphicon-bishop:before {
  content: "\e214";
}
.glyphicon-knight:before {
  content: "\e215";
}
.glyphicon-baby-formula:before {
  content: "\e216";
}
.glyphicon-tent:before {
  content: "\26fa";
}
.glyphicon-blackboard:before {
  content: "\e218";
}
.glyphicon-bed:before {
  content: "\e219";
}
.glyphicon-apple:before {
  content: "\f8ff";
}
.glyphicon-erase:before {
  content: "\e221";
}
.glyphicon-hourglass:before {
  content: "\231b";
}
.glyphicon-lamp:before {
  content: "\e223";
}
.glyphicon-duplicate:before {
  content: "\e224";
}
.glyphicon-piggy-bank:before {
  content: "\e225";
}
.glyphicon-scissors:before {
  content: "\e226";
}
.glyphicon-bitcoin:before {
  content: "\e227";
}
.glyphicon-btc:before {
  content: "\e227";
}
.glyphicon-xbt:before {
  content: "\e227";
}
.glyphicon-yen:before {
```

```
    content: "\00a5";
  }
  .glyphicon-jpy:before {
    content: "\00a5";
  }
  .glyphicon-ruble:before {
    content: "\20bd";
  }
  .glyphicon-rub:before {
    content: "\20bd";
  }
  .glyphicon-scale:before {
    content: "\e230";
  }
  .glyphicon-ice-lolly:before {
    content: "\e231";
  }
  .glyphicon-ice-lolly-tasted:before {
    content: "\e232";
  }
  .glyphicon-education:before {
    content: "\e233";
  }
  .glyphicon-option-horizontal:before {
    content: "\e234";
  }
  .glyphicon-option-vertical:before {
    content: "\e235";
  }
  .glyphicon-menu-hamburger:before {
    content: "\e236";
  }
  .glyphicon-modal-window:before {
    content: "\e237";
  }
  .glyphicon-oil:before {
    content: "\e238";
  }
  .glyphicon-grain:before {
    content: "\e239";
  }
  .glyphicon-sunglasses:before {
    content: "\e240";
  }
  .glyphicon-text-size:before {
    content: "\e241";
  }
  .glyphicon-text-color:before {
    content: "\e242";
  }
  .glyphicon-text-background:before {
    content: "\e243";
  }
  .glyphicon-object-align-top:before {
    content: "\e244";
  }
  .glyphicon-object-align-bottom:before {
    content: "\e245";
  }
  .glyphicon-object-align-horizontal:before {
    content: "\e246";
  }
  .glyphicon-object-align-left:before {
    content: "\e247";
  }
```

```
.glyphicon-object-align-vertical:before {
  content: "\e248";
}
.glyphicon-object-align-right:before {
  content: "\e249";
}
.glyphicon-triangle-right:before {
  content: "\e250";
}
.glyphicon-triangle-left:before {
  content: "\e251";
}
.glyphicon-triangle-bottom:before {
  content: "\e252";
}
.glyphicon-triangle-top:before {
  content: "\e253";
}
.glyphicon-console:before {
  content: "\e254";
}
.glyphicon-superscript:before {
  content: "\e255";
}
.glyphicon-subscript:before {
  content: "\e256";
}
.glyphicon-menu-left:before {
  content: "\e257";
}
.glyphicon-menu-right:before {
  content: "\e258";
}
.glyphicon-menu-down:before {
  content: "\e259";
}
.glyphicon-menu-up:before {
  content: "\e260";
}
* {
  -webkit-box-sizing: border-box;
  -moz-box-sizing: border-box;
  box-sizing: border-box;
}
*:before,
*:after {
  -webkit-box-sizing: border-box;
  -moz-box-sizing: border-box;
  box-sizing: border-box;
}
html {
  font-size: 10px;
  -webkit-tap-highlight-color: rgba(0, 0, 0, 0);
}
body {
  font-family: "Helvetica Neue", Helvetica, Arial, sans-serif;
  font-size: 13px;
  line-height: 1.42857143;
  color: #000;
  background-color: #fff;
}
input,
button,
select,
textarea {
```

```
  font-family: inherit;
  font-size: inherit;
  line-height: inherit;
}
a {
  color: #337ab7;
  text-decoration: none;
}
a:hover,
a:focus {
  color: #23527c;
  text-decoration: underline;
}
a:focus {
  outline: 5px auto -webkit-focus-ring-color;
  outline-offset: -2px;
}
figure {
  margin: 0;
}
img {
  vertical-align: middle;
}
.img-responsive,
.thumbnail > img,
.thumbnail a > img,
.carousel-inner > .item > img,
.carousel-inner > .item > a > img {
  display: block;
  max-width: 100%;
  height: auto;
}
.img-rounded {
  border-radius: 3px;
}
.img-thumbnail {
  padding: 4px;
  line-height: 1.42857143;
  background-color: #fff;
  border: 1px solid #ddd;
  border-radius: 2px;
  -webkit-transition: all 0.2s ease-in-out;
  -o-transition: all 0.2s ease-in-out;
  transition: all 0.2s ease-in-out;
  display: inline-block;
  max-width: 100%;
  height: auto;
}
.img-circle {
  border-radius: 50%;
}
hr {
  margin-top: 18px;
  margin-bottom: 18px;
  border: 0;
  border-top: 1px solid #eeeeee;
}
.sr-only {
  position: absolute;
  width: 1px;
  height: 1px;
  margin: -1px;
  padding: 0;
  overflow: hidden;
  clip: rect(0, 0, 0, 0);
```

```
  border: 0;
}
.sr-only-focusable:active,
.sr-only-focusable:focus {
  position: static;
  width: auto;
  height: auto;
  margin: 0;
  overflow: visible;
  clip: auto;
}
[role="button"] {
  cursor: pointer;
}
h1,
h2,
h3,
h4,
h5,
h6,
.h1,
.h2,
.h3,
.h4,
.h5,
.h6 {
  font-family: inherit;
  font-weight: 500;
  line-height: 1.1;
  color: inherit;
}
h1 small,
h2 small,
h3 small,
h4 small,
h5 small,
h6 small,
.h1 small,
.h2 small,
.h3 small,
.h4 small,
.h5 small,
.h6 small,
h1 .small,
h2 .small,
h3 .small,
h4 .small,
h5 .small,
h6 .small,
.h1 .small,
.h2 .small,
.h3 .small,
.h4 .small,
.h5 .small,
.h6 .small {
  font-weight: normal;
  line-height: 1;
  color: #777777;
}
h1,
.h1,
h2,
.h2,
h3,
.h3 {
```

```
  margin-top: 18px;
  margin-bottom: 9px;
}
h1 small,
.h1 small,
h2 small,
.h2 small,
h3 small,
.h3 small,
h1 .small,
.h1 .small,
h2 .small,
.h2 .small,
h3 .small,
.h3 .small {
  font-size: 65%;
}
h4,
.h4,
h5,
.h5,
h6,
.h6 {
  margin-top: 9px;
  margin-bottom: 9px;
}
h4 small,
.h4 small,
h5 small,
.h5 small,
h6 small,
.h6 small,
h4 .small,
.h4 .small,
h5 .small,
.h5 .small,
h6 .small,
.h6 .small {
  font-size: 75%;
}
h1,
.h1 {
  font-size: 33px;
}
h2,
.h2 {
  font-size: 27px;
}
h3,
.h3 {
  font-size: 23px;
}
h4,
.h4 {
  font-size: 17px;
}
h5,
.h5 {
  font-size: 13px;
}
h6,
.h6 {
  font-size: 12px;
}
p {
```

```
  margin: 0 0 9px;
}
.lead {
  margin-bottom: 18px;
  font-size: 14px;
  font-weight: 300;
  line-height: 1.4;
}
@media (min-width: 768px) {
  .lead {
    font-size: 19.5px;
  }
}
small,
.small {
  font-size: 92%;
}
mark,
.mark {
  background-color: #fcf8e3;
  padding: .2em;
}
.text-left {
  text-align: left;
}
.text-right {
  text-align: right;
}
.text-center {
  text-align: center;
}
.text-justify {
  text-align: justify;
}
.text-nowrap {
  white-space: nowrap;
}
.text-lowercase {
  text-transform: lowercase;
}
.text-uppercase {
  text-transform: uppercase;
}
.text-capitalize {
  text-transform: capitalize;
}
.text-muted {
  color: #777777;
}
.text-primary {
  color: #337ab7;
}
a.text-primary:hover,
a.text-primary:focus {
  color: #286090;
}
.text-success {
  color: #3c763d;
}
a.text-success:hover,
a.text-success:focus {
  color: #2b542c;
}
.text-info {
  color: #31708f;
```

```
}
a.text-info:hover,
a.text-info:focus {
  color: #245269;
}
.text-warning {
  color: #8a6d3b;
}
a.text-warning:hover,
a.text-warning:focus {
  color: #66512c;
}
.text-danger {
  color: #a94442;
}
a.text-danger:hover,
a.text-danger:focus {
  color: #843534;
}
.bg-primary {
  color: #fff;
  background-color: #337ab7;
}
a.bg-primary:hover,
a.bg-primary:focus {
  background-color: #286090;
}
.bg-success {
  background-color: #dff0d8;
}
a.bg-success:hover,
a.bg-success:focus {
  background-color: #c1e2b3;
}
.bg-info {
  background-color: #d9edf7;
}
a.bg-info:hover,
a.bg-info:focus {
  background-color: #afd9ee;
}
.bg-warning {
  background-color: #fcf8e3;
}
a.bg-warning:hover,
a.bg-warning:focus {
  background-color: #f7ecb5;
}
.bg-danger {
  background-color: #f2dede;
}
a.bg-danger:hover,
a.bg-danger:focus {
  background-color: #e4b9b9;
}
.page-header {
  padding-bottom: 8px;
  margin: 36px 0 18px;
  border-bottom: 1px solid #eeeeee;
}
ul,
ol {
  margin-top: 0;
  margin-bottom: 9px;
}
```

```
ul ul,
ol ul,
ul ol,
ol ol {
  margin-bottom: 0;
}
.list-unstyled {
  padding-left: 0;
  list-style: none;
}
.list-inline {
  padding-left: 0;
  list-style: none;
  margin-left: -5px;
}
.list-inline > li {
  display: inline-block;
  padding-left: 5px;
  padding-right: 5px;
}
dl {
  margin-top: 0;
  margin-bottom: 18px;
}
dt,
dd {
  line-height: 1.42857143;
}
dt {
  font-weight: bold;
}
dd {
  margin-left: 0;
}
@media (min-width: 541px) {
  .dl-horizontal dt {
    float: left;
    width: 160px;
    clear: left;
    text-align: right;
    overflow: hidden;
    text-overflow: ellipsis;
    white-space: nowrap;
  }
  .dl-horizontal dd {
    margin-left: 180px;
  }
}
abbr[title],
abbr[data-original-title] {
  cursor: help;
  border-bottom: 1px dotted #777777;
}
.initialism {
  font-size: 90%;
  text-transform: uppercase;
}
blockquote {
  padding: 9px 18px;
  margin: 0 0 18px;
  font-size: inherit;
  border-left: 5px solid #eeeeee;
}
blockquote p:last-child,
blockquote ul:last-child,
```

```
blockquote ol:last-child {
  margin-bottom: 0;
}
blockquote footer,
blockquote small,
blockquote .small {
  display: block;
  font-size: 80%;
  line-height: 1.42857143;
  color: #777777;
}
blockquote footer:before,
blockquote small:before,
blockquote .small:before {
  content: '\2014 \00A0';
}
.blockquote-reverse,
blockquote.pull-right {
  padding-right: 15px;
  padding-left: 0;
  border-right: 5px solid #eeeeee;
  border-left: 0;
  text-align: right;
}
.blockquote-reverse footer:before,
blockquote.pull-right footer:before,
.blockquote-reverse small:before,
blockquote.pull-right small:before,
.blockquote-reverse .small:before,
blockquote.pull-right .small:before {
  content: '';
}
.blockquote-reverse footer:after,
blockquote.pull-right footer:after,
.blockquote-reverse small:after,
blockquote.pull-right small:after,
.blockquote-reverse .small:after,
blockquote.pull-right .small:after {
  content: '\00A0 \2014';
}
address {
  margin-bottom: 18px;
  font-style: normal;
  line-height: 1.42857143;
}
code,
kbd,
pre,
samp {
  font-family: monospace;
}
code {
  padding: 2px 4px;
  font-size: 90%;
  color: #c7254e;
  background-color: #f9f2f4;
  border-radius: 2px;
}
kbd {
  padding: 2px 4px;
  font-size: 90%;
  color: #888;
  background-color: transparent;
  border-radius: 1px;
  box-shadow: inset 0 -1px 0 rgba(0, 0, 0, 0.25);
```

```
}
kbd kbd {
  padding: 0;
  font-size: 100%;
  font-weight: bold;
  box-shadow: none;
}
pre {
  display: block;
  padding: 8.5px;
  margin: 0 0 9px;
  font-size: 12px;
  line-height: 1.42857143;
  word-break: break-all;
  word-wrap: break-word;
  color: #333333;
  background-color: #f5f5f5;
  border: 1px solid #ccc;
  border-radius: 2px;
}
pre code {
  padding: 0;
  font-size: inherit;
  color: inherit;
  white-space: pre-wrap;
  background-color: transparent;
  border-radius: 0;
}
.pre-scrollable {
  max-height: 340px;
  overflow-y: scroll;
}
.container {
  margin-right: auto;
  margin-left: auto;
  padding-left: 0px;
  padding-right: 0px;
}
@media (min-width: 768px) {
  .container {
    width: 768px;
  }
}
@media (min-width: 992px) {
  .container {
    width: 940px;
  }
}
@media (min-width: 1200px) {
  .container {
    width: 1140px;
  }
}
.container-fluid {
  margin-right: auto;
  margin-left: auto;
  padding-left: 0px;
  padding-right: 0px;
}
.row {
  margin-left: 0px;
  margin-right: 0px;
}
.col-xs-1, .col-sm-1, .col-md-1, .col-lg-1, .col-xs-2, .col-sm-2, .col-md-2, .col-lg-2, .col-xs-3,
.col-sm-3, .col-md-3, .col-lg-3, .col-xs-4, .col-sm-4, .col-md-4, .col-lg-4, .col-xs-5, .col-sm-5,
```

```
.col-md-5, .col-lg-5, .col-xs-6, .col-sm-6, .col-md-6, .col-lg-6, .col-xs-7, .col-sm-7, .col-md-7,
.col-lg-7, .col-xs-8, .col-sm-8, .col-md-8, .col-lg-8, .col-xs-9, .col-sm-9, .col-md-9, .col-lg-9,
.col-xs-10, .col-sm-10, .col-md-10, .col-lg-10, .col-xs-11, .col-sm-11, .col-md-11, .col-lg-11, .col-
xs-12, .col-sm-12, .col-md-12, .col-lg-12 {
  position: relative;
  min-height: 1px;
  padding-left: 0px;
  padding-right: 0px;
}
.col-xs-1, .col-xs-2, .col-xs-3, .col-xs-4, .col-xs-5, .col-xs-6, .col-xs-7, .col-xs-8, .col-xs-9,
.col-xs-10, .col-xs-11, .col-xs-12 {
  float: left;
}
.col-xs-12 {
  width: 100%;
}
.col-xs-11 {
  width: 91.66666667%;
}
.col-xs-10 {
  width: 83.33333333%;
}
.col-xs-9 {
  width: 75%;
}
.col-xs-8 {
  width: 66.66666667%;
}
.col-xs-7 {
  width: 58.33333333%;
}
.col-xs-6 {
  width: 50%;
}
.col-xs-5 {
  width: 41.66666667%;
}
.col-xs-4 {
  width: 33.33333333%;
}
.col-xs-3 {
  width: 25%;
}
.col-xs-2 {
  width: 16.66666667%;
}
.col-xs-1 {
  width: 8.33333333%;
}
.col-xs-pull-12 {
  right: 100%;
}
.col-xs-pull-11 {
  right: 91.66666667%;
}
.col-xs-pull-10 {
  right: 83.33333333%;
}
.col-xs-pull-9 {
  right: 75%;
}
.col-xs-pull-8 {
  right: 66.66666667%;
}
.col-xs-pull-7 {
```

```
    right: 58.33333333%;
  }
  .col-xs-pull-6 {
    right: 50%;
  }
  .col-xs-pull-5 {
    right: 41.66666667%;
  }
  .col-xs-pull-4 {
    right: 33.33333333%;
  }
  .col-xs-pull-3 {
    right: 25%;
  }
  .col-xs-pull-2 {
    right: 16.66666667%;
  }
  .col-xs-pull-1 {
    right: 8.33333333%;
  }
  .col-xs-pull-0 {
    right: auto;
  }
  .col-xs-push-12 {
    left: 100%;
  }
  .col-xs-push-11 {
    left: 91.66666667%;
  }
  .col-xs-push-10 {
    left: 83.33333333%;
  }
  .col-xs-push-9 {
    left: 75%;
  }
  .col-xs-push-8 {
    left: 66.66666667%;
  }
  .col-xs-push-7 {
    left: 58.33333333%;
  }
  .col-xs-push-6 {
    left: 50%;
  }
  .col-xs-push-5 {
    left: 41.66666667%;
  }
  .col-xs-push-4 {
    left: 33.33333333%;
  }
  .col-xs-push-3 {
    left: 25%;
  }
  .col-xs-push-2 {
    left: 16.66666667%;
  }
  .col-xs-push-1 {
    left: 8.33333333%;
  }
  .col-xs-push-0 {
    left: auto;
  }
  .col-xs-offset-12 {
    margin-left: 100%;
  }
```

```
.col-xs-offset-11 {
  margin-left: 91.66666667%;
}
.col-xs-offset-10 {
  margin-left: 83.33333333%;
}
.col-xs-offset-9 {
  margin-left: 75%;
}
.col-xs-offset-8 {
  margin-left: 66.66666667%;
}
.col-xs-offset-7 {
  margin-left: 58.33333333%;
}
.col-xs-offset-6 {
  margin-left: 50%;
}
.col-xs-offset-5 {
  margin-left: 41.66666667%;
}
.col-xs-offset-4 {
  margin-left: 33.33333333%;
}
.col-xs-offset-3 {
  margin-left: 25%;
}
.col-xs-offset-2 {
  margin-left: 16.66666667%;
}
.col-xs-offset-1 {
  margin-left: 8.33333333%;
}
.col-xs-offset-0 {
  margin-left: 0%;
}
@media (min-width: 768px) {
  .col-sm-1, .col-sm-2, .col-sm-3, .col-sm-4, .col-sm-5, .col-sm-6, .col-sm-7, .col-sm-8, .col-sm-9,
.col-sm-10, .col-sm-11, .col-sm-12 {
    float: left;
  }
  .col-sm-12 {
    width: 100%;
  }
  .col-sm-11 {
    width: 91.66666667%;
  }
  .col-sm-10 {
    width: 83.33333333%;
  }
  .col-sm-9 {
    width: 75%;
  }
  .col-sm-8 {
    width: 66.66666667%;
  }
  .col-sm-7 {
    width: 58.33333333%;
  }
  .col-sm-6 {
    width: 50%;
  }
  .col-sm-5 {
    width: 41.66666667%;
  }
```

```
.col-sm-4 {
  width: 33.33333333%;
}
.col-sm-3 {
  width: 25%;
}
.col-sm-2 {
  width: 16.66666667%;
}
.col-sm-1 {
  width: 8.33333333%;
}
.col-sm-pull-12 {
  right: 100%;
}
.col-sm-pull-11 {
  right: 91.66666667%;
}
.col-sm-pull-10 {
  right: 83.33333333%;
}
.col-sm-pull-9 {
  right: 75%;
}
.col-sm-pull-8 {
  right: 66.66666667%;
}
.col-sm-pull-7 {
  right: 58.33333333%;
}
.col-sm-pull-6 {
  right: 50%;
}
.col-sm-pull-5 {
  right: 41.66666667%;
}
.col-sm-pull-4 {
  right: 33.33333333%;
}
.col-sm-pull-3 {
  right: 25%;
}
.col-sm-pull-2 {
  right: 16.66666667%;
}
.col-sm-pull-1 {
  right: 8.33333333%;
}
.col-sm-pull-0 {
  right: auto;
}
.col-sm-push-12 {
  left: 100%;
}
.col-sm-push-11 {
  left: 91.66666667%;
}
.col-sm-push-10 {
  left: 83.33333333%;
}
.col-sm-push-9 {
  left: 75%;
}
.col-sm-push-8 {
  left: 66.66666667%;
```

```
    }
    .col-sm-push-7 {
      left: 58.33333333%;
    }
    .col-sm-push-6 {
      left: 50%;
    }
    .col-sm-push-5 {
      left: 41.66666667%;
    }
    .col-sm-push-4 {
      left: 33.33333333%;
    }
    .col-sm-push-3 {
      left: 25%;
    }
    .col-sm-push-2 {
      left: 16.66666667%;
    }
    .col-sm-push-1 {
      left: 8.33333333%;
    }
    .col-sm-push-0 {
      left: auto;
    }
    .col-sm-offset-12 {
      margin-left: 100%;
    }
    .col-sm-offset-11 {
      margin-left: 91.66666667%;
    }
    .col-sm-offset-10 {
      margin-left: 83.33333333%;
    }
    .col-sm-offset-9 {
      margin-left: 75%;
    }
    .col-sm-offset-8 {
      margin-left: 66.66666667%;
    }
    .col-sm-offset-7 {
      margin-left: 58.33333333%;
    }
    .col-sm-offset-6 {
      margin-left: 50%;
    }
    .col-sm-offset-5 {
      margin-left: 41.66666667%;
    }
    .col-sm-offset-4 {
      margin-left: 33.33333333%;
    }
    .col-sm-offset-3 {
      margin-left: 25%;
    }
    .col-sm-offset-2 {
      margin-left: 16.66666667%;
    }
    .col-sm-offset-1 {
      margin-left: 8.33333333%;
    }
    .col-sm-offset-0 {
      margin-left: 0%;
    }
  }
```

```
@media (min-width: 992px) {
  .col-md-1, .col-md-2, .col-md-3, .col-md-4, .col-md-5, .col-md-6, .col-md-7, .col-md-8, .col-md-9,
.col-md-10, .col-md-11, .col-md-12 {
    float: left;
  }
  .col-md-12 {
    width: 100%;
  }
  .col-md-11 {
    width: 91.66666667%;
  }
  .col-md-10 {
    width: 83.33333333%;
  }
  .col-md-9 {
    width: 75%;
  }
  .col-md-8 {
    width: 66.66666667%;
  }
  .col-md-7 {
    width: 58.33333333%;
  }
  .col-md-6 {
    width: 50%;
  }
  .col-md-5 {
    width: 41.66666667%;
  }
  .col-md-4 {
    width: 33.33333333%;
  }
  .col-md-3 {
    width: 25%;
  }
  .col-md-2 {
    width: 16.66666667%;
  }
  .col-md-1 {
    width: 8.33333333%;
  }
  .col-md-pull-12 {
    right: 100%;
  }
  .col-md-pull-11 {
    right: 91.66666667%;
  }
  .col-md-pull-10 {
    right: 83.33333333%;
  }
  .col-md-pull-9 {
    right: 75%;
  }
  .col-md-pull-8 {
    right: 66.66666667%;
  }
  .col-md-pull-7 {
    right: 58.33333333%;
  }
  .col-md-pull-6 {
    right: 50%;
  }
  .col-md-pull-5 {
    right: 41.66666667%;
  }
```

```
.col-md-pull-4 {
  right: 33.33333333%;
}
.col-md-pull-3 {
  right: 25%;
}
.col-md-pull-2 {
  right: 16.66666667%;
}
.col-md-pull-1 {
  right: 8.33333333%;
}
.col-md-pull-0 {
  right: auto;
}
.col-md-push-12 {
  left: 100%;
}
.col-md-push-11 {
  left: 91.66666667%;
}
.col-md-push-10 {
  left: 83.33333333%;
}
.col-md-push-9 {
  left: 75%;
}
.col-md-push-8 {
  left: 66.66666667%;
}
.col-md-push-7 {
  left: 58.33333333%;
}
.col-md-push-6 {
  left: 50%;
}
.col-md-push-5 {
  left: 41.66666667%;
}
.col-md-push-4 {
  left: 33.33333333%;
}
.col-md-push-3 {
  left: 25%;
}
.col-md-push-2 {
  left: 16.66666667%;
}
.col-md-push-1 {
  left: 8.33333333%;
}
.col-md-push-0 {
  left: auto;
}
.col-md-offset-12 {
  margin-left: 100%;
}
.col-md-offset-11 {
  margin-left: 91.66666667%;
}
.col-md-offset-10 {
  margin-left: 83.33333333%;
}
.col-md-offset-9 {
  margin-left: 75%;
```

```
    }
    .col-md-offset-8 {
      margin-left: 66.66666667%;
    }
    .col-md-offset-7 {
      margin-left: 58.33333333%;
    }
    .col-md-offset-6 {
      margin-left: 50%;
    }
    .col-md-offset-5 {
      margin-left: 41.66666667%;
    }
    .col-md-offset-4 {
      margin-left: 33.33333333%;
    }
    .col-md-offset-3 {
      margin-left: 25%;
    }
    .col-md-offset-2 {
      margin-left: 16.66666667%;
    }
    .col-md-offset-1 {
      margin-left: 8.33333333%;
    }
    .col-md-offset-0 {
      margin-left: 0%;
    }
  }
  @media (min-width: 1200px) {
    .col-lg-1, .col-lg-2, .col-lg-3, .col-lg-4, .col-lg-5, .col-lg-6, .col-lg-7, .col-lg-8, .col-lg-9,
  .col-lg-10, .col-lg-11, .col-lg-12 {
      float: left;
    }
    .col-lg-12 {
      width: 100%;
    }
    .col-lg-11 {
      width: 91.66666667%;
    }
    .col-lg-10 {
      width: 83.33333333%;
    }
    .col-lg-9 {
      width: 75%;
    }
    .col-lg-8 {
      width: 66.66666667%;
    }
    .col-lg-7 {
      width: 58.33333333%;
    }
    .col-lg-6 {
      width: 50%;
    }
    .col-lg-5 {
      width: 41.66666667%;
    }
    .col-lg-4 {
      width: 33.33333333%;
    }
    .col-lg-3 {
      width: 25%;
    }
    .col-lg-2 {
```

```
    width: 16.66666667%;
  }
  .col-lg-1 {
    width: 8.33333333%;
  }
  .col-lg-pull-12 {
    right: 100%;
  }
  .col-lg-pull-11 {
    right: 91.66666667%;
  }
  .col-lg-pull-10 {
    right: 83.33333333%;
  }
  .col-lg-pull-9 {
    right: 75%;
  }
  .col-lg-pull-8 {
    right: 66.66666667%;
  }
  .col-lg-pull-7 {
    right: 58.33333333%;
  }
  .col-lg-pull-6 {
    right: 50%;
  }
  .col-lg-pull-5 {
    right: 41.66666667%;
  }
  .col-lg-pull-4 {
    right: 33.33333333%;
  }
  .col-lg-pull-3 {
    right: 25%;
  }
  .col-lg-pull-2 {
    right: 16.66666667%;
  }
  .col-lg-pull-1 {
    right: 8.33333333%;
  }
  .col-lg-pull-0 {
    right: auto;
  }
  .col-lg-push-12 {
    left: 100%;
  }
  .col-lg-push-11 {
    left: 91.66666667%;
  }
  .col-lg-push-10 {
    left: 83.33333333%;
  }
  .col-lg-push-9 {
    left: 75%;
  }
  .col-lg-push-8 {
    left: 66.66666667%;
  }
  .col-lg-push-7 {
    left: 58.33333333%;
  }
  .col-lg-push-6 {
    left: 50%;
  }
```

```
    .col-lg-push-5 {
      left: 41.66666667%;
    }
    .col-lg-push-4 {
      left: 33.33333333%;
    }
    .col-lg-push-3 {
      left: 25%;
    }
    .col-lg-push-2 {
      left: 16.66666667%;
    }
    .col-lg-push-1 {
      left: 8.33333333%;
    }
    .col-lg-push-0 {
      left: auto;
    }
    .col-lg-offset-12 {
      margin-left: 100%;
    }
    .col-lg-offset-11 {
      margin-left: 91.66666667%;
    }
    .col-lg-offset-10 {
      margin-left: 83.33333333%;
    }
    .col-lg-offset-9 {
      margin-left: 75%;
    }
    .col-lg-offset-8 {
      margin-left: 66.66666667%;
    }
    .col-lg-offset-7 {
      margin-left: 58.33333333%;
    }
    .col-lg-offset-6 {
      margin-left: 50%;
    }
    .col-lg-offset-5 {
      margin-left: 41.66666667%;
    }
    .col-lg-offset-4 {
      margin-left: 33.33333333%;
    }
    .col-lg-offset-3 {
      margin-left: 25%;
    }
    .col-lg-offset-2 {
      margin-left: 16.66666667%;
    }
    .col-lg-offset-1 {
      margin-left: 8.33333333%;
    }
    .col-lg-offset-0 {
      margin-left: 0%;
    }
  }
  table {
    background-color: transparent;
  }
  caption {
    padding-top: 8px;
    padding-bottom: 8px;
    color: #777777;
```

```
    text-align: left;
  }
  th {
    text-align: left;
  }
  .table {
    width: 100%;
    max-width: 100%;
    margin-bottom: 18px;
  }
  .table > thead > tr > th,
  .table > tbody > tr > th,
  .table > tfoot > tr > th,
  .table > thead > tr > td,
  .table > tbody > tr > td,
  .table > tfoot > tr > td {
    padding: 8px;
    line-height: 1.42857143;
    vertical-align: top;
    border-top: 1px solid #ddd;
  }
  .table > thead > tr > th {
    vertical-align: bottom;
    border-bottom: 2px solid #ddd;
  }
  .table > caption + thead > tr:first-child > th,
  .table > colgroup + thead > tr:first-child > th,
  .table > thead:first-child > tr:first-child > th,
  .table > caption + thead > tr:first-child > td,
  .table > colgroup + thead > tr:first-child > td,
  .table > thead:first-child > tr:first-child > td {
    border-top: 0;
  }
  .table > tbody + tbody {
    border-top: 2px solid #ddd;
  }
  .table .table {
    background-color: #fff;
  }
  .table-condensed > thead > tr > th,
  .table-condensed > tbody > tr > th,
  .table-condensed > tfoot > tr > th,
  .table-condensed > thead > tr > td,
  .table-condensed > tbody > tr > td,
  .table-condensed > tfoot > tr > td {
    padding: 5px;
  }
  .table-bordered {
    border: 1px solid #ddd;
  }
  .table-bordered > thead > tr > th,
  .table-bordered > tbody > tr > th,
  .table-bordered > tfoot > tr > th,
  .table-bordered > thead > tr > td,
  .table-bordered > tbody > tr > td,
  .table-bordered > tfoot > tr > td {
    border: 1px solid #ddd;
  }
  .table-bordered > thead > tr > th,
  .table-bordered > thead > tr > td {
    border-bottom-width: 2px;
  }
  .table-striped > tbody > tr:nth-of-type(odd) {
    background-color: #f9f9f9;
  }
```

```
.table-hover > tbody > tr:hover {
  background-color: #f5f5f5;
}
table col[class*="col-"] {
  position: static;
  float: none;
  display: table-column;
}
table td[class*="col-"],
table th[class*="col-"] {
  position: static;
  float: none;
  display: table-cell;
}
.table > thead > tr > td.active,
.table > tbody > tr > td.active,
.table > tfoot > tr > td.active,
.table > thead > tr > th.active,
.table > tbody > tr > th.active,
.table > tfoot > tr > th.active,
.table > thead > tr.active > td,
.table > tbody > tr.active > td,
.table > tfoot > tr.active > td,
.table > thead > tr.active > th,
.table > tbody > tr.active > th,
.table > tfoot > tr.active > th {
  background-color: #f5f5f5;
}
.table-hover > tbody > tr > td.active:hover,
.table-hover > tbody > tr > th.active:hover,
.table-hover > tbody > tr.active:hover > td,
.table-hover > tbody > tr:hover > .active,
.table-hover > tbody > tr.active:hover > th {
  background-color: #e8e8e8;
}
.table > thead > tr > td.success,
.table > tbody > tr > td.success,
.table > tfoot > tr > td.success,
.table > thead > tr > th.success,
.table > tbody > tr > th.success,
.table > tfoot > tr > th.success,
.table > thead > tr.success > td,
.table > tbody > tr.success > td,
.table > tfoot > tr.success > td,
.table > thead > tr.success > th,
.table > tbody > tr.success > th,
.table > tfoot > tr.success > th {
  background-color: #dff0d8;
}
.table-hover > tbody > tr > td.success:hover,
.table-hover > tbody > tr > th.success:hover,
.table-hover > tbody > tr.success:hover > td,
.table-hover > tbody > tr:hover > .success,
.table-hover > tbody > tr.success:hover > th {
  background-color: #d0e9c6;
}
.table > thead > tr > td.info,
.table > tbody > tr > td.info,
.table > tfoot > tr > td.info,
.table > thead > tr > th.info,
.table > tbody > tr > th.info,
.table > tfoot > tr > th.info,
.table > thead > tr.info > td,
.table > tbody > tr.info > td,
.table > tfoot > tr.info > td,
```

```
.table > thead > tr.info > th,
.table > tbody > tr.info > th,
.table > tfoot > tr.info > th {
  background-color: #d9edf7;
}
.table-hover > tbody > tr > td.info:hover,
.table-hover > tbody > tr > th.info:hover,
.table-hover > tbody > tr.info:hover > td,
.table-hover > tbody > tr:hover > .info,
.table-hover > tbody > tr.info:hover > th {
  background-color: #c4e3f3;
}
.table > thead > tr > td.warning,
.table > tbody > tr > td.warning,
.table > tfoot > tr > td.warning,
.table > thead > tr > th.warning,
.table > tbody > tr > th.warning,
.table > tfoot > tr > th.warning,
.table > thead > tr.warning > td,
.table > tbody > tr.warning > td,
.table > tfoot > tr.warning > td,
.table > thead > tr.warning > th,
.table > tbody > tr.warning > th,
.table > tfoot > tr.warning > th {
  background-color: #fcf8e3;
}
.table-hover > tbody > tr > td.warning:hover,
.table-hover > tbody > tr > th.warning:hover,
.table-hover > tbody > tr.warning:hover > td,
.table-hover > tbody > tr:hover > .warning,
.table-hover > tbody > tr.warning:hover > th {
  background-color: #faf2cc;
}
.table > thead > tr > td.danger,
.table > tbody > tr > td.danger,
.table > tfoot > tr > td.danger,
.table > thead > tr > th.danger,
.table > tbody > tr > th.danger,
.table > tfoot > tr > th.danger,
.table > thead > tr.danger > td,
.table > tbody > tr.danger > td,
.table > tfoot > tr.danger > td,
.table > thead > tr.danger > th,
.table > tbody > tr.danger > th,
.table > tfoot > tr.danger > th {
  background-color: #f2dede;
}
.table-hover > tbody > tr > td.danger:hover,
.table-hover > tbody > tr > th.danger:hover,
.table-hover > tbody > tr.danger:hover > td,
.table-hover > tbody > tr:hover > .danger,
.table-hover > tbody > tr.danger:hover > th {
  background-color: #ebcccc;
}
.table-responsive {
  overflow-x: auto;
  min-height: 0.01%;
}
@media screen and (max-width: 767px) {
  .table-responsive {
    width: 100%;
    margin-bottom: 13.5px;
    overflow-y: hidden;
    -ms-overflow-style: -ms-autohiding-scrollbar;
    border: 1px solid #ddd;
```

```
    }
    .table-responsive > .table {
      margin-bottom: 0;
    }
    .table-responsive > .table > thead > tr > th,
    .table-responsive > .table > tbody > tr > th,
    .table-responsive > .table > tfoot > tr > th,
    .table-responsive > .table > thead > tr > td,
    .table-responsive > .table > tbody > tr > td,
    .table-responsive > .table > tfoot > tr > td {
      white-space: nowrap;
    }
    .table-responsive > .table-bordered {
      border: 0;
    }
    .table-responsive > .table-bordered > thead > tr > th:first-child,
    .table-responsive > .table-bordered > tbody > tr > th:first-child,
    .table-responsive > .table-bordered > tfoot > tr > th:first-child,
    .table-responsive > .table-bordered > thead > tr > td:first-child,
    .table-responsive > .table-bordered > tbody > tr > td:first-child,
    .table-responsive > .table-bordered > tfoot > tr > td:first-child {
      border-left: 0;
    }
    .table-responsive > .table-bordered > thead > tr > th:last-child,
    .table-responsive > .table-bordered > tbody > tr > th:last-child,
    .table-responsive > .table-bordered > tfoot > tr > th:last-child,
    .table-responsive > .table-bordered > thead > tr > td:last-child,
    .table-responsive > .table-bordered > tbody > tr > td:last-child,
    .table-responsive > .table-bordered > tfoot > tr > td:last-child {
      border-right: 0;
    }
    .table-responsive > .table-bordered > tbody > tr:last-child > th,
    .table-responsive > .table-bordered > tfoot > tr:last-child > th,
    .table-responsive > .table-bordered > tbody > tr:last-child > td,
    .table-responsive > .table-bordered > tfoot > tr:last-child > td {
      border-bottom: 0;
    }
  }
  fieldset {
    padding: 0;
    margin: 0;
    border: 0;
    min-width: 0;
  }
  legend {
    display: block;
    width: 100%;
    padding: 0;
    margin-bottom: 18px;
    font-size: 19.5px;
    line-height: inherit;
    color: #333333;
    border: 0;
    border-bottom: 1px solid #e5e5e5;
  }
  label {
    display: inline-block;
    max-width: 100%;
    margin-bottom: 5px;
    font-weight: bold;
  }
  input[type="search"] {
    -webkit-box-sizing: border-box;
    -moz-box-sizing: border-box;
    box-sizing: border-box;
```

```
}
input[type="radio"],
input[type="checkbox"] {
  margin: 4px 0 0;
  margin-top: 1px \9;
  line-height: normal;
}
input[type="file"] {
  display: block;
}
input[type="range"] {
  display: block;
  width: 100%;
}
select[multiple],
select[size] {
  height: auto;
}
input[type="file"]:focus,
input[type="radio"]:focus,
input[type="checkbox"]:focus {
  outline: 5px auto -webkit-focus-ring-color;
  outline-offset: -2px;
}
output {
  display: block;
  padding-top: 7px;
  font-size: 13px;
  line-height: 1.42857143;
  color: #555555;
}
.form-control {
  display: block;
  width: 100%;
  height: 32px;
  padding: 6px 12px;
  font-size: 13px;
  line-height: 1.42857143;
  color: #555555;
  background-color: #fff;
  background-image: none;
  border: 1px solid #ccc;
  border-radius: 2px;
  -webkit-box-shadow: inset 0 1px 1px rgba(0, 0, 0, 0.075);
  box-shadow: inset 0 1px 1px rgba(0, 0, 0, 0.075);
  -webkit-transition: border-color ease-in-out .15s, box-shadow ease-in-out .15s;
  -o-transition: border-color ease-in-out .15s, box-shadow ease-in-out .15s;
  transition: border-color ease-in-out .15s, box-shadow ease-in-out .15s;
}
.form-control:focus {
  border-color: #66afe9;
  outline: 0;
  -webkit-box-shadow: inset 0 1px 1px rgba(0,0,0,.075), 0 0 8px rgba(102, 175, 233, 0.6);
  box-shadow: inset 0 1px 1px rgba(0,0,0,.075), 0 0 8px rgba(102, 175, 233, 0.6);
}
.form-control::-moz-placeholder {
  color: #999;
  opacity: 1;
}
.form-control:-ms-input-placeholder {
  color: #999;
}
.form-control::-webkit-input-placeholder {
  color: #999;
}
```

```
.form-control::-ms-expand {
  border: 0;
  background-color: transparent;
}
.form-control[disabled],
.form-control[readonly],
fieldset[disabled] .form-control {
  background-color: #eeeeee;
  opacity: 1;
}
.form-control[disabled],
fieldset[disabled] .form-control {
  cursor: not-allowed;
}
textarea.form-control {
  height: auto;
}
input[type="search"] {
  -webkit-appearance: none;
}
@media screen and (-webkit-min-device-pixel-ratio: 0) {
  input[type="date"].form-control,
  input[type="time"].form-control,
  input[type="datetime-local"].form-control,
  input[type="month"].form-control {
    line-height: 32px;
  }
  input[type="date"].input-sm,
  input[type="time"].input-sm,
  input[type="datetime-local"].input-sm,
  input[type="month"].input-sm,
  .input-group-sm input[type="date"],
  .input-group-sm input[type="time"],
  .input-group-sm input[type="datetime-local"],
  .input-group-sm input[type="month"] {
    line-height: 30px;
  }
  input[type="date"].input-lg,
  input[type="time"].input-lg,
  input[type="datetime-local"].input-lg,
  input[type="month"].input-lg,
  .input-group-lg input[type="date"],
  .input-group-lg input[type="time"],
  .input-group-lg input[type="datetime-local"],
  .input-group-lg input[type="month"] {
    line-height: 45px;
  }
}
.form-group {
  margin-bottom: 15px;
}
.radio,
.checkbox {
  position: relative;
  display: block;
  margin-top: 10px;
  margin-bottom: 10px;
}
.radio label,
.checkbox label {
  min-height: 18px;
  padding-left: 20px;
  margin-bottom: 0;
  font-weight: normal;
  cursor: pointer;
```

```
}
.radio input[type="radio"],
.radio-inline input[type="radio"],
.checkbox input[type="checkbox"],
.checkbox-inline input[type="checkbox"] {
  position: absolute;
  margin-left: -20px;
  margin-top: 4px \9;
}
.radio + .radio,
.checkbox + .checkbox {
  margin-top: -5px;
}
.radio-inline,
.checkbox-inline {
  position: relative;
  display: inline-block;
  padding-left: 20px;
  margin-bottom: 0;
  vertical-align: middle;
  font-weight: normal;
  cursor: pointer;
}
.radio-inline + .radio-inline,
.checkbox-inline + .checkbox-inline {
  margin-top: 0;
  margin-left: 10px;
}
input[type="radio"][disabled],
input[type="checkbox"][disabled],
input[type="radio"].disabled,
input[type="checkbox"].disabled,
fieldset[disabled] input[type="radio"],
fieldset[disabled] input[type="checkbox"] {
  cursor: not-allowed;
}
.radio-inline.disabled,
.checkbox-inline.disabled,
fieldset[disabled] .radio-inline,
fieldset[disabled] .checkbox-inline {
  cursor: not-allowed;
}
.radio.disabled label,
.checkbox.disabled label,
fieldset[disabled] .radio label,
fieldset[disabled] .checkbox label {
  cursor: not-allowed;
}
.form-control-static {
  padding-top: 7px;
  padding-bottom: 7px;
  margin-bottom: 0;
  min-height: 31px;
}
.form-control-static.input-lg,
.form-control-static.input-sm {
  padding-left: 0;
  padding-right: 0;
}
.input-sm {
  height: 30px;
  padding: 5px 10px;
  font-size: 12px;
  line-height: 1.5;
  border-radius: 1px;
```

```
}
select.input-sm {
  height: 30px;
  line-height: 30px;
}
textarea.input-sm,
select[multiple].input-sm {
  height: auto;
}
.form-group-sm .form-control {
  height: 30px;
  padding: 5px 10px;
  font-size: 12px;
  line-height: 1.5;
  border-radius: 1px;
}
.form-group-sm select.form-control {
  height: 30px;
  line-height: 30px;
}
.form-group-sm textarea.form-control,
.form-group-sm select[multiple].form-control {
  height: auto;
}
.form-group-sm .form-control-static {
  height: 30px;
  min-height: 30px;
  padding: 6px 10px;
  font-size: 12px;
  line-height: 1.5;
}
.input-lg {
  height: 45px;
  padding: 10px 16px;
  font-size: 17px;
  line-height: 1.3333333;
  border-radius: 3px;
}
select.input-lg {
  height: 45px;
  line-height: 45px;
}
textarea.input-lg,
select[multiple].input-lg {
  height: auto;
}
.form-group-lg .form-control {
  height: 45px;
  padding: 10px 16px;
  font-size: 17px;
  line-height: 1.3333333;
  border-radius: 3px;
}
.form-group-lg select.form-control {
  height: 45px;
  line-height: 45px;
}
.form-group-lg textarea.form-control,
.form-group-lg select[multiple].form-control {
  height: auto;
}
.form-group-lg .form-control-static {
  height: 45px;
  min-height: 35px;
  padding: 11px 16px;
```

```
  font-size: 17px;
  line-height: 1.3333333;
}
.has-feedback {
  position: relative;
}
.has-feedback .form-control {
  padding-right: 40px;
}
.form-control-feedback {
  position: absolute;
  top: 0;
  right: 0;
  z-index: 2;
  display: block;
  width: 32px;
  height: 32px;
  line-height: 32px;
  text-align: center;
  pointer-events: none;
}
.input-lg + .form-control-feedback,
.input-group-lg + .form-control-feedback,
.form-group-lg .form-control + .form-control-feedback {
  width: 45px;
  height: 45px;
  line-height: 45px;
}
.input-sm + .form-control-feedback,
.input-group-sm + .form-control-feedback,
.form-group-sm .form-control + .form-control-feedback {
  width: 30px;
  height: 30px;
  line-height: 30px;
}
.has-success .help-block,
.has-success .control-label,
.has-success .radio,
.has-success .checkbox,
.has-success .radio-inline,
.has-success .checkbox-inline,
.has-success.radio label,
.has-success.checkbox label,
.has-success.radio-inline label,
.has-success.checkbox-inline label {
  color: #3c763d;
}
.has-success .form-control {
  border-color: #3c763d;
  -webkit-box-shadow: inset 0 1px 1px rgba(0, 0, 0, 0.075);
  box-shadow: inset 0 1px 1px rgba(0, 0, 0, 0.075);
}
.has-success .form-control:focus {
  border-color: #2b542c;
  -webkit-box-shadow: inset 0 1px 1px rgba(0, 0, 0, 0.075), 0 0 6px #67b168;
  box-shadow: inset 0 1px 1px rgba(0, 0, 0, 0.075), 0 0 6px #67b168;
}
.has-success .input-group-addon {
  color: #3c763d;
  border-color: #3c763d;
  background-color: #dff0d8;
}
.has-success .form-control-feedback {
  color: #3c763d;
}
```

```
.has-warning .help-block,
.has-warning .control-label,
.has-warning .radio,
.has-warning .checkbox,
.has-warning .radio-inline,
.has-warning .checkbox-inline,
.has-warning.radio label,
.has-warning.checkbox label,
.has-warning.radio-inline label,
.has-warning.checkbox-inline label {
  color: #8a6d3b;
}
.has-warning .form-control {
  border-color: #8a6d3b;
  -webkit-box-shadow: inset 0 1px 1px rgba(0, 0, 0, 0.075);
  box-shadow: inset 0 1px 1px rgba(0, 0, 0, 0.075);
}
.has-warning .form-control:focus {
  border-color: #66512c;
  -webkit-box-shadow: inset 0 1px 1px rgba(0, 0, 0, 0.075), 0 0 6px #c0a16b;
  box-shadow: inset 0 1px 1px rgba(0, 0, 0, 0.075), 0 0 6px #c0a16b;
}
.has-warning .input-group-addon {
  color: #8a6d3b;
  border-color: #8a6d3b;
  background-color: #fcf8e3;
}
.has-warning .form-control-feedback {
  color: #8a6d3b;
}
.has-error .help-block,
.has-error .control-label,
.has-error .radio,
.has-error .checkbox,
.has-error .radio-inline,
.has-error .checkbox-inline,
.has-error.radio label,
.has-error.checkbox label,
.has-error.radio-inline label,
.has-error.checkbox-inline label {
  color: #a94442;
}
.has-error .form-control {
  border-color: #a94442;
  -webkit-box-shadow: inset 0 1px 1px rgba(0, 0, 0, 0.075);
  box-shadow: inset 0 1px 1px rgba(0, 0, 0, 0.075);
}
.has-error .form-control:focus {
  border-color: #843534;
  -webkit-box-shadow: inset 0 1px 1px rgba(0, 0, 0, 0.075), 0 0 6px #ce8483;
  box-shadow: inset 0 1px 1px rgba(0, 0, 0, 0.075), 0 0 6px #ce8483;
}
.has-error .input-group-addon {
  color: #a94442;
  border-color: #a94442;
  background-color: #f2dede;
}
.has-error .form-control-feedback {
  color: #a94442;
}
.has-feedback label ~ .form-control-feedback {
  top: 23px;
}
.has-feedback label.sr-only ~ .form-control-feedback {
  top: 0;
```

```
}
.help-block {
  display: block;
  margin-top: 5px;
  margin-bottom: 10px;
  color: #404040;
}
@media (min-width: 768px) {
  .form-inline .form-group {
    display: inline-block;
    margin-bottom: 0;
    vertical-align: middle;
  }
  .form-inline .form-control {
    display: inline-block;
    width: auto;
    vertical-align: middle;
  }
  .form-inline .form-control-static {
    display: inline-block;
  }
  .form-inline .input-group {
    display: inline-table;
    vertical-align: middle;
  }
  .form-inline .input-group .input-group-addon,
  .form-inline .input-group .input-group-btn,
  .form-inline .input-group .form-control {
    width: auto;
  }
  .form-inline .input-group > .form-control {
    width: 100%;
  }
  .form-inline .control-label {
    margin-bottom: 0;
    vertical-align: middle;
  }
  .form-inline .radio,
  .form-inline .checkbox {
    display: inline-block;
    margin-top: 0;
    margin-bottom: 0;
    vertical-align: middle;
  }
  .form-inline .radio label,
  .form-inline .checkbox label {
    padding-left: 0;
  }
  .form-inline .radio input[type="radio"],
  .form-inline .checkbox input[type="checkbox"] {
    position: relative;
    margin-left: 0;
  }
  .form-inline .has-feedback .form-control-feedback {
    top: 0;
  }
}
.form-horizontal .radio,
.form-horizontal .checkbox,
.form-horizontal .radio-inline,
.form-horizontal .checkbox-inline {
  margin-top: 0;
  margin-bottom: 0;
  padding-top: 7px;
}
```

```
.form-horizontal .radio,
.form-horizontal .checkbox {
  min-height: 25px;
}
.form-horizontal .form-group {
  margin-left: 0px;
  margin-right: 0px;
}
@media (min-width: 768px) {
  .form-horizontal .control-label {
    text-align: right;
    margin-bottom: 0;
    padding-top: 7px;
  }
}
.form-horizontal .has-feedback .form-control-feedback {
  right: 0px;
}
@media (min-width: 768px) {
  .form-horizontal .form-group-lg .control-label {
    padding-top: 11px;
    font-size: 17px;
  }
}
@media (min-width: 768px) {
  .form-horizontal .form-group-sm .control-label {
    padding-top: 6px;
    font-size: 12px;
  }
}
.btn {
  display: inline-block;
  margin-bottom: 0;
  font-weight: normal;
  text-align: center;
  vertical-align: middle;
  touch-action: manipulation;
  cursor: pointer;
  background-image: none;
  border: 1px solid transparent;
  white-space: nowrap;
  padding: 6px 12px;
  font-size: 13px;
  line-height: 1.42857143;
  border-radius: 2px;
  -webkit-user-select: none;
  -moz-user-select: none;
  -ms-user-select: none;
  user-select: none;
}
.btn:focus,
.btn:active:focus,
.btn.active:focus,
.btn.focus,
.btn:active.focus,
.btn.active.focus {
  outline: 5px auto -webkit-focus-ring-color;
  outline-offset: -2px;
}
.btn:hover,
.btn:focus,
.btn.focus {
  color: #333;
  text-decoration: none;
}
```

```
.btn:active,
.btn.active {
  outline: 0;
  background-image: none;
  -webkit-box-shadow: inset 0 3px 5px rgba(0, 0, 0, 0.125);
  box-shadow: inset 0 3px 5px rgba(0, 0, 0, 0.125);
}
.btn.disabled,
.btn[disabled],
fieldset[disabled] .btn {
  cursor: not-allowed;
  opacity: 0.65;
  filter: alpha(opacity=65);
  -webkit-box-shadow: none;
  box-shadow: none;
}
a.btn.disabled,
fieldset[disabled] a.btn {
  pointer-events: none;
}
.btn-default {
  color: #333;
  background-color: #fff;
  border-color: #ccc;
}
.btn-default:focus,
.btn-default.focus {
  color: #333;
  background-color: #e6e6e6;
  border-color: #8c8c8c;
}
.btn-default:hover {
  color: #333;
  background-color: #e6e6e6;
  border-color: #adadad;
}
.btn-default:active,
.btn-default.active,
.open > .dropdown-toggle.btn-default {
  color: #333;
  background-color: #e6e6e6;
  border-color: #adadad;
}
.btn-default:active:hover,
.btn-default.active:hover,
.open > .dropdown-toggle.btn-default:hover,
.btn-default:active:focus,
.btn-default.active:focus,
.open > .dropdown-toggle.btn-default:focus,
.btn-default:active.focus,
.btn-default.active.focus,
.open > .dropdown-toggle.btn-default.focus {
  color: #333;
  background-color: #d4d4d4;
  border-color: #8c8c8c;
}
.btn-default:active,
.btn-default.active,
.open > .dropdown-toggle.btn-default {
  background-image: none;
}
.btn-default.disabled:hover,
.btn-default[disabled]:hover,
fieldset[disabled] .btn-default:hover,
.btn-default.disabled:focus,
```

```
.btn-default[disabled]:focus,
fieldset[disabled] .btn-default:focus,
.btn-default.disabled.focus,
.btn-default[disabled].focus,
fieldset[disabled] .btn-default.focus {
  background-color: #fff;
  border-color: #ccc;
}
.btn-default .badge {
  color: #fff;
  background-color: #333;
}
.btn-primary {
  color: #fff;
  background-color: #337ab7;
  border-color: #2e6da4;
}
.btn-primary:focus,
.btn-primary.focus {
  color: #fff;
  background-color: #286090;
  border-color: #122b40;
}
.btn-primary:hover {
  color: #fff;
  background-color: #286090;
  border-color: #204d74;
}
.btn-primary:active,
.btn-primary.active,
.open > .dropdown-toggle.btn-primary {
  color: #fff;
  background-color: #286090;
  border-color: #204d74;
}
.btn-primary:active:hover,
.btn-primary.active:hover,
.open > .dropdown-toggle.btn-primary:hover,
.btn-primary:active:focus,
.btn-primary.active:focus,
.open > .dropdown-toggle.btn-primary:focus,
.btn-primary:active.focus,
.btn-primary.active.focus,
.open > .dropdown-toggle.btn-primary.focus {
  color: #fff;
  background-color: #204d74;
  border-color: #122b40;
}
.btn-primary:active,
.btn-primary.active,
.open > .dropdown-toggle.btn-primary {
  background-image: none;
}
.btn-primary.disabled:hover,
.btn-primary[disabled]:hover,
fieldset[disabled] .btn-primary:hover,
.btn-primary.disabled:focus,
.btn-primary[disabled]:focus,
fieldset[disabled] .btn-primary:focus,
.btn-primary.disabled.focus,
.btn-primary[disabled].focus,
fieldset[disabled] .btn-primary.focus {
  background-color: #337ab7;
  border-color: #2e6da4;
}
```

```
.btn-primary .badge {
  color: #337ab7;
  background-color: #fff;
}
.btn-success {
  color: #fff;
  background-color: #5cb85c;
  border-color: #4cae4c;
}
.btn-success:focus,
.btn-success.focus {
  color: #fff;
  background-color: #449d44;
  border-color: #255625;
}
.btn-success:hover {
  color: #fff;
  background-color: #449d44;
  border-color: #398439;
}
.btn-success:active,
.btn-success.active,
.open > .dropdown-toggle.btn-success {
  color: #fff;
  background-color: #449d44;
  border-color: #398439;
}
.btn-success:active:hover,
.btn-success.active:hover,
.open > .dropdown-toggle.btn-success:hover,
.btn-success:active:focus,
.btn-success.active:focus,
.open > .dropdown-toggle.btn-success:focus,
.btn-success:active.focus,
.btn-success.active.focus,
.open > .dropdown-toggle.btn-success.focus {
  color: #fff;
  background-color: #398439;
  border-color: #255625;
}
.btn-success:active,
.btn-success.active,
.open > .dropdown-toggle.btn-success {
  background-image: none;
}
.btn-success.disabled:hover,
.btn-success[disabled]:hover,
fieldset[disabled] .btn-success:hover,
.btn-success.disabled:focus,
.btn-success[disabled]:focus,
fieldset[disabled] .btn-success:focus,
.btn-success.disabled.focus,
.btn-success[disabled].focus,
fieldset[disabled] .btn-success.focus {
  background-color: #5cb85c;
  border-color: #4cae4c;
}
.btn-success .badge {
  color: #5cb85c;
  background-color: #fff;
}
.btn-info {
  color: #fff;
  background-color: #5bc0de;
  border-color: #46b8da;
```

```
}
.btn-info:focus,
.btn-info.focus {
  color: #fff;
  background-color: #31b0d5;
  border-color: #1b6d85;
}
.btn-info:hover {
  color: #fff;
  background-color: #31b0d5;
  border-color: #269abc;
}
.btn-info:active,
.btn-info.active,
.open > .dropdown-toggle.btn-info {
  color: #fff;
  background-color: #31b0d5;
  border-color: #269abc;
}
.btn-info:active:hover,
.btn-info.active:hover,
.open > .dropdown-toggle.btn-info:hover,
.btn-info:active:focus,
.btn-info.active:focus,
.open > .dropdown-toggle.btn-info:focus,
.btn-info:active.focus,
.btn-info.active.focus,
.open > .dropdown-toggle.btn-info.focus {
  color: #fff;
  background-color: #269abc;
  border-color: #1b6d85;
}
.btn-info:active,
.btn-info.active,
.open > .dropdown-toggle.btn-info {
  background-image: none;
}
.btn-info.disabled:hover,
.btn-info[disabled]:hover,
fieldset[disabled] .btn-info:hover,
.btn-info.disabled:focus,
.btn-info[disabled]:focus,
fieldset[disabled] .btn-info:focus,
.btn-info.disabled.focus,
.btn-info[disabled].focus,
fieldset[disabled] .btn-info.focus {
  background-color: #5bc0de;
  border-color: #46b8da;
}
.btn-info .badge {
  color: #5bc0de;
  background-color: #fff;
}
.btn-warning {
  color: #fff;
  background-color: #f0ad4e;
  border-color: #eea236;
}
.btn-warning:focus,
.btn-warning.focus {
  color: #fff;
  background-color: #ec971f;
  border-color: #985f0d;
}
.btn-warning:hover {
```

```
    color: #fff;
    background-color: #ec971f;
    border-color: #d58512;
  }
  .btn-warning:active,
  .btn-warning.active,
  .open > .dropdown-toggle.btn-warning {
    color: #fff;
    background-color: #ec971f;
    border-color: #d58512;
  }
  .btn-warning:active:hover,
  .btn-warning.active:hover,
  .open > .dropdown-toggle.btn-warning:hover,
  .btn-warning:active:focus,
  .btn-warning.active:focus,
  .open > .dropdown-toggle.btn-warning:focus,
  .btn-warning:active.focus,
  .btn-warning.active.focus,
  .open > .dropdown-toggle.btn-warning.focus {
    color: #fff;
    background-color: #d58512;
    border-color: #985f0d;
  }
  .btn-warning:active,
  .btn-warning.active,
  .open > .dropdown-toggle.btn-warning {
    background-image: none;
  }
  .btn-warning.disabled:hover,
  .btn-warning[disabled]:hover,
  fieldset[disabled] .btn-warning:hover,
  .btn-warning.disabled:focus,
  .btn-warning[disabled]:focus,
  fieldset[disabled] .btn-warning:focus,
  .btn-warning.disabled.focus,
  .btn-warning[disabled].focus,
  fieldset[disabled] .btn-warning.focus {
    background-color: #f0ad4e;
    border-color: #eea236;
  }
  .btn-warning .badge {
    color: #f0ad4e;
    background-color: #fff;
  }
  .btn-danger {
    color: #fff;
    background-color: #d9534f;
    border-color: #d43f3a;
  }
  .btn-danger:focus,
  .btn-danger.focus {
    color: #fff;
    background-color: #c9302c;
    border-color: #761c19;
  }
  .btn-danger:hover {
    color: #fff;
    background-color: #c9302c;
    border-color: #ac2925;
  }
  .btn-danger:active,
  .btn-danger.active,
  .open > .dropdown-toggle.btn-danger {
    color: #fff;
```

```
    background-color: #c9302c;
    border-color: #ac2925;
  }
  .btn-danger:active:hover,
  .btn-danger.active:hover,
  .open > .dropdown-toggle.btn-danger:hover,
  .btn-danger:active:focus,
  .btn-danger.active:focus,
  .open > .dropdown-toggle.btn-danger:focus,
  .btn-danger:active.focus,
  .btn-danger.active.focus,
  .open > .dropdown-toggle.btn-danger.focus {
    color: #fff;
    background-color: #ac2925;
    border-color: #761c19;
  }
  .btn-danger:active,
  .btn-danger.active,
  .open > .dropdown-toggle.btn-danger {
    background-image: none;
  }
  .btn-danger.disabled:hover,
  .btn-danger[disabled]:hover,
  fieldset[disabled] .btn-danger:hover,
  .btn-danger.disabled:focus,
  .btn-danger[disabled]:focus,
  fieldset[disabled] .btn-danger:focus,
  .btn-danger.disabled.focus,
  .btn-danger[disabled].focus,
  fieldset[disabled] .btn-danger.focus {
    background-color: #d9534f;
    border-color: #d43f3a;
  }
  .btn-danger .badge {
    color: #d9534f;
    background-color: #fff;
  }
  .btn-link {
    color: #337ab7;
    font-weight: normal;
    border-radius: 0;
  }
  .btn-link,
  .btn-link:active,
  .btn-link.active,
  .btn-link[disabled],
  fieldset[disabled] .btn-link {
    background-color: transparent;
    -webkit-box-shadow: none;
    box-shadow: none;
  }
  .btn-link,
  .btn-link:hover,
  .btn-link:focus,
  .btn-link:active {
    border-color: transparent;
  }
  .btn-link:hover,
  .btn-link:focus {
    color: #23527c;
    text-decoration: underline;
    background-color: transparent;
  }
  .btn-link[disabled]:hover,
  fieldset[disabled] .btn-link:hover,
```

```
.btn-link[disabled]:focus,
fieldset[disabled] .btn-link:focus {
  color: #777777;
  text-decoration: none;
}
.btn-lg,
.btn-group-lg > .btn {
  padding: 10px 16px;
  font-size: 17px;
  line-height: 1.3333333;
  border-radius: 3px;
}
.btn-sm,
.btn-group-sm > .btn {
  padding: 5px 10px;
  font-size: 12px;
  line-height: 1.5;
  border-radius: 1px;
}
.btn-xs,
.btn-group-xs > .btn {
  padding: 1px 5px;
  font-size: 12px;
  line-height: 1.5;
  border-radius: 1px;
}
.btn-block {
  display: block;
  width: 100%;
}
.btn-block + .btn-block {
  margin-top: 5px;
}
input[type="submit"].btn-block,
input[type="reset"].btn-block,
input[type="button"].btn-block {
  width: 100%;
}
.fade {
  opacity: 0;
  -webkit-transition: opacity 0.15s linear;
  -o-transition: opacity 0.15s linear;
  transition: opacity 0.15s linear;
}
.fade.in {
  opacity: 1;
}
.collapse {
  display: none;
}
.collapse.in {
  display: block;
}
tr.collapse.in {
  display: table-row;
}
tbody.collapse.in {
  display: table-row-group;
}
.collapsing {
  position: relative;
  height: 0;
  overflow: hidden;
  -webkit-transition-property: height, visibility;
  transition-property: height, visibility;
```

```
    -webkit-transition-duration: 0.35s;
    transition-duration: 0.35s;
    -webkit-transition-timing-function: ease;
    transition-timing-function: ease;
  }
  .caret {
    display: inline-block;
    width: 0;
    height: 0;
    margin-left: 2px;
    vertical-align: middle;
    border-top: 4px dashed;
    border-top: 4px solid \9;
    border-right: 4px solid transparent;
    border-left: 4px solid transparent;
  }
  .dropup,
  .dropdown {
    position: relative;
  }
  .dropdown-toggle:focus {
    outline: 0;
  }
  .dropdown-menu {
    position: absolute;
    top: 100%;
    left: 0;
    z-index: 1000;
    display: none;
    float: left;
    min-width: 160px;
    padding: 5px 0;
    margin: 2px 0 0;
    list-style: none;
    font-size: 13px;
    text-align: left;
    background-color: #fff;
    border: 1px solid #ccc;
    border: 1px solid rgba(0, 0, 0, 0.15);
    border-radius: 2px;
    -webkit-box-shadow: 0 6px 12px rgba(0, 0, 0, 0.175);
    box-shadow: 0 6px 12px rgba(0, 0, 0, 0.175);
    background-clip: padding-box;
  }
  .dropdown-menu.pull-right {
    right: 0;
    left: auto;
  }
  .dropdown-menu .divider {
    height: 1px;
    margin: 8px 0;
    overflow: hidden;
    background-color: #e5e5e5;
  }
  .dropdown-menu > li > a {
    display: block;
    padding: 3px 20px;
    clear: both;
    font-weight: normal;
    line-height: 1.42857143;
    color: #333333;
    white-space: nowrap;
  }
  .dropdown-menu > li > a:hover,
  .dropdown-menu > li > a:focus {
```

```
    text-decoration: none;
    color: #262626;
    background-color: #f5f5f5;
  }
  .dropdown-menu > .active > a,
  .dropdown-menu > .active > a:hover,
  .dropdown-menu > .active > a:focus {
    color: #fff;
    text-decoration: none;
    outline: 0;
    background-color: #337ab7;
  }
  .dropdown-menu > .disabled > a,
  .dropdown-menu > .disabled > a:hover,
  .dropdown-menu > .disabled > a:focus {
    color: #777777;
  }
  .dropdown-menu > .disabled > a:hover,
  .dropdown-menu > .disabled > a:focus {
    text-decoration: none;
    background-color: transparent;
    background-image: none;
    filter: progid:DXImageTransform.Microsoft.gradient(enabled = false);
    cursor: not-allowed;
  }
  .open > .dropdown-menu {
    display: block;
  }
  .open > a {
    outline: 0;
  }
  .dropdown-menu-right {
    left: auto;
    right: 0;
  }
  .dropdown-menu-left {
    left: 0;
    right: auto;
  }
  .dropdown-header {
    display: block;
    padding: 3px 20px;
    font-size: 12px;
    line-height: 1.42857143;
    color: #777777;
    white-space: nowrap;
  }
  .dropdown-backdrop {
    position: fixed;
    left: 0;
    right: 0;
    bottom: 0;
    top: 0;
    z-index: 990;
  }
  .pull-right > .dropdown-menu {
    right: 0;
    left: auto;
  }
  .dropup .caret,
  .navbar-fixed-bottom .dropdown .caret {
    border-top: 0;
    border-bottom: 4px dashed;
    border-bottom: 4px solid \9;
    content: "";
```

```
}
.dropup .dropdown-menu,
.navbar-fixed-bottom .dropdown .dropdown-menu {
  top: auto;
  bottom: 100%;
  margin-bottom: 2px;
}
@media (min-width: 541px) {
  .navbar-right .dropdown-menu {
    left: auto;
    right: 0;
  }
  .navbar-right .dropdown-menu-left {
    left: 0;
    right: auto;
  }
}
.btn-group,
.btn-group-vertical {
  position: relative;
  display: inline-block;
  vertical-align: middle;
}
.btn-group > .btn,
.btn-group-vertical > .btn {
  position: relative;
  float: left;
}
.btn-group > .btn:hover,
.btn-group-vertical > .btn:hover,
.btn-group > .btn:focus,
.btn-group-vertical > .btn:focus,
.btn-group > .btn:active,
.btn-group-vertical > .btn:active,
.btn-group > .btn.active,
.btn-group-vertical > .btn.active {
  z-index: 2;
}
.btn-group .btn + .btn,
.btn-group .btn + .btn-group,
.btn-group .btn-group + .btn,
.btn-group .btn-group + .btn-group {
  margin-left: -1px;
}
.btn-toolbar {
  margin-left: -5px;
}
.btn-toolbar .btn,
.btn-toolbar .btn-group,
.btn-toolbar .input-group {
  float: left;
}
.btn-toolbar > .btn,
.btn-toolbar > .btn-group,
.btn-toolbar > .input-group {
  margin-left: 5px;
}
.btn-group > .btn:not(:first-child):not(:last-child):not(.dropdown-toggle) {
  border-radius: 0;
}
.btn-group > .btn:first-child {
  margin-left: 0;
}
.btn-group > .btn:first-child:not(:last-child):not(.dropdown-toggle) {
  border-bottom-right-radius: 0;
```

```
    border-top-right-radius: 0;
  }
  .btn-group > .btn:last-child:not(:first-child),
  .btn-group > .dropdown-toggle:not(:first-child) {
    border-bottom-left-radius: 0;
    border-top-left-radius: 0;
  }
  .btn-group > .btn-group {
    float: left;
  }
  .btn-group > .btn-group:not(:first-child):not(:last-child) > .btn {
    border-radius: 0;
  }
  .btn-group > .btn-group:first-child:not(:last-child) > .btn:last-child,
  .btn-group > .btn-group:first-child:not(:last-child) > .dropdown-toggle {
    border-bottom-right-radius: 0;
    border-top-right-radius: 0;
  }
  .btn-group > .btn-group:last-child:not(:first-child) > .btn:first-child {
    border-bottom-left-radius: 0;
    border-top-left-radius: 0;
  }
  .btn-group .dropdown-toggle:active,
  .btn-group.open .dropdown-toggle {
    outline: 0;
  }
  .btn-group > .btn + .dropdown-toggle {
    padding-left: 8px;
    padding-right: 8px;
  }
  .btn-group > .btn-lg + .dropdown-toggle {
    padding-left: 12px;
    padding-right: 12px;
  }
  .btn-group.open .dropdown-toggle {
    -webkit-box-shadow: inset 0 3px 5px rgba(0, 0, 0, 0.125);
    box-shadow: inset 0 3px 5px rgba(0, 0, 0, 0.125);
  }
  .btn-group.open .dropdown-toggle.btn-link {
    -webkit-box-shadow: none;
    box-shadow: none;
  }
  .btn .caret {
    margin-left: 0;
  }
  .btn-lg .caret {
    border-width: 5px 5px 0;
    border-bottom-width: 0;
  }
  .dropup .btn-lg .caret {
    border-width: 0 5px 5px;
  }
  .btn-group-vertical > .btn,
  .btn-group-vertical > .btn-group,
  .btn-group-vertical > .btn-group > .btn {
    display: block;
    float: none;
    width: 100%;
    max-width: 100%;
  }
  .btn-group-vertical > .btn-group > .btn {
    float: none;
  }
  .btn-group-vertical > .btn + .btn,
  .btn-group-vertical > .btn + .btn-group,
```

```
.btn-group-vertical > .btn-group + .btn,
.btn-group-vertical > .btn-group + .btn-group {
  margin-top: -1px;
  margin-left: 0;
}
.btn-group-vertical > .btn:not(:first-child):not(:last-child) {
  border-radius: 0;
}
.btn-group-vertical > .btn:first-child:not(:last-child) {
  border-top-right-radius: 2px;
  border-top-left-radius: 2px;
  border-bottom-right-radius: 0;
  border-bottom-left-radius: 0;
}
.btn-group-vertical > .btn:last-child:not(:first-child) {
  border-top-right-radius: 0;
  border-top-left-radius: 0;
  border-bottom-right-radius: 2px;
  border-bottom-left-radius: 2px;
}
.btn-group-vertical > .btn-group:not(:first-child):not(:last-child) > .btn {
  border-radius: 0;
}
.btn-group-vertical > .btn-group:first-child:not(:last-child) > .btn:last-child,
.btn-group-vertical > .btn-group:first-child:not(:last-child) > .dropdown-toggle {
  border-bottom-right-radius: 0;
  border-bottom-left-radius: 0;
}
.btn-group-vertical > .btn-group:last-child:not(:first-child) > .btn:first-child {
  border-top-right-radius: 0;
  border-top-left-radius: 0;
}
.btn-group-justified {
  display: table;
  width: 100%;
  table-layout: fixed;
  border-collapse: separate;
}
.btn-group-justified > .btn,
.btn-group-justified > .btn-group {
  float: none;
  display: table-cell;
  width: 1%;
}
.btn-group-justified > .btn-group .btn {
  width: 100%;
}
.btn-group-justified > .btn-group .dropdown-menu {
  left: auto;
}
[data-toggle="buttons"] > .btn input[type="radio"],
[data-toggle="buttons"] > .btn-group > .btn input[type="radio"],
[data-toggle="buttons"] > .btn input[type="checkbox"],
[data-toggle="buttons"] > .btn-group > .btn input[type="checkbox"] {
  position: absolute;
  clip: rect(0, 0, 0, 0);
  pointer-events: none;
}
.input-group {
  position: relative;
  display: table;
  border-collapse: separate;
}
.input-group[class*="col-"] {
  float: none;
```

```
    padding-left: 0;
    padding-right: 0;
  }
  .input-group .form-control {
    position: relative;
    z-index: 2;
    float: left;
    width: 100%;
    margin-bottom: 0;
  }
  .input-group .form-control:focus {
    z-index: 3;
  }
  .input-group-lg > .form-control,
  .input-group-lg > .input-group-addon,
  .input-group-lg > .input-group-btn > .btn {
    height: 45px;
    padding: 10px 16px;
    font-size: 17px;
    line-height: 1.3333333;
    border-radius: 3px;
  }
  select.input-group-lg > .form-control,
  select.input-group-lg > .input-group-addon,
  select.input-group-lg > .input-group-btn > .btn {
    height: 45px;
    line-height: 45px;
  }
  textarea.input-group-lg > .form-control,
  textarea.input-group-lg > .input-group-addon,
  textarea.input-group-lg > .input-group-btn > .btn,
  select[multiple].input-group-lg > .form-control,
  select[multiple].input-group-lg > .input-group-addon,
  select[multiple].input-group-lg > .input-group-btn > .btn {
    height: auto;
  }
  .input-group-sm > .form-control,
  .input-group-sm > .input-group-addon,
  .input-group-sm > .input-group-btn > .btn {
    height: 30px;
    padding: 5px 10px;
    font-size: 12px;
    line-height: 1.5;
    border-radius: 1px;
  }
  select.input-group-sm > .form-control,
  select.input-group-sm > .input-group-addon,
  select.input-group-sm > .input-group-btn > .btn {
    height: 30px;
    line-height: 30px;
  }
  textarea.input-group-sm > .form-control,
  textarea.input-group-sm > .input-group-addon,
  textarea.input-group-sm > .input-group-btn > .btn,
  select[multiple].input-group-sm > .form-control,
  select[multiple].input-group-sm > .input-group-addon,
  select[multiple].input-group-sm > .input-group-btn > .btn {
    height: auto;
  }
  .input-group-addon,
  .input-group-btn,
  .input-group .form-control {
    display: table-cell;
  }
  .input-group-addon:not(:first-child):not(:last-child),
```

```
.input-group-btn:not(:first-child):not(:last-child),
.input-group .form-control:not(:first-child):not(:last-child) {
  border-radius: 0;
}
.input-group-addon,
.input-group-btn {
  width: 1%;
  white-space: nowrap;
  vertical-align: middle;
}
.input-group-addon {
  padding: 6px 12px;
  font-size: 13px;
  font-weight: normal;
  line-height: 1;
  color: #555555;
  text-align: center;
  background-color: #eeeeee;
  border: 1px solid #ccc;
  border-radius: 2px;
}
.input-group-addon.input-sm {
  padding: 5px 10px;
  font-size: 12px;
  border-radius: 1px;
}
.input-group-addon.input-lg {
  padding: 10px 16px;
  font-size: 17px;
  border-radius: 3px;
}
.input-group-addon input[type="radio"],
.input-group-addon input[type="checkbox"] {
  margin-top: 0;
}
.input-group .form-control:first-child,
.input-group-addon:first-child,
.input-group-btn:first-child > .btn,
.input-group-btn:first-child > .btn-group > .btn,
.input-group-btn:first-child > .dropdown-toggle,
.input-group-btn:last-child > .btn:not(:last-child):not(.dropdown-toggle),
.input-group-btn:last-child > .btn-group:not(:last-child) > .btn {
  border-bottom-right-radius: 0;
  border-top-right-radius: 0;
}
.input-group-addon:first-child {
  border-right: 0;
}
.input-group .form-control:last-child,
.input-group-addon:last-child,
.input-group-btn:last-child > .btn,
.input-group-btn:last-child > .btn-group > .btn,
.input-group-btn:last-child > .dropdown-toggle,
.input-group-btn:first-child > .btn:not(:first-child),
.input-group-btn:first-child > .btn-group:not(:first-child) > .btn {
  border-bottom-left-radius: 0;
  border-top-left-radius: 0;
}
.input-group-addon:last-child {
  border-left: 0;
}
.input-group-btn {
  position: relative;
  font-size: 0;
  white-space: nowrap;
```

```
}
.input-group-btn > .btn {
  position: relative;
}
.input-group-btn > .btn + .btn {
  margin-left: -1px;
}
.input-group-btn > .btn:hover,
.input-group-btn > .btn:focus,
.input-group-btn > .btn:active {
  z-index: 2;
}
.input-group-btn:first-child > .btn,
.input-group-btn:first-child > .btn-group {
  margin-right: -1px;
}
.input-group-btn:last-child > .btn,
.input-group-btn:last-child > .btn-group {
  z-index: 2;
  margin-left: -1px;
}
.nav {
  margin-bottom: 0;
  padding-left: 0;
  list-style: none;
}
.nav > li {
  position: relative;
  display: block;
}
.nav > li > a {
  position: relative;
  display: block;
  padding: 10px 15px;
}
.nav > li > a:hover,
.nav > li > a:focus {
  text-decoration: none;
  background-color: #eeeeee;
}
.nav > li.disabled > a {
  color: #777777;
}
.nav > li.disabled > a:hover,
.nav > li.disabled > a:focus {
  color: #777777;
  text-decoration: none;
  background-color: transparent;
  cursor: not-allowed;
}
.nav .open > a,
.nav .open > a:hover,
.nav .open > a:focus {
  background-color: #eeeeee;
  border-color: #337ab7;
}
.nav .nav-divider {
  height: 1px;
  margin: 8px 0;
  overflow: hidden;
  background-color: #e5e5e5;
}
.nav > li > a > img {
  max-width: none;
}
```

```
.nav-tabs {
  border-bottom: 1px solid #ddd;
}
.nav-tabs > li {
  float: left;
  margin-bottom: -1px;
}
.nav-tabs > li > a {
  margin-right: 2px;
  line-height: 1.42857143;
  border: 1px solid transparent;
  border-radius: 2px 2px 0 0;
}
.nav-tabs > li > a:hover {
  border-color: #eeeeee #eeeeee #ddd;
}
.nav-tabs > li.active > a,
.nav-tabs > li.active > a:hover,
.nav-tabs > li.active > a:focus {
  color: #555555;
  background-color: #fff;
  border: 1px solid #ddd;
  border-bottom-color: transparent;
  cursor: default;
}
.nav-tabs.nav-justified {
  width: 100%;
  border-bottom: 0;
}
.nav-tabs.nav-justified > li {
  float: none;
}
.nav-tabs.nav-justified > li > a {
  text-align: center;
  margin-bottom: 5px;
}
.nav-tabs.nav-justified > .dropdown .dropdown-menu {
  top: auto;
  left: auto;
}
@media (min-width: 768px) {
  .nav-tabs.nav-justified > li {
    display: table-cell;
    width: 1%;
  }
  .nav-tabs.nav-justified > li > a {
    margin-bottom: 0;
  }
}
.nav-tabs.nav-justified > li > a {
  margin-right: 0;
  border-radius: 2px;
}
.nav-tabs.nav-justified > .active > a,
.nav-tabs.nav-justified > .active > a:hover,
.nav-tabs.nav-justified > .active > a:focus {
  border: 1px solid #ddd;
}
@media (min-width: 768px) {
  .nav-tabs.nav-justified > li > a {
    border-bottom: 1px solid #ddd;
    border-radius: 2px 2px 0 0;
  }
  .nav-tabs.nav-justified > .active > a,
  .nav-tabs.nav-justified > .active > a:hover,
```

```
    .nav-tabs.nav-justified > .active > a:focus {
      border-bottom-color: #fff;
    }
  }
  .nav-pills > li {
    float: left;
  }
  .nav-pills > li > a {
    border-radius: 2px;
  }
  .nav-pills > li + li {
    margin-left: 2px;
  }
  .nav-pills > li.active > a,
  .nav-pills > li.active > a:hover,
  .nav-pills > li.active > a:focus {
    color: #fff;
    background-color: #337ab7;
  }
  .nav-stacked > li {
    float: none;
  }
  .nav-stacked > li + li {
    margin-top: 2px;
    margin-left: 0;
  }
  .nav-justified {
    width: 100%;
  }
  .nav-justified > li {
    float: none;
  }
  .nav-justified > li > a {
    text-align: center;
    margin-bottom: 5px;
  }
  .nav-justified > .dropdown .dropdown-menu {
    top: auto;
    left: auto;
  }
  @media (min-width: 768px) {
    .nav-justified > li {
      display: table-cell;
      width: 1%;
    }
    .nav-justified > li > a {
      margin-bottom: 0;
    }
  }
  .nav-tabs-justified {
    border-bottom: 0;
  }
  .nav-tabs-justified > li > a {
    margin-right: 0;
    border-radius: 2px;
  }
  .nav-tabs-justified > .active > a,
  .nav-tabs-justified > .active > a:hover,
  .nav-tabs-justified > .active > a:focus {
    border: 1px solid #ddd;
  }
  @media (min-width: 768px) {
    .nav-tabs-justified > li > a {
      border-bottom: 1px solid #ddd;
      border-radius: 2px 2px 0 0;
```

```
    }
    .nav-tabs-justified > .active > a,
    .nav-tabs-justified > .active > a:hover,
    .nav-tabs-justified > .active > a:focus {
      border-bottom-color: #fff;
    }
  }
  .tab-content > .tab-pane {
    display: none;
  }
  .tab-content > .active {
    display: block;
  }
  .nav-tabs .dropdown-menu {
    margin-top: -1px;
    border-top-right-radius: 0;
    border-top-left-radius: 0;
  }
  .navbar {
    position: relative;
    min-height: 30px;
    margin-bottom: 18px;
    border: 1px solid transparent;
  }
  @media (min-width: 541px) {
    .navbar {
      border-radius: 2px;
    }
  }
  @media (min-width: 541px) {
    .navbar-header {
      float: left;
    }
  }
  .navbar-collapse {
    overflow-x: visible;
    padding-right: 0px;
    padding-left: 0px;
    border-top: 1px solid transparent;
    box-shadow: inset 0 1px 0 rgba(255, 255, 255, 0.1);
    -webkit-overflow-scrolling: touch;
  }
  .navbar-collapse.in {
    overflow-y: auto;
  }
  @media (min-width: 541px) {
    .navbar-collapse {
      width: auto;
      border-top: 0;
      box-shadow: none;
    }
    .navbar-collapse.collapse {
      display: block !important;
      height: auto !important;
      padding-bottom: 0;
      overflow: visible !important;
    }
    .navbar-collapse.in {
      overflow-y: visible;
    }
    .navbar-fixed-top .navbar-collapse,
    .navbar-static-top .navbar-collapse,
    .navbar-fixed-bottom .navbar-collapse {
      padding-left: 0;
      padding-right: 0;
```

```
    }
  }
  .navbar-fixed-top .navbar-collapse,
  .navbar-fixed-bottom .navbar-collapse {
    max-height: 340px;
  }
  @media (max-device-width: 540px) and (orientation: landscape) {
    .navbar-fixed-top .navbar-collapse,
    .navbar-fixed-bottom .navbar-collapse {
      max-height: 200px;
    }
  }
  .container > .navbar-header,
  .container-fluid > .navbar-header,
  .container > .navbar-collapse,
  .container-fluid > .navbar-collapse {
    margin-right: 0px;
    margin-left: 0px;
  }
  @media (min-width: 541px) {
    .container > .navbar-header,
    .container-fluid > .navbar-header,
    .container > .navbar-collapse,
    .container-fluid > .navbar-collapse {
      margin-right: 0;
      margin-left: 0;
    }
  }
  .navbar-static-top {
    z-index: 1000;
    border-width: 0 0 1px;
  }
  @media (min-width: 541px) {
    .navbar-static-top {
      border-radius: 0;
    }
  }
  .navbar-fixed-top,
  .navbar-fixed-bottom {
    position: fixed;
    right: 0;
    left: 0;
    z-index: 1030;
  }
  @media (min-width: 541px) {
    .navbar-fixed-top,
    .navbar-fixed-bottom {
      border-radius: 0;
    }
  }
  .navbar-fixed-top {
    top: 0;
    border-width: 0 0 1px;
  }
  .navbar-fixed-bottom {
    bottom: 0;
    margin-bottom: 0;
    border-width: 1px 0 0;
  }
  .navbar-brand {
    float: left;
    padding: 6px 0px;
    font-size: 17px;
    line-height: 18px;
    height: 30px;
```

```
}
.navbar-brand:hover,
.navbar-brand:focus {
  text-decoration: none;
}
.navbar-brand > img {
  display: block;
}
@media (min-width: 541px) {
  .navbar > .container .navbar-brand,
  .navbar > .container-fluid .navbar-brand {
    margin-left: 0px;
  }
}
.navbar-toggle {
  position: relative;
  float: right;
  margin-right: 0px;
  padding: 9px 10px;
  margin-top: -2px;
  margin-bottom: -2px;
  background-color: transparent;
  background-image: none;
  border: 1px solid transparent;
  border-radius: 2px;
}
.navbar-toggle:focus {
  outline: 0;
}
.navbar-toggle .icon-bar {
  display: block;
  width: 22px;
  height: 2px;
  border-radius: 1px;
}
.navbar-toggle .icon-bar + .icon-bar {
  margin-top: 4px;
}
@media (min-width: 541px) {
  .navbar-toggle {
    display: none;
  }
}
.navbar-nav {
  margin: 3px 0px;
}
.navbar-nav > li > a {
  padding-top: 10px;
  padding-bottom: 10px;
  line-height: 18px;
}
@media (max-width: 540px) {
  .navbar-nav .open .dropdown-menu {
    position: static;
    float: none;
    width: auto;
    margin-top: 0;
    background-color: transparent;
    border: 0;
    box-shadow: none;
  }
  .navbar-nav .open .dropdown-menu > li > a,
  .navbar-nav .open .dropdown-menu .dropdown-header {
    padding: 5px 15px 5px 25px;
  }
```

```
    .navbar-nav .open .dropdown-menu > li > a {
      line-height: 18px;
    }
    .navbar-nav .open .dropdown-menu > li > a:hover,
    .navbar-nav .open .dropdown-menu > li > a:focus {
      background-image: none;
    }
  }
  @media (min-width: 541px) {
    .navbar-nav {
      float: left;
      margin: 0;
    }
    .navbar-nav > li {
      float: left;
    }
    .navbar-nav > li > a {
      padding-top: 6px;
      padding-bottom: 6px;
    }
  }
  .navbar-form {
    margin-left: 0px;
    margin-right: 0px;
    padding: 10px 0px;
    border-top: 1px solid transparent;
    border-bottom: 1px solid transparent;
    -webkit-box-shadow: inset 0 1px 0 rgba(255, 255, 255, 0.1), 0 1px 0 rgba(255, 255, 255, 0.1);
    box-shadow: inset 0 1px 0 rgba(255, 255, 255, 0.1), 0 1px 0 rgba(255, 255, 255, 0.1);
    margin-top: -1px;
    margin-bottom: -1px;
  }
  @media (min-width: 768px) {
    .navbar-form .form-group {
      display: inline-block;
      margin-bottom: 0;
      vertical-align: middle;
    }
    .navbar-form .form-control {
      display: inline-block;
      width: auto;
      vertical-align: middle;
    }
    .navbar-form .form-control-static {
      display: inline-block;
    }
    .navbar-form .input-group {
      display: inline-table;
      vertical-align: middle;
    }
    .navbar-form .input-group .input-group-addon,
    .navbar-form .input-group .input-group-btn,
    .navbar-form .input-group .form-control {
      width: auto;
    }
    .navbar-form .input-group > .form-control {
      width: 100%;
    }
    .navbar-form .control-label {
      margin-bottom: 0;
      vertical-align: middle;
    }
    .navbar-form .radio,
    .navbar-form .checkbox {
      display: inline-block;
```

```
      margin-top: 0;
      margin-bottom: 0;
      vertical-align: middle;
    }
    .navbar-form .radio label,
    .navbar-form .checkbox label {
      padding-left: 0;
    }
    .navbar-form .radio input[type="radio"],
    .navbar-form .checkbox input[type="checkbox"] {
      position: relative;
      margin-left: 0;
    }
    .navbar-form .has-feedback .form-control-feedback {
      top: 0;
    }
  }
  @media (max-width: 540px) {
    .navbar-form .form-group {
      margin-bottom: 5px;
    }
    .navbar-form .form-group:last-child {
      margin-bottom: 0;
    }
  }
  @media (min-width: 541px) {
    .navbar-form {
      width: auto;
      border: 0;
      margin-left: 0;
      margin-right: 0;
      padding-top: 0;
      padding-bottom: 0;
      -webkit-box-shadow: none;
      box-shadow: none;
    }
  }
  .navbar-nav > li > .dropdown-menu {
    margin-top: 0;
    border-top-right-radius: 0;
    border-top-left-radius: 0;
  }
  .navbar-fixed-bottom .navbar-nav > li > .dropdown-menu {
    margin-bottom: 0;
    border-top-right-radius: 2px;
    border-top-left-radius: 2px;
    border-bottom-right-radius: 0;
    border-bottom-left-radius: 0;
  }
  .navbar-btn {
    margin-top: -1px;
    margin-bottom: -1px;
  }
  .navbar-btn.btn-sm {
    margin-top: 0px;
    margin-bottom: 0px;
  }
  .navbar-btn.btn-xs {
    margin-top: 4px;
    margin-bottom: 4px;
  }
  .navbar-text {
    margin-top: 6px;
    margin-bottom: 6px;
  }
```

```
@media (min-width: 541px) {
  .navbar-text {
    float: left;
    margin-left: 0px;
    margin-right: 0px;
  }
}
@media (min-width: 541px) {
  .navbar-left {
    float: left !important;
    float: left;
  }
  .navbar-right {
    float: right !important;
    float: right;
    margin-right: 0px;
  }
  .navbar-right ~ .navbar-right {
    margin-right: 0;
  }
}
.navbar-default {
  background-color: #f8f8f8;
  border-color: #e7e7e7;
}
.navbar-default .navbar-brand {
  color: #777;
}
.navbar-default .navbar-brand:hover,
.navbar-default .navbar-brand:focus {
  color: #5e5e5e;
  background-color: transparent;
}
.navbar-default .navbar-text {
  color: #777;
}
.navbar-default .navbar-nav > li > a {
  color: #777;
}
.navbar-default .navbar-nav > li > a:hover,
.navbar-default .navbar-nav > li > a:focus {
  color: #333;
  background-color: transparent;
}
.navbar-default .navbar-nav > .active > a,
.navbar-default .navbar-nav > .active > a:hover,
.navbar-default .navbar-nav > .active > a:focus {
  color: #555;
  background-color: #e7e7e7;
}
.navbar-default .navbar-nav > .disabled > a,
.navbar-default .navbar-nav > .disabled > a:hover,
.navbar-default .navbar-nav > .disabled > a:focus {
  color: #ccc;
  background-color: transparent;
}
.navbar-default .navbar-toggle {
  border-color: #ddd;
}
.navbar-default .navbar-toggle:hover,
.navbar-default .navbar-toggle:focus {
  background-color: #ddd;
}
.navbar-default .navbar-toggle .icon-bar {
  background-color: #888;
```

```
}
.navbar-default .navbar-collapse,
.navbar-default .navbar-form {
  border-color: #e7e7e7;
}
.navbar-default .navbar-nav > .open > a,
.navbar-default .navbar-nav > .open > a:hover,
.navbar-default .navbar-nav > .open > a:focus {
  background-color: #e7e7e7;
  color: #555;
}
@media (max-width: 540px) {
  .navbar-default .navbar-nav .open .dropdown-menu > li > a {
    color: #777;
  }
  .navbar-default .navbar-nav .open .dropdown-menu > li > a:hover,
  .navbar-default .navbar-nav .open .dropdown-menu > li > a:focus {
    color: #333;
    background-color: transparent;
  }
  .navbar-default .navbar-nav .open .dropdown-menu > .active > a,
  .navbar-default .navbar-nav .open .dropdown-menu > .active > a:hover,
  .navbar-default .navbar-nav .open .dropdown-menu > .active > a:focus {
    color: #555;
    background-color: #e7e7e7;
  }
  .navbar-default .navbar-nav .open .dropdown-menu > .disabled > a,
  .navbar-default .navbar-nav .open .dropdown-menu > .disabled > a:hover,
  .navbar-default .navbar-nav .open .dropdown-menu > .disabled > a:focus {
    color: #ccc;
    background-color: transparent;
  }
}
.navbar-default .navbar-link {
  color: #777;
}
.navbar-default .navbar-link:hover {
  color: #333;
}
.navbar-default .btn-link {
  color: #777;
}
.navbar-default .btn-link:hover,
.navbar-default .btn-link:focus {
  color: #333;
}
.navbar-default .btn-link[disabled]:hover,
fieldset[disabled] .navbar-default .btn-link:hover,
.navbar-default .btn-link[disabled]:focus,
fieldset[disabled] .navbar-default .btn-link:focus {
  color: #ccc;
}
.navbar-inverse {
  background-color: #222;
  border-color: #080808;
}
.navbar-inverse .navbar-brand {
  color: #9d9d9d;
}
.navbar-inverse .navbar-brand:hover,
.navbar-inverse .navbar-brand:focus {
  color: #fff;
  background-color: transparent;
}
.navbar-inverse .navbar-text {
```

```
    color: #9d9d9d;
  }
  .navbar-inverse .navbar-nav > li > a {
    color: #9d9d9d;
  }
  .navbar-inverse .navbar-nav > li > a:hover,
  .navbar-inverse .navbar-nav > li > a:focus {
    color: #fff;
    background-color: transparent;
  }
  .navbar-inverse .navbar-nav > .active > a,
  .navbar-inverse .navbar-nav > .active > a:hover,
  .navbar-inverse .navbar-nav > .active > a:focus {
    color: #fff;
    background-color: #080808;
  }
  .navbar-inverse .navbar-nav > .disabled > a,
  .navbar-inverse .navbar-nav > .disabled > a:hover,
  .navbar-inverse .navbar-nav > .disabled > a:focus {
    color: #444;
    background-color: transparent;
  }
  .navbar-inverse .navbar-toggle {
    border-color: #333;
  }
  .navbar-inverse .navbar-toggle:hover,
  .navbar-inverse .navbar-toggle:focus {
    background-color: #333;
  }
  .navbar-inverse .navbar-toggle .icon-bar {
    background-color: #fff;
  }
  .navbar-inverse .navbar-collapse,
  .navbar-inverse .navbar-form {
    border-color: #101010;
  }
  .navbar-inverse .navbar-nav > .open > a,
  .navbar-inverse .navbar-nav > .open > a:hover,
  .navbar-inverse .navbar-nav > .open > a:focus {
    background-color: #080808;
    color: #fff;
  }
  @media (max-width: 540px) {
    .navbar-inverse .navbar-nav .open .dropdown-menu > .dropdown-header {
      border-color: #080808;
    }
    .navbar-inverse .navbar-nav .open .dropdown-menu .divider {
      background-color: #080808;
    }
    .navbar-inverse .navbar-nav .open .dropdown-menu > li > a {
      color: #9d9d9d;
    }
    .navbar-inverse .navbar-nav .open .dropdown-menu > li > a:hover,
    .navbar-inverse .navbar-nav .open .dropdown-menu > li > a:focus {
      color: #fff;
      background-color: transparent;
    }
    .navbar-inverse .navbar-nav .open .dropdown-menu > .active > a,
    .navbar-inverse .navbar-nav .open .dropdown-menu > .active > a:hover,
    .navbar-inverse .navbar-nav .open .dropdown-menu > .active > a:focus {
      color: #fff;
      background-color: #080808;
    }
    .navbar-inverse .navbar-nav .open .dropdown-menu > .disabled > a,
    .navbar-inverse .navbar-nav .open .dropdown-menu > .disabled > a:hover,
```

```
    .navbar-inverse .navbar-nav .open .dropdown-menu > .disabled > a:focus {
      color: #444;
      background-color: transparent;
    }
  }
  .navbar-inverse .navbar-link {
    color: #9d9d9d;
  }
  .navbar-inverse .navbar-link:hover {
    color: #fff;
  }
  .navbar-inverse .btn-link {
    color: #9d9d9d;
  }
  .navbar-inverse .btn-link:hover,
  .navbar-inverse .btn-link:focus {
    color: #fff;
  }
  .navbar-inverse .btn-link[disabled]:hover,
  fieldset[disabled] .navbar-inverse .btn-link:hover,
  .navbar-inverse .btn-link[disabled]:focus,
  fieldset[disabled] .navbar-inverse .btn-link:focus {
    color: #444;
  }
  .breadcrumb {
    padding: 8px 15px;
    margin-bottom: 18px;
    list-style: none;
    background-color: #f5f5f5;
    border-radius: 2px;
  }
  .breadcrumb > li {
    display: inline-block;
  }
  .breadcrumb > li + li:before {
    content: "/\00a0";
    padding: 0 5px;
    color: #5e5e5e;
  }
  .breadcrumb > .active {
    color: #777777;
  }
  .pagination {
    display: inline-block;
    padding-left: 0;
    margin: 18px 0;
    border-radius: 2px;
  }
  .pagination > li {
    display: inline;
  }
  .pagination > li > a,
  .pagination > li > span {
    position: relative;
    float: left;
    padding: 6px 12px;
    line-height: 1.42857143;
    text-decoration: none;
    color: #337ab7;
    background-color: #fff;
    border: 1px solid #ddd;
    margin-left: -1px;
  }
  .pagination > li:first-child > a,
  .pagination > li:first-child > span {
```

```
    margin-left: 0;
    border-bottom-left-radius: 2px;
    border-top-left-radius: 2px;
  }
  .pagination > li:last-child > a,
  .pagination > li:last-child > span {
    border-bottom-right-radius: 2px;
    border-top-right-radius: 2px;
  }
  .pagination > li > a:hover,
  .pagination > li > span:hover,
  .pagination > li > a:focus,
  .pagination > li > span:focus {
    z-index: 2;
    color: #23527c;
    background-color: #eeeeee;
    border-color: #ddd;
  }
  .pagination > .active > a,
  .pagination > .active > span,
  .pagination > .active > a:hover,
  .pagination > .active > span:hover,
  .pagination > .active > a:focus,
  .pagination > .active > span:focus {
    z-index: 3;
    color: #fff;
    background-color: #337ab7;
    border-color: #337ab7;
    cursor: default;
  }
  .pagination > .disabled > span,
  .pagination > .disabled > span:hover,
  .pagination > .disabled > span:focus,
  .pagination > .disabled > a,
  .pagination > .disabled > a:hover,
  .pagination > .disabled > a:focus {
    color: #777777;
    background-color: #fff;
    border-color: #ddd;
    cursor: not-allowed;
  }
  .pagination-lg > li > a,
  .pagination-lg > li > span {
    padding: 10px 16px;
    font-size: 17px;
    line-height: 1.3333333;
  }
  .pagination-lg > li:first-child > a,
  .pagination-lg > li:first-child > span {
    border-bottom-left-radius: 3px;
    border-top-left-radius: 3px;
  }
  .pagination-lg > li:last-child > a,
  .pagination-lg > li:last-child > span {
    border-bottom-right-radius: 3px;
    border-top-right-radius: 3px;
  }
  .pagination-sm > li > a,
  .pagination-sm > li > span {
    padding: 5px 10px;
    font-size: 12px;
    line-height: 1.5;
  }
  .pagination-sm > li:first-child > a,
  .pagination-sm > li:first-child > span {
```

```
  border-bottom-left-radius: 1px;
  border-top-left-radius: 1px;
}
.pagination-sm > li:last-child > a,
.pagination-sm > li:last-child > span {
  border-bottom-right-radius: 1px;
  border-top-right-radius: 1px;
}
.pager {
  padding-left: 0;
  margin: 18px 0;
  list-style: none;
  text-align: center;
}
.pager li {
  display: inline;
}
.pager li > a,
.pager li > span {
  display: inline-block;
  padding: 5px 14px;
  background-color: #fff;
  border: 1px solid #ddd;
  border-radius: 15px;
}
.pager li > a:hover,
.pager li > a:focus {
  text-decoration: none;
  background-color: #eeeeee;
}
.pager .next > a,
.pager .next > span {
  float: right;
}
.pager .previous > a,
.pager .previous > span {
  float: left;
}
.pager .disabled > a,
.pager .disabled > a:hover,
.pager .disabled > a:focus,
.pager .disabled > span {
  color: #777777;
  background-color: #fff;
  cursor: not-allowed;
}
.label {
  display: inline;
  padding: .2em .6em .3em;
  font-size: 75%;
  font-weight: bold;
  line-height: 1;
  color: #fff;
  text-align: center;
  white-space: nowrap;
  vertical-align: baseline;
  border-radius: .25em;
}
a.label:hover,
a.label:focus {
  color: #fff;
  text-decoration: none;
  cursor: pointer;
}
.label:empty {
```

```
    display: none;
  }
  .btn .label {
    position: relative;
    top: -1px;
  }
  .label-default {
    background-color: #777777;
  }
  .label-default[href]:hover,
  .label-default[href]:focus {
    background-color: #5e5e5e;
  }
  .label-primary {
    background-color: #337ab7;
  }
  .label-primary[href]:hover,
  .label-primary[href]:focus {
    background-color: #286090;
  }
  .label-success {
    background-color: #5cb85c;
  }
  .label-success[href]:hover,
  .label-success[href]:focus {
    background-color: #449d44;
  }
  .label-info {
    background-color: #5bc0de;
  }
  .label-info[href]:hover,
  .label-info[href]:focus {
    background-color: #31b0d5;
  }
  .label-warning {
    background-color: #f0ad4e;
  }
  .label-warning[href]:hover,
  .label-warning[href]:focus {
    background-color: #ec971f;
  }
  .label-danger {
    background-color: #d9534f;
  }
  .label-danger[href]:hover,
  .label-danger[href]:focus {
    background-color: #c9302c;
  }
  .badge {
    display: inline-block;
    min-width: 10px;
    padding: 3px 7px;
    font-size: 12px;
    font-weight: bold;
    color: #fff;
    line-height: 1;
    vertical-align: middle;
    white-space: nowrap;
    text-align: center;
    background-color: #777777;
    border-radius: 10px;
  }
  .badge:empty {
    display: none;
  }
```

```
.btn .badge {
  position: relative;
  top: -1px;
}
.btn-xs .badge,
.btn-group-xs > .btn .badge {
  top: 0;
  padding: 1px 5px;
}
a.badge:hover,
a.badge:focus {
  color: #fff;
  text-decoration: none;
  cursor: pointer;
}
.list-group-item.active > .badge,
.nav-pills > .active > a > .badge {
  color: #337ab7;
  background-color: #fff;
}
.list-group-item > .badge {
  float: right;
}
.list-group-item > .badge + .badge {
  margin-right: 5px;
}
.nav-pills > li > a > .badge {
  margin-left: 3px;
}
.jumbotron {
  padding-top: 30px;
  padding-bottom: 30px;
  margin-bottom: 30px;
  color: inherit;
  background-color: #eeeeee;
}
.jumbotron h1,
.jumbotron .h1 {
  color: inherit;
}
.jumbotron p {
  margin-bottom: 15px;
  font-size: 20px;
  font-weight: 200;
}
.jumbotron > hr {
  border-top-color: #d5d5d5;
}
.container .jumbotron,
.container-fluid .jumbotron {
  border-radius: 3px;
  padding-left: 0px;
  padding-right: 0px;
}
.jumbotron .container {
  max-width: 100%;
}
@media screen and (min-width: 768px) {
  .jumbotron {
    padding-top: 48px;
    padding-bottom: 48px;
  }
  .container .jumbotron,
  .container-fluid .jumbotron {
    padding-left: 60px;
```

```
      padding-right: 60px;
    }
    .jumbotron h1,
    .jumbotron .h1 {
      font-size: 59px;
    }
  }
  .thumbnail {
    display: block;
    padding: 4px;
    margin-bottom: 18px;
    line-height: 1.42857143;
    background-color: #fff;
    border: 1px solid #ddd;
    border-radius: 2px;
    -webkit-transition: border 0.2s ease-in-out;
    -o-transition: border 0.2s ease-in-out;
    transition: border 0.2s ease-in-out;
  }
  .thumbnail > img,
  .thumbnail a > img {
    margin-left: auto;
    margin-right: auto;
  }
  a.thumbnail:hover,
  a.thumbnail:focus,
  a.thumbnail.active {
    border-color: #337ab7;
  }
  .thumbnail .caption {
    padding: 9px;
    color: #000;
  }
  .alert {
    padding: 15px;
    margin-bottom: 18px;
    border: 1px solid transparent;
    border-radius: 2px;
  }
  .alert h4 {
    margin-top: 0;
    color: inherit;
  }
  .alert .alert-link {
    font-weight: bold;
  }
  .alert > p,
  .alert > ul {
    margin-bottom: 0;
  }
  .alert > p + p {
    margin-top: 5px;
  }
  .alert-dismissable,
  .alert-dismissible {
    padding-right: 35px;
  }
  .alert-dismissable .close,
  .alert-dismissible .close {
    position: relative;
    top: -2px;
    right: -21px;
    color: inherit;
  }
  .alert-success {
```

```
    background-color: #dff0d8;
    border-color: #d6e9c6;
    color: #3c763d;
  }
  .alert-success hr {
    border-top-color: #c9e2b3;
  }
  .alert-success .alert-link {
    color: #2b542c;
  }
  .alert-info {
    background-color: #d9edf7;
    border-color: #bce8f1;
    color: #31708f;
  }
  .alert-info hr {
    border-top-color: #a6e1ec;
  }
  .alert-info .alert-link {
    color: #245269;
  }
  .alert-warning {
    background-color: #fcf8e3;
    border-color: #faebcc;
    color: #8a6d3b;
  }
  .alert-warning hr {
    border-top-color: #f7e1b5;
  }
  .alert-warning .alert-link {
    color: #66512c;
  }
  .alert-danger {
    background-color: #f2dede;
    border-color: #ebccd1;
    color: #a94442;
  }
  .alert-danger hr {
    border-top-color: #e4b9c0;
  }
  .alert-danger .alert-link {
    color: #843534;
  }
  @-webkit-keyframes progress-bar-stripes {
    from {
      background-position: 40px 0;
    }
    to {
      background-position: 0 0;
    }
  }
  @keyframes progress-bar-stripes {
    from {
      background-position: 40px 0;
    }
    to {
      background-position: 0 0;
    }
  }
  .progress {
    overflow: hidden;
    height: 18px;
    margin-bottom: 18px;
    background-color: #f5f5f5;
    border-radius: 2px;
```

```
    -webkit-box-shadow: inset 0 1px 2px rgba(0, 0, 0, 0.1);
    box-shadow: inset 0 1px 2px rgba(0, 0, 0, 0.1);
  }
  .progress-bar {
    float: left;
    width: 0%;
    height: 100%;
    font-size: 12px;
    line-height: 18px;
    color: #fff;
    text-align: center;
    background-color: #337ab7;
    -webkit-box-shadow: inset 0 -1px 0 rgba(0, 0, 0, 0.15);
    box-shadow: inset 0 -1px 0 rgba(0, 0, 0, 0.15);
    -webkit-transition: width 0.6s ease;
    -o-transition: width 0.6s ease;
    transition: width 0.6s ease;
  }
  .progress-striped .progress-bar,
  .progress-bar-striped {
    background-image: -webkit-linear-gradient(45deg, rgba(255, 255, 255, 0.15) 25%, transparent 25%,
  transparent 50%, rgba(255, 255, 255, 0.15) 50%, rgba(255, 255, 255, 0.15) 75%, transparent 75%,
  transparent);
    background-image: -o-linear-gradient(45deg, rgba(255, 255, 255, 0.15) 25%, transparent 25%,
  transparent 50%, rgba(255, 255, 255, 0.15) 50%, rgba(255, 255, 255, 0.15) 75%, transparent 75%,
  transparent);
    background-image: linear-gradient(45deg, rgba(255, 255, 255, 0.15) 25%, transparent 25%,
  transparent 50%, rgba(255, 255, 255, 0.15) 50%, rgba(255, 255, 255, 0.15) 75%, transparent 75%,
  transparent);
    background-size: 40px 40px;
  }
  .progress.active .progress-bar,
  .progress-bar.active {
    -webkit-animation: progress-bar-stripes 2s linear infinite;
    -o-animation: progress-bar-stripes 2s linear infinite;
    animation: progress-bar-stripes 2s linear infinite;
  }
  .progress-bar-success {
    background-color: #5cb85c;
  }
  .progress-striped .progress-bar-success {
    background-image: -webkit-linear-gradient(45deg, rgba(255, 255, 255, 0.15) 25%, transparent 25%,
  transparent 50%, rgba(255, 255, 255, 0.15) 50%, rgba(255, 255, 255, 0.15) 75%, transparent 75%,
  transparent);
    background-image: -o-linear-gradient(45deg, rgba(255, 255, 255, 0.15) 25%, transparent 25%,
  transparent 50%, rgba(255, 255, 255, 0.15) 50%, rgba(255, 255, 255, 0.15) 75%, transparent 75%,
  transparent);
    background-image: linear-gradient(45deg, rgba(255, 255, 255, 0.15) 25%, transparent 25%,
  transparent 50%, rgba(255, 255, 255, 0.15) 50%, rgba(255, 255, 255, 0.15) 75%, transparent 75%,
  transparent);
  }
  .progress-bar-info {
    background-color: #5bc0de;
  }
  .progress-striped .progress-bar-info {
    background-image: -webkit-linear-gradient(45deg, rgba(255, 255, 255, 0.15) 25%, transparent 25%,
  transparent 50%, rgba(255, 255, 255, 0.15) 50%, rgba(255, 255, 255, 0.15) 75%, transparent 75%,
  transparent);
    background-image: -o-linear-gradient(45deg, rgba(255, 255, 255, 0.15) 25%, transparent 25%,
  transparent 50%, rgba(255, 255, 255, 0.15) 50%, rgba(255, 255, 255, 0.15) 75%, transparent 75%,
  transparent);
    background-image: linear-gradient(45deg, rgba(255, 255, 255, 0.15) 25%, transparent 25%,
  transparent 50%, rgba(255, 255, 255, 0.15) 50%, rgba(255, 255, 255, 0.15) 75%, transparent 75%,
  transparent);
  }
```

```
.progress-bar-warning {
  background-color: #f0ad4e;
}
.progress-striped .progress-bar-warning {
  background-image: -webkit-linear-gradient(45deg, rgba(255, 255, 255, 0.15) 25%, transparent 25%,
transparent 50%, rgba(255, 255, 255, 0.15) 50%, rgba(255, 255, 255, 0.15) 75%, transparent 75%,
transparent);
  background-image: -o-linear-gradient(45deg, rgba(255, 255, 255, 0.15) 25%, transparent 25%,
transparent 50%, rgba(255, 255, 255, 0.15) 50%, rgba(255, 255, 255, 0.15) 75%, transparent 75%,
transparent);
  background-image: linear-gradient(45deg, rgba(255, 255, 255, 0.15) 25%, transparent 25%,
transparent 50%, rgba(255, 255, 255, 0.15) 50%, rgba(255, 255, 255, 0.15) 75%, transparent 75%,
transparent);
}
.progress-bar-danger {
  background-color: #d9534f;
}
.progress-striped .progress-bar-danger {
  background-image: -webkit-linear-gradient(45deg, rgba(255, 255, 255, 0.15) 25%, transparent 25%,
transparent 50%, rgba(255, 255, 255, 0.15) 50%, rgba(255, 255, 255, 0.15) 75%, transparent 75%,
transparent);
  background-image: -o-linear-gradient(45deg, rgba(255, 255, 255, 0.15) 25%, transparent 25%,
transparent 50%, rgba(255, 255, 255, 0.15) 50%, rgba(255, 255, 255, 0.15) 75%, transparent 75%,
transparent);
  background-image: linear-gradient(45deg, rgba(255, 255, 255, 0.15) 25%, transparent 25%,
transparent 50%, rgba(255, 255, 255, 0.15) 50%, rgba(255, 255, 255, 0.15) 75%, transparent 75%,
transparent);
}
.media {
  margin-top: 15px;
}
.media:first-child {
  margin-top: 0;
}
.media,
.media-body {
  zoom: 1;
  overflow: hidden;
}
.media-body {
  width: 10000px;
}
.media-object {
  display: block;
}
.media-object.img-thumbnail {
  max-width: none;
}
.media-right,
.media > .pull-right {
  padding-left: 10px;
}
.media-left,
.media > .pull-left {
  padding-right: 10px;
}
.media-left,
.media-right,
.media-body {
  display: table-cell;
  vertical-align: top;
}
.media-middle {
  vertical-align: middle;
}
```

```
.media-bottom {
  vertical-align: bottom;
}
.media-heading {
  margin-top: 0;
  margin-bottom: 5px;
}
.media-list {
  padding-left: 0;
  list-style: none;
}
.list-group {
  margin-bottom: 20px;
  padding-left: 0;
}
.list-group-item {
  position: relative;
  display: block;
  padding: 10px 15px;
  margin-bottom: -1px;
  background-color: #fff;
  border: 1px solid #ddd;
}
.list-group-item:first-child {
  border-top-right-radius: 2px;
  border-top-left-radius: 2px;
}
.list-group-item:last-child {
  margin-bottom: 0;
  border-bottom-right-radius: 2px;
  border-bottom-left-radius: 2px;
}
a.list-group-item,
button.list-group-item {
  color: #555;
}
a.list-group-item .list-group-item-heading,
button.list-group-item .list-group-item-heading {
  color: #333;
}
a.list-group-item:hover,
button.list-group-item:hover,
a.list-group-item:focus,
button.list-group-item:focus {
  text-decoration: none;
  color: #555;
  background-color: #f5f5f5;
}
button.list-group-item {
  width: 100%;
  text-align: left;
}
.list-group-item.disabled,
.list-group-item.disabled:hover,
.list-group-item.disabled:focus {
  background-color: #eeeeee;
  color: #777777;
  cursor: not-allowed;
}
.list-group-item.disabled .list-group-item-heading,
.list-group-item.disabled:hover .list-group-item-heading,
.list-group-item.disabled:focus .list-group-item-heading {
  color: inherit;
}
.list-group-item.disabled .list-group-item-text,
```

```
.list-group-item.disabled:hover .list-group-item-text,
.list-group-item.disabled:focus .list-group-item-text {
  color: #777777;
}
.list-group-item.active,
.list-group-item.active:hover,
.list-group-item.active:focus {
  z-index: 2;
  color: #fff;
  background-color: #337ab7;
  border-color: #337ab7;
}
.list-group-item.active .list-group-item-heading,
.list-group-item.active:hover .list-group-item-heading,
.list-group-item.active:focus .list-group-item-heading,
.list-group-item.active .list-group-item-heading > small,
.list-group-item.active:hover .list-group-item-heading > small,
.list-group-item.active:focus .list-group-item-heading > small,
.list-group-item.active .list-group-item-heading > .small,
.list-group-item.active:hover .list-group-item-heading > .small,
.list-group-item.active:focus .list-group-item-heading > .small {
  color: inherit;
}
.list-group-item.active .list-group-item-text,
.list-group-item.active:hover .list-group-item-text,
.list-group-item.active:focus .list-group-item-text {
  color: #c7ddef;
}
.list-group-item-success {
  color: #3c763d;
  background-color: #dff0d8;
}
a.list-group-item-success,
button.list-group-item-success {
  color: #3c763d;
}
a.list-group-item-success .list-group-item-heading,
button.list-group-item-success .list-group-item-heading {
  color: inherit;
}
a.list-group-item-success:hover,
button.list-group-item-success:hover,
a.list-group-item-success:focus,
button.list-group-item-success:focus {
  color: #3c763d;
  background-color: #d0e9c6;
}
a.list-group-item-success.active,
button.list-group-item-success.active,
a.list-group-item-success.active:hover,
button.list-group-item-success.active:hover,
a.list-group-item-success.active:focus,
button.list-group-item-success.active:focus {
  color: #fff;
  background-color: #3c763d;
  border-color: #3c763d;
}
.list-group-item-info {
  color: #31708f;
  background-color: #d9edf7;
}
a.list-group-item-info,
button.list-group-item-info {
  color: #31708f;
}
```

```
a.list-group-item-info .list-group-item-heading,
button.list-group-item-info .list-group-item-heading {
  color: inherit;
}
a.list-group-item-info:hover,
button.list-group-item-info:hover,
a.list-group-item-info:focus,
button.list-group-item-info:focus {
  color: #31708f;
  background-color: #c4e3f3;
}
a.list-group-item-info.active,
button.list-group-item-info.active,
a.list-group-item-info.active:hover,
button.list-group-item-info.active:hover,
a.list-group-item-info.active:focus,
button.list-group-item-info.active:focus {
  color: #fff;
  background-color: #31708f;
  border-color: #31708f;
}
.list-group-item-warning {
  color: #8a6d3b;
  background-color: #fcf8e3;
}
a.list-group-item-warning,
button.list-group-item-warning {
  color: #8a6d3b;
}
a.list-group-item-warning .list-group-item-heading,
button.list-group-item-warning .list-group-item-heading {
  color: inherit;
}
a.list-group-item-warning:hover,
button.list-group-item-warning:hover,
a.list-group-item-warning:focus,
button.list-group-item-warning:focus {
  color: #8a6d3b;
  background-color: #faf2cc;
}
a.list-group-item-warning.active,
button.list-group-item-warning.active,
a.list-group-item-warning.active:hover,
button.list-group-item-warning.active:hover,
a.list-group-item-warning.active:focus,
button.list-group-item-warning.active:focus {
  color: #fff;
  background-color: #8a6d3b;
  border-color: #8a6d3b;
}
.list-group-item-danger {
  color: #a94442;
  background-color: #f2dede;
}
a.list-group-item-danger,
button.list-group-item-danger {
  color: #a94442;
}
a.list-group-item-danger .list-group-item-heading,
button.list-group-item-danger .list-group-item-heading {
  color: inherit;
}
a.list-group-item-danger:hover,
button.list-group-item-danger:hover,
a.list-group-item-danger:focus,
```

```
button.list-group-item-danger:focus {
  color: #a94442;
  background-color: #ebcccc;
}
a.list-group-item-danger.active,
button.list-group-item-danger.active,
a.list-group-item-danger.active:hover,
button.list-group-item-danger.active:hover,
a.list-group-item-danger.active:focus,
button.list-group-item-danger.active:focus {
  color: #fff;
  background-color: #a94442;
  border-color: #a94442;
}
.list-group-item-heading {
  margin-top: 0;
  margin-bottom: 5px;
}
.list-group-item-text {
  margin-bottom: 0;
  line-height: 1.3;
}
.panel {
  margin-bottom: 18px;
  background-color: #fff;
  border: 1px solid transparent;
  border-radius: 2px;
  -webkit-box-shadow: 0 1px 1px rgba(0, 0, 0, 0.05);
  box-shadow: 0 1px 1px rgba(0, 0, 0, 0.05);
}
.panel-body {
  padding: 15px;
}
.panel-heading {
  padding: 10px 15px;
  border-bottom: 1px solid transparent;
  border-top-right-radius: 1px;
  border-top-left-radius: 1px;
}
.panel-heading > .dropdown .dropdown-toggle {
  color: inherit;
}
.panel-title {
  margin-top: 0;
  margin-bottom: 0;
  font-size: 15px;
  color: inherit;
}
.panel-title > a,
.panel-title > small,
.panel-title > .small,
.panel-title > small > a,
.panel-title > .small > a {
  color: inherit;
}
.panel-footer {
  padding: 10px 15px;
  background-color: #f5f5f5;
  border-top: 1px solid #ddd;
  border-bottom-right-radius: 1px;
  border-bottom-left-radius: 1px;
}
.panel > .list-group,
.panel > .panel-collapse > .list-group {
  margin-bottom: 0;
```

```
}
.panel > .list-group .list-group-item,
.panel > .panel-collapse > .list-group .list-group-item {
  border-width: 1px 0;
  border-radius: 0;
}
.panel > .list-group:first-child .list-group-item:first-child,
.panel > .panel-collapse > .list-group:first-child .list-group-item:first-child {
  border-top: 0;
  border-top-right-radius: 1px;
  border-top-left-radius: 1px;
}
.panel > .list-group:last-child .list-group-item:last-child,
.panel > .panel-collapse > .list-group:last-child .list-group-item:last-child {
  border-bottom: 0;
  border-bottom-right-radius: 1px;
  border-bottom-left-radius: 1px;
}
.panel > .panel-heading + .panel-collapse > .list-group .list-group-item:first-child {
  border-top-right-radius: 0;
  border-top-left-radius: 0;
}
.panel-heading + .list-group .list-group-item:first-child {
  border-top-width: 0;
}
.list-group + .panel-footer {
  border-top-width: 0;
}
.panel > .table,
.panel > .table-responsive > .table,
.panel > .panel-collapse > .table {
  margin-bottom: 0;
}
.panel > .table caption,
.panel > .table-responsive > .table caption,
.panel > .panel-collapse > .table caption {
  padding-left: 15px;
  padding-right: 15px;
}
.panel > .table:first-child,
.panel > .table-responsive:first-child > .table:first-child {
  border-top-right-radius: 1px;
  border-top-left-radius: 1px;
}
.panel > .table:first-child > thead:first-child > tr:first-child,
.panel > .table-responsive:first-child > .table:first-child > thead:first-child > tr:first-child,
.panel > .table:first-child > tbody:first-child > tr:first-child,
.panel > .table-responsive:first-child > .table:first-child > tbody:first-child > tr:first-child {
  border-top-left-radius: 1px;
  border-top-right-radius: 1px;
}
.panel > .table:first-child > thead:first-child > tr:first-child td:first-child,
.panel > .table-responsive:first-child > .table:first-child > thead:first-child > tr:first-child
td:first-child,
.panel > .table:first-child > tbody:first-child > tr:first-child td:first-child,
.panel > .table-responsive:first-child > .table:first-child > tbody:first-child > tr:first-child
td:first-child,
.panel > .table:first-child > thead:first-child > tr:first-child th:first-child,
.panel > .table-responsive:first-child > .table:first-child > thead:first-child > tr:first-child
th:first-child,
.panel > .table:first-child > tbody:first-child > tr:first-child th:first-child,
.panel > .table-responsive:first-child > .table:first-child > tbody:first-child > tr:first-child
th:first-child {
  border-top-left-radius: 1px;
}
```

```
.panel > .table:first-child > thead:first-child > tr:first-child td:last-child,
.panel > .table-responsive:first-child > .table:first-child > thead:first-child > tr:first-child
td:last-child,
.panel > .table:first-child > tbody:first-child > tr:first-child td:last-child,
.panel > .table-responsive:first-child > .table:first-child > tbody:first-child > tr:first-child
td:last-child,
.panel > .table:first-child > thead:first-child > tr:first-child th:last-child,
.panel > .table-responsive:first-child > .table:first-child > thead:first-child > tr:first-child
th:last-child,
.panel > .table:first-child > tbody:first-child > tr:first-child th:last-child,
.panel > .table-responsive:first-child > .table:first-child > tbody:first-child > tr:first-child
th:last-child {
  border-top-right-radius: 1px;
}
.panel > .table:last-child,
.panel > .table-responsive:last-child > .table:last-child {
  border-bottom-right-radius: 1px;
  border-bottom-left-radius: 1px;
}
.panel > .table:last-child > tbody:last-child > tr:last-child,
.panel > .table-responsive:last-child > .table:last-child > tbody:last-child > tr:last-child,
.panel > .table:last-child > tfoot:last-child > tr:last-child,
.panel > .table-responsive:last-child > .table:last-child > tfoot:last-child > tr:last-child {
  border-bottom-left-radius: 1px;
  border-bottom-right-radius: 1px;
}
.panel > .table:last-child > tbody:last-child > tr:last-child td:first-child,
.panel > .table-responsive:last-child > .table:last-child > tbody:last-child > tr:last-child
td:first-child,
.panel > .table:last-child > tfoot:last-child > tr:last-child td:first-child,
.panel > .table-responsive:last-child > .table:last-child > tfoot:last-child > tr:last-child
td:first-child,
.panel > .table:last-child > tbody:last-child > tr:last-child th:first-child,
.panel > .table-responsive:last-child > .table:last-child > tbody:last-child > tr:last-child
th:first-child,
.panel > .table:last-child > tfoot:last-child > tr:last-child th:first-child,
.panel > .table-responsive:last-child > .table:last-child > tfoot:last-child > tr:last-child
th:first-child {
  border-bottom-left-radius: 1px;
}
.panel > .table:last-child > tbody:last-child > tr:last-child td:last-child,
.panel > .table-responsive:last-child > .table:last-child > tbody:last-child > tr:last-child td:last-
child,
.panel > .table:last-child > tfoot:last-child > tr:last-child td:last-child,
.panel > .table-responsive:last-child > .table:last-child > tfoot:last-child > tr:last-child td:last-
child,
.panel > .table:last-child > tbody:last-child > tr:last-child th:last-child,
.panel > .table-responsive:last-child > .table:last-child > tbody:last-child > tr:last-child th:last-
child,
.panel > .table:last-child > tfoot:last-child > tr:last-child th:last-child,
.panel > .table-responsive:last-child > .table:last-child > tfoot:last-child > tr:last-child th:last-
child {
  border-bottom-right-radius: 1px;
}
.panel > .panel-body + .table,
.panel > .panel-body + .table-responsive,
.panel > .table + .panel-body,
.panel > .table-responsive + .panel-body {
  border-top: 1px solid #ddd;
}
.panel > .table > tbody:first-child > tr:first-child th,
.panel > .table > tbody:first-child > tr:first-child td {
  border-top: 0;
}
.panel > .table-bordered,
```

```
.panel > .table-responsive > .table-bordered {
  border: 0;
}
.panel > .table-bordered > thead > tr > th:first-child,
.panel > .table-responsive > .table-bordered > thead > tr > th:first-child,
.panel > .table-bordered > tbody > tr > th:first-child,
.panel > .table-responsive > .table-bordered > tbody > tr > th:first-child,
.panel > .table-bordered > tfoot > tr > th:first-child,
.panel > .table-responsive > .table-bordered > tfoot > tr > th:first-child,
.panel > .table-bordered > thead > tr > td:first-child,
.panel > .table-responsive > .table-bordered > thead > tr > td:first-child,
.panel > .table-bordered > tbody > tr > td:first-child,
.panel > .table-responsive > .table-bordered > tbody > tr > td:first-child,
.panel > .table-bordered > tfoot > tr > td:first-child,
.panel > .table-responsive > .table-bordered > tfoot > tr > td:first-child {
  border-left: 0;
}
.panel > .table-bordered > thead > tr > th:last-child,
.panel > .table-responsive > .table-bordered > thead > tr > th:last-child,
.panel > .table-bordered > tbody > tr > th:last-child,
.panel > .table-responsive > .table-bordered > tbody > tr > th:last-child,
.panel > .table-bordered > tfoot > tr > th:last-child,
.panel > .table-responsive > .table-bordered > tfoot > tr > th:last-child,
.panel > .table-bordered > thead > tr > td:last-child,
.panel > .table-responsive > .table-bordered > thead > tr > td:last-child,
.panel > .table-bordered > tbody > tr > td:last-child,
.panel > .table-responsive > .table-bordered > tbody > tr > td:last-child,
.panel > .table-bordered > tfoot > tr > td:last-child,
.panel > .table-responsive > .table-bordered > tfoot > tr > td:last-child {
  border-right: 0;
}
.panel > .table-bordered > thead > tr:first-child > td,
.panel > .table-responsive > .table-bordered > thead > tr:first-child > td,
.panel > .table-bordered > tbody > tr:first-child > td,
.panel > .table-responsive > .table-bordered > tbody > tr:first-child > td,
.panel > .table-bordered > thead > tr:first-child > th,
.panel > .table-responsive > .table-bordered > thead > tr:first-child > th,
.panel > .table-bordered > tbody > tr:first-child > th,
.panel > .table-responsive > .table-bordered > tbody > tr:first-child > th {
  border-bottom: 0;
}
.panel > .table-bordered > tbody > tr:last-child > td,
.panel > .table-responsive > .table-bordered > tbody > tr:last-child > td,
.panel > .table-bordered > tfoot > tr:last-child > td,
.panel > .table-responsive > .table-bordered > tfoot > tr:last-child > td,
.panel > .table-bordered > tbody > tr:last-child > th,
.panel > .table-responsive > .table-bordered > tbody > tr:last-child > th,
.panel > .table-bordered > tfoot > tr:last-child > th,
.panel > .table-responsive > .table-bordered > tfoot > tr:last-child > th {
  border-bottom: 0;
}
.panel > .table-responsive {
  border: 0;
  margin-bottom: 0;
}
.panel-group {
  margin-bottom: 18px;
}
.panel-group .panel {
  margin-bottom: 0;
  border-radius: 2px;
}
.panel-group .panel + .panel {
  margin-top: 5px;
}
```

```
.panel-group .panel-heading {
  border-bottom: 0;
}
.panel-group .panel-heading + .panel-collapse > .panel-body,
.panel-group .panel-heading + .panel-collapse > .list-group {
  border-top: 1px solid #ddd;
}
.panel-group .panel-footer {
  border-top: 0;
}
.panel-group .panel-footer + .panel-collapse .panel-body {
  border-bottom: 1px solid #ddd;
}
.panel-default {
  border-color: #ddd;
}
.panel-default > .panel-heading {
  color: #333333;
  background-color: #f5f5f5;
  border-color: #ddd;
}
.panel-default > .panel-heading + .panel-collapse > .panel-body {
  border-top-color: #ddd;
}
.panel-default > .panel-heading .badge {
  color: #f5f5f5;
  background-color: #333333;
}
.panel-default > .panel-footer + .panel-collapse > .panel-body {
  border-bottom-color: #ddd;
}
.panel-primary {
  border-color: #337ab7;
}
.panel-primary > .panel-heading {
  color: #fff;
  background-color: #337ab7;
  border-color: #337ab7;
}
.panel-primary > .panel-heading + .panel-collapse > .panel-body {
  border-top-color: #337ab7;
}
.panel-primary > .panel-heading .badge {
  color: #337ab7;
  background-color: #fff;
}
.panel-primary > .panel-footer + .panel-collapse > .panel-body {
  border-bottom-color: #337ab7;
}
.panel-success {
  border-color: #d6e9c6;
}
.panel-success > .panel-heading {
  color: #3c763d;
  background-color: #dff0d8;
  border-color: #d6e9c6;
}
.panel-success > .panel-heading + .panel-collapse > .panel-body {
  border-top-color: #d6e9c6;
}
.panel-success > .panel-heading .badge {
  color: #dff0d8;
  background-color: #3c763d;
}
.panel-success > .panel-footer + .panel-collapse > .panel-body {
```

```
    border-bottom-color: #d6e9c6;
  }
  .panel-info {
    border-color: #bce8f1;
  }
  .panel-info > .panel-heading {
    color: #31708f;
    background-color: #d9edf7;
    border-color: #bce8f1;
  }
  .panel-info > .panel-heading + .panel-collapse > .panel-body {
    border-top-color: #bce8f1;
  }
  .panel-info > .panel-heading .badge {
    color: #d9edf7;
    background-color: #31708f;
  }
  .panel-info > .panel-footer + .panel-collapse > .panel-body {
    border-bottom-color: #bce8f1;
  }
  .panel-warning {
    border-color: #faebcc;
  }
  .panel-warning > .panel-heading {
    color: #8a6d3b;
    background-color: #fcf8e3;
    border-color: #faebcc;
  }
  .panel-warning > .panel-heading + .panel-collapse > .panel-body {
    border-top-color: #faebcc;
  }
  .panel-warning > .panel-heading .badge {
    color: #fcf8e3;
    background-color: #8a6d3b;
  }
  .panel-warning > .panel-footer + .panel-collapse > .panel-body {
    border-bottom-color: #faebcc;
  }
  .panel-danger {
    border-color: #ebccd1;
  }
  .panel-danger > .panel-heading {
    color: #a94442;
    background-color: #f2dede;
    border-color: #ebccd1;
  }
  .panel-danger > .panel-heading + .panel-collapse > .panel-body {
    border-top-color: #ebccd1;
  }
  .panel-danger > .panel-heading .badge {
    color: #f2dede;
    background-color: #a94442;
  }
  .panel-danger > .panel-footer + .panel-collapse > .panel-body {
    border-bottom-color: #ebccd1;
  }
  .embed-responsive {
    position: relative;
    display: block;
    height: 0;
    padding: 0;
    overflow: hidden;
  }
  .embed-responsive .embed-responsive-item,
  .embed-responsive iframe,
```

```
.embed-responsive embed,
.embed-responsive object,
.embed-responsive video {
  position: absolute;
  top: 0;
  left: 0;
  bottom: 0;
  height: 100%;
  width: 100%;
  border: 0;
}
.embed-responsive-16by9 {
  padding-bottom: 56.25%;
}
.embed-responsive-4by3 {
  padding-bottom: 75%;
}
.well {
  min-height: 20px;
  padding: 19px;
  margin-bottom: 20px;
  background-color: #f5f5f5;
  border: 1px solid #e3e3e3;
  border-radius: 2px;
  -webkit-box-shadow: inset 0 1px 1px rgba(0, 0, 0, 0.05);
  box-shadow: inset 0 1px 1px rgba(0, 0, 0, 0.05);
}
.well blockquote {
  border-color: #ddd;
  border-color: rgba(0, 0, 0, 0.15);
}
.well-lg {
  padding: 24px;
  border-radius: 3px;
}
.well-sm {
  padding: 9px;
  border-radius: 1px;
}
.close {
  float: right;
  font-size: 19.5px;
  font-weight: bold;
  line-height: 1;
  color: #000;
  text-shadow: 0 1px 0 #fff;
  opacity: 0.2;
  filter: alpha(opacity=20);
}
.close:hover,
.close:focus {
  color: #000;
  text-decoration: none;
  cursor: pointer;
  opacity: 0.5;
  filter: alpha(opacity=50);
}
button.close {
  padding: 0;
  cursor: pointer;
  background: transparent;
  border: 0;
  -webkit-appearance: none;
}
.modal-open {
```

```
    overflow: hidden;
  }
  .modal {
    display: none;
    overflow: hidden;
    position: fixed;
    top: 0;
    right: 0;
    bottom: 0;
    left: 0;
    z-index: 1050;
    -webkit-overflow-scrolling: touch;
    outline: 0;
  }
  .modal.fade .modal-dialog {
    -webkit-transform: translate(0, -25%);
    -ms-transform: translate(0, -25%);
    -o-transform: translate(0, -25%);
    transform: translate(0, -25%);
    -webkit-transition: -webkit-transform 0.3s ease-out;
    -moz-transition: -moz-transform 0.3s ease-out;
    -o-transition: -o-transform 0.3s ease-out;
    transition: transform 0.3s ease-out;
  }
  .modal.in .modal-dialog {
    -webkit-transform: translate(0, 0);
    -ms-transform: translate(0, 0);
    -o-transform: translate(0, 0);
    transform: translate(0, 0);
  }
  .modal-open .modal {
    overflow-x: hidden;
    overflow-y: auto;
  }
  .modal-dialog {
    position: relative;
    width: auto;
    margin: 10px;
  }
  .modal-content {
    position: relative;
    background-color: #fff;
    border: 1px solid #999;
    border: 1px solid rgba(0, 0, 0, 0.2);
    border-radius: 3px;
    -webkit-box-shadow: 0 3px 9px rgba(0, 0, 0, 0.5);
    box-shadow: 0 3px 9px rgba(0, 0, 0, 0.5);
    background-clip: padding-box;
    outline: 0;
  }
  .modal-backdrop {
    position: fixed;
    top: 0;
    right: 0;
    bottom: 0;
    left: 0;
    z-index: 1040;
    background-color: #000;
  }
  .modal-backdrop.fade {
    opacity: 0;
    filter: alpha(opacity=0);
  }
  .modal-backdrop.in {
    opacity: 0.5;
```

```
    filter: alpha(opacity=50);
  }
  .modal-header {
    padding: 15px;
    border-bottom: 1px solid #e5e5e5;
  }
  .modal-header .close {
    margin-top: -2px;
  }
  .modal-title {
    margin: 0;
    line-height: 1.42857143;
  }
  .modal-body {
    position: relative;
    padding: 15px;
  }
  .modal-footer {
    padding: 15px;
    text-align: right;
    border-top: 1px solid #e5e5e5;
  }
  .modal-footer .btn + .btn {
    margin-left: 5px;
    margin-bottom: 0;
  }
  .modal-footer .btn-group .btn + .btn {
    margin-left: -1px;
  }
  .modal-footer .btn-block + .btn-block {
    margin-left: 0;
  }
  .modal-scrollbar-measure {
    position: absolute;
    top: -9999px;
    width: 50px;
    height: 50px;
    overflow: scroll;
  }
  @media (min-width: 768px) {
    .modal-dialog {
      width: 600px;
      margin: 30px auto;
    }
    .modal-content {
      -webkit-box-shadow: 0 5px 15px rgba(0, 0, 0, 0.5);
      box-shadow: 0 5px 15px rgba(0, 0, 0, 0.5);
    }
    .modal-sm {
      width: 300px;
    }
  }
  @media (min-width: 992px) {
    .modal-lg {
      width: 900px;
    }
  }
  .tooltip {
    position: absolute;
    z-index: 1070;
    display: block;
    font-family: "Helvetica Neue", Helvetica, Arial, sans-serif;
    font-style: normal;
    font-weight: normal;
    letter-spacing: normal;
```

```
    line-break: auto;
    line-height: 1.42857143;
    text-align: left;
    text-align: start;
    text-decoration: none;
    text-shadow: none;
    text-transform: none;
    white-space: normal;
    word-break: normal;
    word-spacing: normal;
    word-wrap: normal;
    font-size: 12px;
    opacity: 0;
    filter: alpha(opacity=0);
  }
  .tooltip.in {
    opacity: 0.9;
    filter: alpha(opacity=90);
  }
  .tooltip.top {
    margin-top: -3px;
    padding: 5px 0;
  }
  .tooltip.right {
    margin-left: 3px;
    padding: 0 5px;
  }
  .tooltip.bottom {
    margin-top: 3px;
    padding: 5px 0;
  }
  .tooltip.left {
    margin-left: -3px;
    padding: 0 5px;
  }
  .tooltip-inner {
    max-width: 200px;
    padding: 3px 8px;
    color: #fff;
    text-align: center;
    background-color: #000;
    border-radius: 2px;
  }
  .tooltip-arrow {
    position: absolute;
    width: 0;
    height: 0;
    border-color: transparent;
    border-style: solid;
  }
  .tooltip.top .tooltip-arrow {
    bottom: 0;
    left: 50%;
    margin-left: -5px;
    border-width: 5px 5px 0;
    border-top-color: #000;
  }
  .tooltip.top-left .tooltip-arrow {
    bottom: 0;
    right: 5px;
    margin-bottom: -5px;
    border-width: 5px 5px 0;
    border-top-color: #000;
  }
  .tooltip.top-right .tooltip-arrow {
```

```
    bottom: 0;
    left: 5px;
    margin-bottom: -5px;
    border-width: 5px 5px 0;
    border-top-color: #000;
  }
  .tooltip.right .tooltip-arrow {
    top: 50%;
    left: 0;
    margin-top: -5px;
    border-width: 5px 5px 5px 0;
    border-right-color: #000;
  }
  .tooltip.left .tooltip-arrow {
    top: 50%;
    right: 0;
    margin-top: -5px;
    border-width: 5px 0 5px 5px;
    border-left-color: #000;
  }
  .tooltip.bottom .tooltip-arrow {
    top: 0;
    left: 50%;
    margin-left: -5px;
    border-width: 0 5px 5px;
    border-bottom-color: #000;
  }
  .tooltip.bottom-left .tooltip-arrow {
    top: 0;
    right: 5px;
    margin-top: -5px;
    border-width: 0 5px 5px;
    border-bottom-color: #000;
  }
  .tooltip.bottom-right .tooltip-arrow {
    top: 0;
    left: 5px;
    margin-top: -5px;
    border-width: 0 5px 5px;
    border-bottom-color: #000;
  }
  .popover {
    position: absolute;
    top: 0;
    left: 0;
    z-index: 1060;
    display: none;
    max-width: 276px;
    padding: 1px;
    font-family: "Helvetica Neue", Helvetica, Arial, sans-serif;
    font-style: normal;
    font-weight: normal;
    letter-spacing: normal;
    line-break: auto;
    line-height: 1.42857143;
    text-align: left;
    text-align: start;
    text-decoration: none;
    text-shadow: none;
    text-transform: none;
    white-space: normal;
    word-break: normal;
    word-spacing: normal;
    word-wrap: normal;
    font-size: 13px;
```

```
    background-color: #fff;
    background-clip: padding-box;
    border: 1px solid #ccc;
    border: 1px solid rgba(0, 0, 0, 0.2);
    border-radius: 3px;
    -webkit-box-shadow: 0 5px 10px rgba(0, 0, 0, 0.2);
    box-shadow: 0 5px 10px rgba(0, 0, 0, 0.2);
  }
  .popover.top {
    margin-top: -10px;
  }
  .popover.right {
    margin-left: 10px;
  }
  .popover.bottom {
    margin-top: 10px;
  }
  .popover.left {
    margin-left: -10px;
  }
  .popover-title {
    margin: 0;
    padding: 8px 14px;
    font-size: 13px;
    background-color: #f7f7f7;
    border-bottom: 1px solid #ebebeb;
    border-radius: 2px 2px 0 0;
  }
  .popover-content {
    padding: 9px 14px;
  }
  .popover > .arrow,
  .popover > .arrow:after {
    position: absolute;
    display: block;
    width: 0;
    height: 0;
    border-color: transparent;
    border-style: solid;
  }
  .popover > .arrow {
    border-width: 11px;
  }
  .popover > .arrow:after {
    border-width: 10px;
    content: "";
  }
  .popover.top > .arrow {
    left: 50%;
    margin-left: -11px;
    border-bottom-width: 0;
    border-top-color: #999999;
    border-top-color: rgba(0, 0, 0, 0.25);
    bottom: -11px;
  }
  .popover.top > .arrow:after {
    content: " ";
    bottom: 1px;
    margin-left: -10px;
    border-bottom-width: 0;
    border-top-color: #fff;
  }
  .popover.right > .arrow {
    top: 50%;
    left: -11px;
```

```
    margin-top: -11px;
    border-left-width: 0;
    border-right-color: #999999;
    border-right-color: rgba(0, 0, 0, 0.25);
  }
  .popover.right > .arrow:after {
    content: " ";
    left: 1px;
    bottom: -10px;
    border-left-width: 0;
    border-right-color: #fff;
  }
  .popover.bottom > .arrow {
    left: 50%;
    margin-left: -11px;
    border-top-width: 0;
    border-bottom-color: #999999;
    border-bottom-color: rgba(0, 0, 0, 0.25);
    top: -11px;
  }
  .popover.bottom > .arrow:after {
    content: " ";
    top: 1px;
    margin-left: -10px;
    border-top-width: 0;
    border-bottom-color: #fff;
  }
  .popover.left > .arrow {
    top: 50%;
    right: -11px;
    margin-top: -11px;
    border-right-width: 0;
    border-left-color: #999999;
    border-left-color: rgba(0, 0, 0, 0.25);
  }
  .popover.left > .arrow:after {
    content: " ";
    right: 1px;
    border-right-width: 0;
    border-left-color: #fff;
    bottom: -10px;
  }
  .carousel {
    position: relative;
  }
  .carousel-inner {
    position: relative;
    overflow: hidden;
    width: 100%;
  }
  .carousel-inner > .item {
    display: none;
    position: relative;
    -webkit-transition: 0.6s ease-in-out left;
    -o-transition: 0.6s ease-in-out left;
    transition: 0.6s ease-in-out left;
  }
  .carousel-inner > .item > img,
  .carousel-inner > .item > a > img {
    line-height: 1;
  }
  @media all and (transform-3d), (-webkit-transform-3d) {
    .carousel-inner > .item {
      -webkit-transition: -webkit-transform 0.6s ease-in-out;
      -moz-transition: -moz-transform 0.6s ease-in-out;
```

```
      -o-transition: -o-transform 0.6s ease-in-out;
      transition: transform 0.6s ease-in-out;
      -webkit-backface-visibility: hidden;
      -moz-backface-visibility: hidden;
      backface-visibility: hidden;
      -webkit-perspective: 1000px;
      -moz-perspective: 1000px;
      perspective: 1000px;
    }
    .carousel-inner > .item.next,
    .carousel-inner > .item.active.right {
      -webkit-transform: translate3d(100%, 0, 0);
      transform: translate3d(100%, 0, 0);
      left: 0;
    }
    .carousel-inner > .item.prev,
    .carousel-inner > .item.active.left {
      -webkit-transform: translate3d(-100%, 0, 0);
      transform: translate3d(-100%, 0, 0);
      left: 0;
    }
    .carousel-inner > .item.next.left,
    .carousel-inner > .item.prev.right,
    .carousel-inner > .item.active {
      -webkit-transform: translate3d(0, 0, 0);
      transform: translate3d(0, 0, 0);
      left: 0;
    }
  }
  .carousel-inner > .active,
  .carousel-inner > .next,
  .carousel-inner > .prev {
    display: block;
  }
  .carousel-inner > .active {
    left: 0;
  }
  .carousel-inner > .next,
  .carousel-inner > .prev {
    position: absolute;
    top: 0;
    width: 100%;
  }
  .carousel-inner > .next {
    left: 100%;
  }
  .carousel-inner > .prev {
    left: -100%;
  }
  .carousel-inner > .next.left,
  .carousel-inner > .prev.right {
    left: 0;
  }
  .carousel-inner > .active.left {
    left: -100%;
  }
  .carousel-inner > .active.right {
    left: 100%;
  }
  .carousel-control {
    position: absolute;
    top: 0;
    left: 0;
    bottom: 0;
    width: 15%;
```

```
  opacity: 0.5;
  filter: alpha(opacity=50);
  font-size: 20px;
  color: #fff;
  text-align: center;
  text-shadow: 0 1px 2px rgba(0, 0, 0, 0.6);
  background-color: rgba(0, 0, 0, 0);
}
.carousel-control.left {
  background-image: -webkit-linear-gradient(left, rgba(0, 0, 0, 0.5) 0%, rgba(0, 0, 0, 0.0001) 100%);
  background-image: -o-linear-gradient(left, rgba(0, 0, 0, 0.5) 0%, rgba(0, 0, 0, 0.0001) 100%);
  background-image: linear-gradient(to right, rgba(0, 0, 0, 0.5) 0%, rgba(0, 0, 0, 0.0001) 100%);
  background-repeat: repeat-x;
  filter: progid:DXImageTransform.Microsoft.gradient(startColorstr='#80000000',
endColorstr='#00000000', GradientType=1);
}
.carousel-control.right {
  left: auto;
  right: 0;
  background-image: -webkit-linear-gradient(left, rgba(0, 0, 0, 0.0001) 0%, rgba(0, 0, 0, 0.5) 100%);
  background-image: -o-linear-gradient(left, rgba(0, 0, 0, 0.0001) 0%, rgba(0, 0, 0, 0.5) 100%);
  background-image: linear-gradient(to right, rgba(0, 0, 0, 0.0001) 0%, rgba(0, 0, 0, 0.5) 100%);
  background-repeat: repeat-x;
  filter: progid:DXImageTransform.Microsoft.gradient(startColorstr='#00000000',
endColorstr='#80000000', GradientType=1);
}
.carousel-control:hover,
.carousel-control:focus {
  outline: 0;
  color: #fff;
  text-decoration: none;
  opacity: 0.9;
  filter: alpha(opacity=90);
}
.carousel-control .icon-prev,
.carousel-control .icon-next,
.carousel-control .glyphicon-chevron-left,
.carousel-control .glyphicon-chevron-right {
  position: absolute;
  top: 50%;
  margin-top: -10px;
  z-index: 5;
  display: inline-block;
}
.carousel-control .icon-prev,
.carousel-control .glyphicon-chevron-left {
  left: 50%;
  margin-left: -10px;
}
.carousel-control .icon-next,
.carousel-control .glyphicon-chevron-right {
  right: 50%;
  margin-right: -10px;
}
.carousel-control .icon-prev,
.carousel-control .icon-next {
  width: 20px;
  height: 20px;
  line-height: 1;
  font-family: serif;
}
.carousel-control .icon-prev:before {
  content: '\2039';
}
.carousel-control .icon-next:before {
```

```
    content: '\203a';
  }
  .carousel-indicators {
    position: absolute;
    bottom: 10px;
    left: 50%;
    z-index: 15;
    width: 60%;
    margin-left: -30%;
    padding-left: 0;
    list-style: none;
    text-align: center;
  }
  .carousel-indicators li {
    display: inline-block;
    width: 10px;
    height: 10px;
    margin: 1px;
    text-indent: -999px;
    border: 1px solid #fff;
    border-radius: 10px;
    cursor: pointer;
    background-color: #000 \9;
    background-color: rgba(0, 0, 0, 0);
  }
  .carousel-indicators .active {
    margin: 0;
    width: 12px;
    height: 12px;
    background-color: #fff;
  }
  .carousel-caption {
    position: absolute;
    left: 15%;
    right: 15%;
    bottom: 20px;
    z-index: 10;
    padding-top: 20px;
    padding-bottom: 20px;
    color: #fff;
    text-align: center;
    text-shadow: 0 1px 2px rgba(0, 0, 0, 0.6);
  }
  .carousel-caption .btn {
    text-shadow: none;
  }
  @media screen and (min-width: 768px) {
    .carousel-control .glyphicon-chevron-left,
    .carousel-control .glyphicon-chevron-right,
    .carousel-control .icon-prev,
    .carousel-control .icon-next {
      width: 30px;
      height: 30px;
      margin-top: -10px;
      font-size: 30px;
    }
    .carousel-control .glyphicon-chevron-left,
    .carousel-control .icon-prev {
      margin-left: -10px;
    }
    .carousel-control .glyphicon-chevron-right,
    .carousel-control .icon-next {
      margin-right: -10px;
    }
    .carousel-caption {
```

```
      left: 20%;
      right: 20%;
      padding-bottom: 30px;
    }
    .carousel-indicators {
      bottom: 20px;
    }
  }
  .clearfix:before,
  .clearfix:after,
  .dl-horizontal dd:before,
  .dl-horizontal dd:after,
  .container:before,
  .container:after,
  .container-fluid:before,
  .container-fluid:after,
  .row:before,
  .row:after,
  .form-horizontal .form-group:before,
  .form-horizontal .form-group:after,
  .btn-toolbar:before,
  .btn-toolbar:after,
  .btn-group-vertical > .btn-group:before,
  .btn-group-vertical > .btn-group:after,
  .nav:before,
  .nav:after,
  .navbar:before,
  .navbar:after,
  .navbar-header:before,
  .navbar-header:after,
  .navbar-collapse:before,
  .navbar-collapse:after,
  .pager:before,
  .pager:after,
  .panel-body:before,
  .panel-body:after,
  .modal-header:before,
  .modal-header:after,
  .modal-footer:before,
  .modal-footer:after,
  .item_buttons:before,
  .item_buttons:after {
    content: " ";
    display: table;
  }
  .clearfix:after,
  .dl-horizontal dd:after,
  .container:after,
  .container-fluid:after,
  .row:after,
  .form-horizontal .form-group:after,
  .btn-toolbar:after,
  .btn-group-vertical > .btn-group:after,
  .nav:after,
  .navbar:after,
  .navbar-header:after,
  .navbar-collapse:after,
  .pager:after,
  .panel-body:after,
  .modal-header:after,
  .modal-footer:after,
  .item_buttons:after {
    clear: both;
  }
  .center-block {
```

```
    display: block;
    margin-left: auto;
    margin-right: auto;
  }
  .pull-right {
    float: right !important;
  }
  .pull-left {
    float: left !important;
  }
  .hide {
    display: none !important;
  }
  .show {
    display: block !important;
  }
  .invisible {
    visibility: hidden;
  }
  .text-hide {
    font: 0/0 a;
    color: transparent;
    text-shadow: none;
    background-color: transparent;
    border: 0;
  }
  .hidden {
    display: none !important;
  }
  .affix {
    position: fixed;
  }
  @-ms-viewport {
    width: device-width;
  }
  .visible-xs,
  .visible-sm,
  .visible-md,
  .visible-lg {
    display: none !important;
  }
  .visible-xs-block,
  .visible-xs-inline,
  .visible-xs-inline-block,
  .visible-sm-block,
  .visible-sm-inline,
  .visible-sm-inline-block,
  .visible-md-block,
  .visible-md-inline,
  .visible-md-inline-block,
  .visible-lg-block,
  .visible-lg-inline,
  .visible-lg-inline-block {
    display: none !important;
  }
  @media (max-width: 767px) {
    .visible-xs {
      display: block !important;
    }
    table.visible-xs {
      display: table !important;
    }
    tr.visible-xs {
      display: table-row !important;
    }
```

```
    th.visible-xs,
    td.visible-xs {
      display: table-cell !important;
    }
  }
  @media (max-width: 767px) {
    .visible-xs-block {
      display: block !important;
    }
  }
  @media (max-width: 767px) {
    .visible-xs-inline {
      display: inline !important;
    }
  }
  @media (max-width: 767px) {
    .visible-xs-inline-block {
      display: inline-block !important;
    }
  }
  @media (min-width: 768px) and (max-width: 991px) {
    .visible-sm {
      display: block !important;
    }
    table.visible-sm {
      display: table !important;
    }
    tr.visible-sm {
      display: table-row !important;
    }
    th.visible-sm,
    td.visible-sm {
      display: table-cell !important;
    }
  }
  @media (min-width: 768px) and (max-width: 991px) {
    .visible-sm-block {
      display: block !important;
    }
  }
  @media (min-width: 768px) and (max-width: 991px) {
    .visible-sm-inline {
      display: inline !important;
    }
  }
  @media (min-width: 768px) and (max-width: 991px) {
    .visible-sm-inline-block {
      display: inline-block !important;
    }
  }
  @media (min-width: 992px) and (max-width: 1199px) {
    .visible-md {
      display: block !important;
    }
    table.visible-md {
      display: table !important;
    }
    tr.visible-md {
      display: table-row !important;
    }
    th.visible-md,
    td.visible-md {
      display: table-cell !important;
    }
  }
```

```
@media (min-width: 992px) and (max-width: 1199px) {
  .visible-md-block {
    display: block !important;
  }
}
@media (min-width: 992px) and (max-width: 1199px) {
  .visible-md-inline {
    display: inline !important;
  }
}
@media (min-width: 992px) and (max-width: 1199px) {
  .visible-md-inline-block {
    display: inline-block !important;
  }
}
@media (min-width: 1200px) {
  .visible-lg {
    display: block !important;
  }
  table.visible-lg {
    display: table !important;
  }
  tr.visible-lg {
    display: table-row !important;
  }
  th.visible-lg,
  td.visible-lg {
    display: table-cell !important;
  }
}
@media (min-width: 1200px) {
  .visible-lg-block {
    display: block !important;
  }
}
@media (min-width: 1200px) {
  .visible-lg-inline {
    display: inline !important;
  }
}
@media (min-width: 1200px) {
  .visible-lg-inline-block {
    display: inline-block !important;
  }
}
@media (max-width: 767px) {
  .hidden-xs {
    display: none !important;
  }
}
@media (min-width: 768px) and (max-width: 991px) {
  .hidden-sm {
    display: none !important;
  }
}
@media (min-width: 992px) and (max-width: 1199px) {
  .hidden-md {
    display: none !important;
  }
}
@media (min-width: 1200px) {
  .hidden-lg {
    display: none !important;
  }
}
```

```
.visible-print {
  display: none !important;
}
@media print {
  .visible-print {
    display: block !important;
  }
  table.visible-print {
    display: table !important;
  }
  tr.visible-print {
    display: table-row !important;
  }
  th.visible-print,
  td.visible-print {
    display: table-cell !important;
  }
}
.visible-print-block {
  display: none !important;
}
@media print {
  .visible-print-block {
    display: block !important;
  }
}
.visible-print-inline {
  display: none !important;
}
@media print {
  .visible-print-inline {
    display: inline !important;
  }
}
.visible-print-inline-block {
  display: none !important;
}
@media print {
  .visible-print-inline-block {
    display: inline-block !important;
  }
}
@media print {
  .hidden-print {
    display: none !important;
  }
}
/*!
*
* Font Awesome
*
*/
/*!
 *  Font Awesome 4.7.0 by @davegandy - http://fontawesome.io - @fontawesome
 *  License - http://fontawesome.io/license (Font: SIL OFL 1.1, CSS: MIT License)
 */
/* FONT PATH
 * -------------------------- */
@font-face {
  font-family: 'FontAwesome';
  src: url('../components/font-awesome/fonts/fontawesome-webfont.eot?v=4.7.0');
  src: url('../components/font-awesome/fonts/fontawesome-webfont.eot?#iefix&v=4.7.0')
format('embedded-opentype'), url('../components/font-awesome/fonts/fontawesome-webfont.woff2?
v=4.7.0') format('woff2'), url('../components/font-awesome/fonts/fontawesome-webfont.woff?v=4.7.0')
format('woff'), url('../components/font-awesome/fonts/fontawesome-webfont.ttf?v=4.7.0')
```

```
format('truetype'), url('../components/font-awesome/fonts/fontawesome-webfont.svg?
v=4.7.0#fontawesomeregular') format('svg');
  font-weight: normal;
  font-style: normal;
}
.fa {
  display: inline-block;
  font: normal normal normal 14px/1 FontAwesome;
  font-size: inherit;
  text-rendering: auto;
  -webkit-font-smoothing: antialiased;
  -moz-osx-font-smoothing: grayscale;
}
/* makes the font 33% larger relative to the icon container */
.fa-lg {
  font-size: 1.33333333em;
  line-height: 0.75em;
  vertical-align: -15%;
}
.fa-2x {
  font-size: 2em;
}
.fa-3x {
  font-size: 3em;
}
.fa-4x {
  font-size: 4em;
}
.fa-5x {
  font-size: 5em;
}
.fa-fw {
  width: 1.28571429em;
  text-align: center;
}
.fa-ul {
  padding-left: 0;
  margin-left: 2.14285714em;
  list-style-type: none;
}
.fa-ul > li {
  position: relative;
}
.fa-li {
  position: absolute;
  left: -2.14285714em;
  width: 2.14285714em;
  top: 0.14285714em;
  text-align: center;
}
.fa-li.fa-lg {
  left: -1.85714286em;
}
.fa-border {
  padding: .2em .25em .15em;
  border: solid 0.08em #eee;
  border-radius: .1em;
}
.fa-pull-left {
  float: left;
}
.fa-pull-right {
  float: right;
}
.fa.fa-pull-left {
```

```
    margin-right: .3em;
  }
  .fa.fa-pull-right {
    margin-left: .3em;
  }
  /* Deprecated as of 4.4.0 */
  .pull-right {
    float: right;
  }
  .pull-left {
    float: left;
  }
  .fa.pull-left {
    margin-right: .3em;
  }
  .fa.pull-right {
    margin-left: .3em;
  }
  .fa-spin {
    -webkit-animation: fa-spin 2s infinite linear;
    animation: fa-spin 2s infinite linear;
  }
  .fa-pulse {
    -webkit-animation: fa-spin 1s infinite steps(8);
    animation: fa-spin 1s infinite steps(8);
  }
  @-webkit-keyframes fa-spin {
    0% {
      -webkit-transform: rotate(0deg);
      transform: rotate(0deg);
    }
    100% {
      -webkit-transform: rotate(359deg);
      transform: rotate(359deg);
    }
  }
  @keyframes fa-spin {
    0% {
      -webkit-transform: rotate(0deg);
      transform: rotate(0deg);
    }
    100% {
      -webkit-transform: rotate(359deg);
      transform: rotate(359deg);
    }
  }
  .fa-rotate-90 {
    -ms-filter: "progid:DXImageTransform.Microsoft.BasicImage(rotation=1)";
    -webkit-transform: rotate(90deg);
    -ms-transform: rotate(90deg);
    transform: rotate(90deg);
  }
  .fa-rotate-180 {
    -ms-filter: "progid:DXImageTransform.Microsoft.BasicImage(rotation=2)";
    -webkit-transform: rotate(180deg);
    -ms-transform: rotate(180deg);
    transform: rotate(180deg);
  }
  .fa-rotate-270 {
    -ms-filter: "progid:DXImageTransform.Microsoft.BasicImage(rotation=3)";
    -webkit-transform: rotate(270deg);
    -ms-transform: rotate(270deg);
    transform: rotate(270deg);
  }
  .fa-flip-horizontal {
```

```
    -ms-filter: "progid:DXImageTransform.Microsoft.BasicImage(rotation=0, mirror=1)";
    -webkit-transform: scale(-1, 1);
    -ms-transform: scale(-1, 1);
    transform: scale(-1, 1);
  }
  .fa-flip-vertical {
    -ms-filter: "progid:DXImageTransform.Microsoft.BasicImage(rotation=2, mirror=1)";
    -webkit-transform: scale(1, -1);
    -ms-transform: scale(1, -1);
    transform: scale(1, -1);
  }
  :root .fa-rotate-90,
  :root .fa-rotate-180,
  :root .fa-rotate-270,
  :root .fa-flip-horizontal,
  :root .fa-flip-vertical {
    filter: none;
  }
  .fa-stack {
    position: relative;
    display: inline-block;
    width: 2em;
    height: 2em;
    line-height: 2em;
    vertical-align: middle;
  }
  .fa-stack-1x,
  .fa-stack-2x {
    position: absolute;
    left: 0;
    width: 100%;
    text-align: center;
  }
  .fa-stack-1x {
    line-height: inherit;
  }
  .fa-stack-2x {
    font-size: 2em;
  }
  .fa-inverse {
    color: #fff;
  }
  /* Font Awesome uses the Unicode Private Use Area (PUA) to ensure screen
     readers do not read off random characters that represent icons */
  .fa-glass:before {
    content: "\f000";
  }
  .fa-music:before {
    content: "\f001";
  }
  .fa-search:before {
    content: "\f002";
  }
  .fa-envelope-o:before {
    content: "\f003";
  }
  .fa-heart:before {
    content: "\f004";
  }
  .fa-star:before {
    content: "\f005";
  }
  .fa-star-o:before {
    content: "\f006";
  }
```

```
.fa-user:before {
  content: "\f007";
}
.fa-film:before {
  content: "\f008";
}
.fa-th-large:before {
  content: "\f009";
}
.fa-th:before {
  content: "\f00a";
}
.fa-th-list:before {
  content: "\f00b";
}
.fa-check:before {
  content: "\f00c";
}
.fa-remove:before,
.fa-close:before,
.fa-times:before {
  content: "\f00d";
}
.fa-search-plus:before {
  content: "\f00e";
}
.fa-search-minus:before {
  content: "\f010";
}
.fa-power-off:before {
  content: "\f011";
}
.fa-signal:before {
  content: "\f012";
}
.fa-gear:before,
.fa-cog:before {
  content: "\f013";
}
.fa-trash-o:before {
  content: "\f014";
}
.fa-home:before {
  content: "\f015";
}
.fa-file-o:before {
  content: "\f016";
}
.fa-clock-o:before {
  content: "\f017";
}
.fa-road:before {
  content: "\f018";
}
.fa-download:before {
  content: "\f019";
}
.fa-arrow-circle-o-down:before {
  content: "\f01a";
}
.fa-arrow-circle-o-up:before {
  content: "\f01b";
}
.fa-inbox:before {
  content: "\f01c";
```

```
}
.fa-play-circle-o:before {
  content: "\f01d";
}
.fa-rotate-right:before,
.fa-repeat:before {
  content: "\f01e";
}
.fa-refresh:before {
  content: "\f021";
}
.fa-list-alt:before {
  content: "\f022";
}
.fa-lock:before {
  content: "\f023";
}
.fa-flag:before {
  content: "\f024";
}
.fa-headphones:before {
  content: "\f025";
}
.fa-volume-off:before {
  content: "\f026";
}
.fa-volume-down:before {
  content: "\f027";
}
.fa-volume-up:before {
  content: "\f028";
}
.fa-qrcode:before {
  content: "\f029";
}
.fa-barcode:before {
  content: "\f02a";
}
.fa-tag:before {
  content: "\f02b";
}
.fa-tags:before {
  content: "\f02c";
}
.fa-book:before {
  content: "\f02d";
}
.fa-bookmark:before {
  content: "\f02e";
}
.fa-print:before {
  content: "\f02f";
}
.fa-camera:before {
  content: "\f030";
}
.fa-font:before {
  content: "\f031";
}
.fa-bold:before {
  content: "\f032";
}
.fa-italic:before {
  content: "\f033";
}
```

```
.fa-text-height:before {
  content: "\f034";
}
.fa-text-width:before {
  content: "\f035";
}
.fa-align-left:before {
  content: "\f036";
}
.fa-align-center:before {
  content: "\f037";
}
.fa-align-right:before {
  content: "\f038";
}
.fa-align-justify:before {
  content: "\f039";
}
.fa-list:before {
  content: "\f03a";
}
.fa-dedent:before,
.fa-outdent:before {
  content: "\f03b";
}
.fa-indent:before {
  content: "\f03c";
}
.fa-video-camera:before {
  content: "\f03d";
}
.fa-photo:before,
.fa-image:before,
.fa-picture-o:before {
  content: "\f03e";
}
.fa-pencil:before {
  content: "\f040";
}
.fa-map-marker:before {
  content: "\f041";
}
.fa-adjust:before {
  content: "\f042";
}
.fa-tint:before {
  content: "\f043";
}
.fa-edit:before,
.fa-pencil-square-o:before {
  content: "\f044";
}
.fa-share-square-o:before {
  content: "\f045";
}
.fa-check-square-o:before {
  content: "\f046";
}
.fa-arrows:before {
  content: "\f047";
}
.fa-step-backward:before {
  content: "\f048";
}
.fa-fast-backward:before {
```

```
    content: "\f049";
  }
  .fa-backward:before {
    content: "\f04a";
  }
  .fa-play:before {
    content: "\f04b";
  }
  .fa-pause:before {
    content: "\f04c";
  }
  .fa-stop:before {
    content: "\f04d";
  }
  .fa-forward:before {
    content: "\f04e";
  }
  .fa-fast-forward:before {
    content: "\f050";
  }
  .fa-step-forward:before {
    content: "\f051";
  }
  .fa-eject:before {
    content: "\f052";
  }
  .fa-chevron-left:before {
    content: "\f053";
  }
  .fa-chevron-right:before {
    content: "\f054";
  }
  .fa-plus-circle:before {
    content: "\f055";
  }
  .fa-minus-circle:before {
    content: "\f056";
  }
  .fa-times-circle:before {
    content: "\f057";
  }
  .fa-check-circle:before {
    content: "\f058";
  }
  .fa-question-circle:before {
    content: "\f059";
  }
  .fa-info-circle:before {
    content: "\f05a";
  }
  .fa-crosshairs:before {
    content: "\f05b";
  }
  .fa-times-circle-o:before {
    content: "\f05c";
  }
  .fa-check-circle-o:before {
    content: "\f05d";
  }
  .fa-ban:before {
    content: "\f05e";
  }
  .fa-arrow-left:before {
    content: "\f060";
  }
```

```
.fa-arrow-right:before {
  content: "\f061";
}
.fa-arrow-up:before {
  content: "\f062";
}
.fa-arrow-down:before {
  content: "\f063";
}
.fa-mail-forward:before,
.fa-share:before {
  content: "\f064";
}
.fa-expand:before {
  content: "\f065";
}
.fa-compress:before {
  content: "\f066";
}
.fa-plus:before {
  content: "\f067";
}
.fa-minus:before {
  content: "\f068";
}
.fa-asterisk:before {
  content: "\f069";
}
.fa-exclamation-circle:before {
  content: "\f06a";
}
.fa-gift:before {
  content: "\f06b";
}
.fa-leaf:before {
  content: "\f06c";
}
.fa-fire:before {
  content: "\f06d";
}
.fa-eye:before {
  content: "\f06e";
}
.fa-eye-slash:before {
  content: "\f070";
}
.fa-warning:before,
.fa-exclamation-triangle:before {
  content: "\f071";
}
.fa-plane:before {
  content: "\f072";
}
.fa-calendar:before {
  content: "\f073";
}
.fa-random:before {
  content: "\f074";
}
.fa-comment:before {
  content: "\f075";
}
.fa-magnet:before {
  content: "\f076";
}
```

```
.fa-chevron-up:before {
  content: "\f077";
}
.fa-chevron-down:before {
  content: "\f078";
}
.fa-retweet:before {
  content: "\f079";
}
.fa-shopping-cart:before {
  content: "\f07a";
}
.fa-folder:before {
  content: "\f07b";
}
.fa-folder-open:before {
  content: "\f07c";
}
.fa-arrows-v:before {
  content: "\f07d";
}
.fa-arrows-h:before {
  content: "\f07e";
}
.fa-bar-chart-o:before,
.fa-bar-chart:before {
  content: "\f080";
}
.fa-twitter-square:before {
  content: "\f081";
}
.fa-facebook-square:before {
  content: "\f082";
}
.fa-camera-retro:before {
  content: "\f083";
}
.fa-key:before {
  content: "\f084";
}
.fa-gears:before,
.fa-cogs:before {
  content: "\f085";
}
.fa-comments:before {
  content: "\f086";
}
.fa-thumbs-o-up:before {
  content: "\f087";
}
.fa-thumbs-o-down:before {
  content: "\f088";
}
.fa-star-half:before {
  content: "\f089";
}
.fa-heart-o:before {
  content: "\f08a";
}
.fa-sign-out:before {
  content: "\f08b";
}
.fa-linkedin-square:before {
  content: "\f08c";
}
```

```
.fa-thumb-tack:before {
  content: "\f08d";
}
.fa-external-link:before {
  content: "\f08e";
}
.fa-sign-in:before {
  content: "\f090";
}
.fa-trophy:before {
  content: "\f091";
}
.fa-github-square:before {
  content: "\f092";
}
.fa-upload:before {
  content: "\f093";
}
.fa-lemon-o:before {
  content: "\f094";
}
.fa-phone:before {
  content: "\f095";
}
.fa-square-o:before {
  content: "\f096";
}
.fa-bookmark-o:before {
  content: "\f097";
}
.fa-phone-square:before {
  content: "\f098";
}
.fa-twitter:before {
  content: "\f099";
}
.fa-facebook-f:before,
.fa-facebook:before {
  content: "\f09a";
}
.fa-github:before {
  content: "\f09b";
}
.fa-unlock:before {
  content: "\f09c";
}
.fa-credit-card:before {
  content: "\f09d";
}
.fa-feed:before,
.fa-rss:before {
  content: "\f09e";
}
.fa-hdd-o:before {
  content: "\f0a0";
}
.fa-bullhorn:before {
  content: "\f0a1";
}
.fa-bell:before {
  content: "\f0f3";
}
.fa-certificate:before {
  content: "\f0a3";
}
```

```
.fa-hand-o-right:before {
  content: "\f0a4";
}
.fa-hand-o-left:before {
  content: "\f0a5";
}
.fa-hand-o-up:before {
  content: "\f0a6";
}
.fa-hand-o-down:before {
  content: "\f0a7";
}
.fa-arrow-circle-left:before {
  content: "\f0a8";
}
.fa-arrow-circle-right:before {
  content: "\f0a9";
}
.fa-arrow-circle-up:before {
  content: "\f0aa";
}
.fa-arrow-circle-down:before {
  content: "\f0ab";
}
.fa-globe:before {
  content: "\f0ac";
}
.fa-wrench:before {
  content: "\f0ad";
}
.fa-tasks:before {
  content: "\f0ae";
}
.fa-filter:before {
  content: "\f0b0";
}
.fa-briefcase:before {
  content: "\f0b1";
}
.fa-arrows-alt:before {
  content: "\f0b2";
}
.fa-group:before,
.fa-users:before {
  content: "\f0c0";
}
.fa-chain:before,
.fa-link:before {
  content: "\f0c1";
}
.fa-cloud:before {
  content: "\f0c2";
}
.fa-flask:before {
  content: "\f0c3";
}
.fa-cut:before,
.fa-scissors:before {
  content: "\f0c4";
}
.fa-copy:before,
.fa-files-o:before {
  content: "\f0c5";
}
.fa-paperclip:before {
```

```
    content: "\f0c6";
  }
  .fa-save:before,
  .fa-floppy-o:before {
    content: "\f0c7";
  }
  .fa-square:before {
    content: "\f0c8";
  }
  .fa-navicon:before,
  .fa-reorder:before,
  .fa-bars:before {
    content: "\f0c9";
  }
  .fa-list-ul:before {
    content: "\f0ca";
  }
  .fa-list-ol:before {
    content: "\f0cb";
  }
  .fa-strikethrough:before {
    content: "\f0cc";
  }
  .fa-underline:before {
    content: "\f0cd";
  }
  .fa-table:before {
    content: "\f0ce";
  }
  .fa-magic:before {
    content: "\f0d0";
  }
  .fa-truck:before {
    content: "\f0d1";
  }
  .fa-pinterest:before {
    content: "\f0d2";
  }
  .fa-pinterest-square:before {
    content: "\f0d3";
  }
  .fa-google-plus-square:before {
    content: "\f0d4";
  }
  .fa-google-plus:before {
    content: "\f0d5";
  }
  .fa-money:before {
    content: "\f0d6";
  }
  .fa-caret-down:before {
    content: "\f0d7";
  }
  .fa-caret-up:before {
    content: "\f0d8";
  }
  .fa-caret-left:before {
    content: "\f0d9";
  }
  .fa-caret-right:before {
    content: "\f0da";
  }
  .fa-columns:before {
    content: "\f0db";
  }
```

```
.fa-unsorted:before,
.fa-sort:before {
  content: "\f0dc";
}
.fa-sort-down:before,
.fa-sort-desc:before {
  content: "\f0dd";
}
.fa-sort-up:before,
.fa-sort-asc:before {
  content: "\f0de";
}
.fa-envelope:before {
  content: "\f0e0";
}
.fa-linkedin:before {
  content: "\f0e1";
}
.fa-rotate-left:before,
.fa-undo:before {
  content: "\f0e2";
}
.fa-legal:before,
.fa-gavel:before {
  content: "\f0e3";
}
.fa-dashboard:before,
.fa-tachometer:before {
  content: "\f0e4";
}
.fa-comment-o:before {
  content: "\f0e5";
}
.fa-comments-o:before {
  content: "\f0e6";
}
.fa-flash:before,
.fa-bolt:before {
  content: "\f0e7";
}
.fa-sitemap:before {
  content: "\f0e8";
}
.fa-umbrella:before {
  content: "\f0e9";
}
.fa-paste:before,
.fa-clipboard:before {
  content: "\f0ea";
}
.fa-lightbulb-o:before {
  content: "\f0eb";
}
.fa-exchange:before {
  content: "\f0ec";
}
.fa-cloud-download:before {
  content: "\f0ed";
}
.fa-cloud-upload:before {
  content: "\f0ee";
}
.fa-user-md:before {
  content: "\f0f0";
}
```

```
.fa-stethoscope:before {
  content: "\f0f1";
}
.fa-suitcase:before {
  content: "\f0f2";
}
.fa-bell-o:before {
  content: "\f0a2";
}
.fa-coffee:before {
  content: "\f0f4";
}
.fa-cutlery:before {
  content: "\f0f5";
}
.fa-file-text-o:before {
  content: "\f0f6";
}
.fa-building-o:before {
  content: "\f0f7";
}
.fa-hospital-o:before {
  content: "\f0f8";
}
.fa-ambulance:before {
  content: "\f0f9";
}
.fa-medkit:before {
  content: "\f0fa";
}
.fa-fighter-jet:before {
  content: "\f0fb";
}
.fa-beer:before {
  content: "\f0fc";
}
.fa-h-square:before {
  content: "\f0fd";
}
.fa-plus-square:before {
  content: "\f0fe";
}
.fa-angle-double-left:before {
  content: "\f100";
}
.fa-angle-double-right:before {
  content: "\f101";
}
.fa-angle-double-up:before {
  content: "\f102";
}
.fa-angle-double-down:before {
  content: "\f103";
}
.fa-angle-left:before {
  content: "\f104";
}
.fa-angle-right:before {
  content: "\f105";
}
.fa-angle-up:before {
  content: "\f106";
}
.fa-angle-down:before {
  content: "\f107";
```

```
}
.fa-desktop:before {
  content: "\f108";
}
.fa-laptop:before {
  content: "\f109";
}
.fa-tablet:before {
  content: "\f10a";
}
.fa-mobile-phone:before,
.fa-mobile:before {
  content: "\f10b";
}
.fa-circle-o:before {
  content: "\f10c";
}
.fa-quote-left:before {
  content: "\f10d";
}
.fa-quote-right:before {
  content: "\f10e";
}
.fa-spinner:before {
  content: "\f110";
}
.fa-circle:before {
  content: "\f111";
}
.fa-mail-reply:before,
.fa-reply:before {
  content: "\f112";
}
.fa-github-alt:before {
  content: "\f113";
}
.fa-folder-o:before {
  content: "\f114";
}
.fa-folder-open-o:before {
  content: "\f115";
}
.fa-smile-o:before {
  content: "\f118";
}
.fa-frown-o:before {
  content: "\f119";
}
.fa-meh-o:before {
  content: "\f11a";
}
.fa-gamepad:before {
  content: "\f11b";
}
.fa-keyboard-o:before {
  content: "\f11c";
}
.fa-flag-o:before {
  content: "\f11d";
}
.fa-flag-checkered:before {
  content: "\f11e";
}
.fa-terminal:before {
  content: "\f120";
```

```
}
.fa-code:before {
  content: "\f121";
}
.fa-mail-reply-all:before,
.fa-reply-all:before {
  content: "\f122";
}
.fa-star-half-empty:before,
.fa-star-half-full:before,
.fa-star-half-o:before {
  content: "\f123";
}
.fa-location-arrow:before {
  content: "\f124";
}
.fa-crop:before {
  content: "\f125";
}
.fa-code-fork:before {
  content: "\f126";
}
.fa-unlink:before,
.fa-chain-broken:before {
  content: "\f127";
}
.fa-question:before {
  content: "\f128";
}
.fa-info:before {
  content: "\f129";
}
.fa-exclamation:before {
  content: "\f12a";
}
.fa-superscript:before {
  content: "\f12b";
}
.fa-subscript:before {
  content: "\f12c";
}
.fa-eraser:before {
  content: "\f12d";
}
.fa-puzzle-piece:before {
  content: "\f12e";
}
.fa-microphone:before {
  content: "\f130";
}
.fa-microphone-slash:before {
  content: "\f131";
}
.fa-shield:before {
  content: "\f132";
}
.fa-calendar-o:before {
  content: "\f133";
}
.fa-fire-extinguisher:before {
  content: "\f134";
}
.fa-rocket:before {
  content: "\f135";
}
```

```
.fa-maxcdn:before {
  content: "\f136";
}
.fa-chevron-circle-left:before {
  content: "\f137";
}
.fa-chevron-circle-right:before {
  content: "\f138";
}
.fa-chevron-circle-up:before {
  content: "\f139";
}
.fa-chevron-circle-down:before {
  content: "\f13a";
}
.fa-html5:before {
  content: "\f13b";
}
.fa-css3:before {
  content: "\f13c";
}
.fa-anchor:before {
  content: "\f13d";
}
.fa-unlock-alt:before {
  content: "\f13e";
}
.fa-bullseye:before {
  content: "\f140";
}
.fa-ellipsis-h:before {
  content: "\f141";
}
.fa-ellipsis-v:before {
  content: "\f142";
}
.fa-rss-square:before {
  content: "\f143";
}
.fa-play-circle:before {
  content: "\f144";
}
.fa-ticket:before {
  content: "\f145";
}
.fa-minus-square:before {
  content: "\f146";
}
.fa-minus-square-o:before {
  content: "\f147";
}
.fa-level-up:before {
  content: "\f148";
}
.fa-level-down:before {
  content: "\f149";
}
.fa-check-square:before {
  content: "\f14a";
}
.fa-pencil-square:before {
  content: "\f14b";
}
.fa-external-link-square:before {
  content: "\f14c";
```

```
}
.fa-share-square:before {
  content: "\f14d";
}
.fa-compass:before {
  content: "\f14e";
}
.fa-toggle-down:before,
.fa-caret-square-o-down:before {
  content: "\f150";
}
.fa-toggle-up:before,
.fa-caret-square-o-up:before {
  content: "\f151";
}
.fa-toggle-right:before,
.fa-caret-square-o-right:before {
  content: "\f152";
}
.fa-euro:before,
.fa-eur:before {
  content: "\f153";
}
.fa-gbp:before {
  content: "\f154";
}
.fa-dollar:before,
.fa-usd:before {
  content: "\f155";
}
.fa-rupee:before,
.fa-inr:before {
  content: "\f156";
}
.fa-cny:before,
.fa-rmb:before,
.fa-yen:before,
.fa-jpy:before {
  content: "\f157";
}
.fa-ruble:before,
.fa-rouble:before,
.fa-rub:before {
  content: "\f158";
}
.fa-won:before,
.fa-krw:before {
  content: "\f159";
}
.fa-bitcoin:before,
.fa-btc:before {
  content: "\f15a";
}
.fa-file:before {
  content: "\f15b";
}
.fa-file-text:before {
  content: "\f15c";
}
.fa-sort-alpha-asc:before {
  content: "\f15d";
}
.fa-sort-alpha-desc:before {
  content: "\f15e";
}
```

```
.fa-sort-amount-asc:before {
  content: "\f160";
}
.fa-sort-amount-desc:before {
  content: "\f161";
}
.fa-sort-numeric-asc:before {
  content: "\f162";
}
.fa-sort-numeric-desc:before {
  content: "\f163";
}
.fa-thumbs-up:before {
  content: "\f164";
}
.fa-thumbs-down:before {
  content: "\f165";
}
.fa-youtube-square:before {
  content: "\f166";
}
.fa-youtube:before {
  content: "\f167";
}
.fa-xing:before {
  content: "\f168";
}
.fa-xing-square:before {
  content: "\f169";
}
.fa-youtube-play:before {
  content: "\f16a";
}
.fa-dropbox:before {
  content: "\f16b";
}
.fa-stack-overflow:before {
  content: "\f16c";
}
.fa-instagram:before {
  content: "\f16d";
}
.fa-flickr:before {
  content: "\f16e";
}
.fa-adn:before {
  content: "\f170";
}
.fa-bitbucket:before {
  content: "\f171";
}
.fa-bitbucket-square:before {
  content: "\f172";
}
.fa-tumblr:before {
  content: "\f173";
}
.fa-tumblr-square:before {
  content: "\f174";
}
.fa-long-arrow-down:before {
  content: "\f175";
}
.fa-long-arrow-up:before {
  content: "\f176";
```

```
}
.fa-long-arrow-left:before {
  content: "\f177";
}
.fa-long-arrow-right:before {
  content: "\f178";
}
.fa-apple:before {
  content: "\f179";
}
.fa-windows:before {
  content: "\f17a";
}
.fa-android:before {
  content: "\f17b";
}
.fa-linux:before {
  content: "\f17c";
}
.fa-dribbble:before {
  content: "\f17d";
}
.fa-skype:before {
  content: "\f17e";
}
.fa-foursquare:before {
  content: "\f180";
}
.fa-trello:before {
  content: "\f181";
}
.fa-female:before {
  content: "\f182";
}
.fa-male:before {
  content: "\f183";
}
.fa-gittip:before,
.fa-gratipay:before {
  content: "\f184";
}
.fa-sun-o:before {
  content: "\f185";
}
.fa-moon-o:before {
  content: "\f186";
}
.fa-archive:before {
  content: "\f187";
}
.fa-bug:before {
  content: "\f188";
}
.fa-vk:before {
  content: "\f189";
}
.fa-weibo:before {
  content: "\f18a";
}
.fa-renren:before {
  content: "\f18b";
}
.fa-pagelines:before {
  content: "\f18c";
}
```

```
.fa-stack-exchange:before {
  content: "\f18d";
}
.fa-arrow-circle-o-right:before {
  content: "\f18e";
}
.fa-arrow-circle-o-left:before {
  content: "\f190";
}
.fa-toggle-left:before,
.fa-caret-square-o-left:before {
  content: "\f191";
}
.fa-dot-circle-o:before {
  content: "\f192";
}
.fa-wheelchair:before {
  content: "\f193";
}
.fa-vimeo-square:before {
  content: "\f194";
}
.fa-turkish-lira:before,
.fa-try:before {
  content: "\f195";
}
.fa-plus-square-o:before {
  content: "\f196";
}
.fa-space-shuttle:before {
  content: "\f197";
}
.fa-slack:before {
  content: "\f198";
}
.fa-envelope-square:before {
  content: "\f199";
}
.fa-wordpress:before {
  content: "\f19a";
}
.fa-openid:before {
  content: "\f19b";
}
.fa-institution:before,
.fa-bank:before,
.fa-university:before {
  content: "\f19c";
}
.fa-mortar-board:before,
.fa-graduation-cap:before {
  content: "\f19d";
}
.fa-yahoo:before {
  content: "\f19e";
}
.fa-google:before {
  content: "\f1a0";
}
.fa-reddit:before {
  content: "\f1a1";
}
.fa-reddit-square:before {
  content: "\f1a2";
}
```

```
.fa-stumbleupon-circle:before {
  content: "\f1a3";
}
.fa-stumbleupon:before {
  content: "\f1a4";
}
.fa-delicious:before {
  content: "\f1a5";
}
.fa-digg:before {
  content: "\f1a6";
}
.fa-pied-piper-pp:before {
  content: "\f1a7";
}
.fa-pied-piper-alt:before {
  content: "\f1a8";
}
.fa-drupal:before {
  content: "\f1a9";
}
.fa-joomla:before {
  content: "\f1aa";
}
.fa-language:before {
  content: "\f1ab";
}
.fa-fax:before {
  content: "\f1ac";
}
.fa-building:before {
  content: "\f1ad";
}
.fa-child:before {
  content: "\f1ae";
}
.fa-paw:before {
  content: "\f1b0";
}
.fa-spoon:before {
  content: "\f1b1";
}
.fa-cube:before {
  content: "\f1b2";
}
.fa-cubes:before {
  content: "\f1b3";
}
.fa-behance:before {
  content: "\f1b4";
}
.fa-behance-square:before {
  content: "\f1b5";
}
.fa-steam:before {
  content: "\f1b6";
}
.fa-steam-square:before {
  content: "\f1b7";
}
.fa-recycle:before {
  content: "\f1b8";
}
.fa-automobile:before,
.fa-car:before {
```

```
    content: "\f1b9";
  }
  .fa-cab:before,
  .fa-taxi:before {
    content: "\f1ba";
  }
  .fa-tree:before {
    content: "\f1bb";
  }
  .fa-spotify:before {
    content: "\f1bc";
  }
  .fa-deviantart:before {
    content: "\f1bd";
  }
  .fa-soundcloud:before {
    content: "\f1be";
  }
  .fa-database:before {
    content: "\f1c0";
  }
  .fa-file-pdf-o:before {
    content: "\f1c1";
  }
  .fa-file-word-o:before {
    content: "\f1c2";
  }
  .fa-file-excel-o:before {
    content: "\f1c3";
  }
  .fa-file-powerpoint-o:before {
    content: "\f1c4";
  }
  .fa-file-photo-o:before,
  .fa-file-picture-o:before,
  .fa-file-image-o:before {
    content: "\f1c5";
  }
  .fa-file-zip-o:before,
  .fa-file-archive-o:before {
    content: "\f1c6";
  }
  .fa-file-sound-o:before,
  .fa-file-audio-o:before {
    content: "\f1c7";
  }
  .fa-file-movie-o:before,
  .fa-file-video-o:before {
    content: "\f1c8";
  }
  .fa-file-code-o:before {
    content: "\f1c9";
  }
  .fa-vine:before {
    content: "\f1ca";
  }
  .fa-codepen:before {
    content: "\f1cb";
  }
  .fa-jsfiddle:before {
    content: "\f1cc";
  }
  .fa-life-bouy:before,
  .fa-life-buoy:before,
  .fa-life-saver:before,
```

```
.fa-support:before,
.fa-life-ring:before {
  content: "\f1cd";
}
.fa-circle-o-notch:before {
  content: "\f1ce";
}
.fa-ra:before,
.fa-resistance:before,
.fa-rebel:before {
  content: "\f1d0";
}
.fa-ge:before,
.fa-empire:before {
  content: "\f1d1";
}
.fa-git-square:before {
  content: "\f1d2";
}
.fa-git:before {
  content: "\f1d3";
}
.fa-y-combinator-square:before,
.fa-yc-square:before,
.fa-hacker-news:before {
  content: "\f1d4";
}
.fa-tencent-weibo:before {
  content: "\f1d5";
}
.fa-qq:before {
  content: "\f1d6";
}
.fa-wechat:before,
.fa-weixin:before {
  content: "\f1d7";
}
.fa-send:before,
.fa-paper-plane:before {
  content: "\f1d8";
}
.fa-send-o:before,
.fa-paper-plane-o:before {
  content: "\f1d9";
}
.fa-history:before {
  content: "\f1da";
}
.fa-circle-thin:before {
  content: "\f1db";
}
.fa-header:before {
  content: "\f1dc";
}
.fa-paragraph:before {
  content: "\f1dd";
}
.fa-sliders:before {
  content: "\f1de";
}
.fa-share-alt:before {
  content: "\f1e0";
}
.fa-share-alt-square:before {
  content: "\f1e1";
```

```
}
.fa-bomb:before {
  content: "\f1e2";
}
.fa-soccer-ball-o:before,
.fa-futbol-o:before {
  content: "\f1e3";
}
.fa-tty:before {
  content: "\f1e4";
}
.fa-binoculars:before {
  content: "\f1e5";
}
.fa-plug:before {
  content: "\f1e6";
}
.fa-slideshare:before {
  content: "\f1e7";
}
.fa-twitch:before {
  content: "\f1e8";
}
.fa-yelp:before {
  content: "\f1e9";
}
.fa-newspaper-o:before {
  content: "\f1ea";
}
.fa-wifi:before {
  content: "\f1eb";
}
.fa-calculator:before {
  content: "\f1ec";
}
.fa-paypal:before {
  content: "\f1ed";
}
.fa-google-wallet:before {
  content: "\f1ee";
}
.fa-cc-visa:before {
  content: "\f1f0";
}
.fa-cc-mastercard:before {
  content: "\f1f1";
}
.fa-cc-discover:before {
  content: "\f1f2";
}
.fa-cc-amex:before {
  content: "\f1f3";
}
.fa-cc-paypal:before {
  content: "\f1f4";
}
.fa-cc-stripe:before {
  content: "\f1f5";
}
.fa-bell-slash:before {
  content: "\f1f6";
}
.fa-bell-slash-o:before {
  content: "\f1f7";
}
```

```
.fa-trash:before {
  content: "\f1f8";
}
.fa-copyright:before {
  content: "\f1f9";
}
.fa-at:before {
  content: "\f1fa";
}
.fa-eyedropper:before {
  content: "\f1fb";
}
.fa-paint-brush:before {
  content: "\f1fc";
}
.fa-birthday-cake:before {
  content: "\f1fd";
}
.fa-area-chart:before {
  content: "\f1fe";
}
.fa-pie-chart:before {
  content: "\f200";
}
.fa-line-chart:before {
  content: "\f201";
}
.fa-lastfm:before {
  content: "\f202";
}
.fa-lastfm-square:before {
  content: "\f203";
}
.fa-toggle-off:before {
  content: "\f204";
}
.fa-toggle-on:before {
  content: "\f205";
}
.fa-bicycle:before {
  content: "\f206";
}
.fa-bus:before {
  content: "\f207";
}
.fa-ioxhost:before {
  content: "\f208";
}
.fa-angellist:before {
  content: "\f209";
}
.fa-cc:before {
  content: "\f20a";
}
.fa-shekel:before,
.fa-sheqel:before,
.fa-ils:before {
  content: "\f20b";
}
.fa-meanpath:before {
  content: "\f20c";
}
.fa-buysellads:before {
  content: "\f20d";
}
```

```
.fa-connectdevelop:before {
  content: "\f20e";
}
.fa-dashcube:before {
  content: "\f210";
}
.fa-forumbee:before {
  content: "\f211";
}
.fa-leanpub:before {
  content: "\f212";
}
.fa-sellsy:before {
  content: "\f213";
}
.fa-shirtsinbulk:before {
  content: "\f214";
}
.fa-simplybuilt:before {
  content: "\f215";
}
.fa-skyatlas:before {
  content: "\f216";
}
.fa-cart-plus:before {
  content: "\f217";
}
.fa-cart-arrow-down:before {
  content: "\f218";
}
.fa-diamond:before {
  content: "\f219";
}
.fa-ship:before {
  content: "\f21a";
}
.fa-user-secret:before {
  content: "\f21b";
}
.fa-motorcycle:before {
  content: "\f21c";
}
.fa-street-view:before {
  content: "\f21d";
}
.fa-heartbeat:before {
  content: "\f21e";
}
.fa-venus:before {
  content: "\f221";
}
.fa-mars:before {
  content: "\f222";
}
.fa-mercury:before {
  content: "\f223";
}
.fa-intersex:before,
.fa-transgender:before {
  content: "\f224";
}
.fa-transgender-alt:before {
  content: "\f225";
}
.fa-venus-double:before {
```

```
    content: "\f226";
  }
  .fa-mars-double:before {
    content: "\f227";
  }
  .fa-venus-mars:before {
    content: "\f228";
  }
  .fa-mars-stroke:before {
    content: "\f229";
  }
  .fa-mars-stroke-v:before {
    content: "\f22a";
  }
  .fa-mars-stroke-h:before {
    content: "\f22b";
  }
  .fa-neuter:before {
    content: "\f22c";
  }
  .fa-genderless:before {
    content: "\f22d";
  }
  .fa-facebook-official:before {
    content: "\f230";
  }
  .fa-pinterest-p:before {
    content: "\f231";
  }
  .fa-whatsapp:before {
    content: "\f232";
  }
  .fa-server:before {
    content: "\f233";
  }
  .fa-user-plus:before {
    content: "\f234";
  }
  .fa-user-times:before {
    content: "\f235";
  }
  .fa-hotel:before,
  .fa-bed:before {
    content: "\f236";
  }
  .fa-viacoin:before {
    content: "\f237";
  }
  .fa-train:before {
    content: "\f238";
  }
  .fa-subway:before {
    content: "\f239";
  }
  .fa-medium:before {
    content: "\f23a";
  }
  .fa-yc:before,
  .fa-y-combinator:before {
    content: "\f23b";
  }
  .fa-optin-monster:before {
    content: "\f23c";
  }
  .fa-opencart:before {
```

```
    content: "\f23d";
  }
  .fa-expeditedssl:before {
    content: "\f23e";
  }
  .fa-battery-4:before,
  .fa-battery:before,
  .fa-battery-full:before {
    content: "\f240";
  }
  .fa-battery-3:before,
  .fa-battery-three-quarters:before {
    content: "\f241";
  }
  .fa-battery-2:before,
  .fa-battery-half:before {
    content: "\f242";
  }
  .fa-battery-1:before,
  .fa-battery-quarter:before {
    content: "\f243";
  }
  .fa-battery-0:before,
  .fa-battery-empty:before {
    content: "\f244";
  }
  .fa-mouse-pointer:before {
    content: "\f245";
  }
  .fa-i-cursor:before {
    content: "\f246";
  }
  .fa-object-group:before {
    content: "\f247";
  }
  .fa-object-ungroup:before {
    content: "\f248";
  }
  .fa-sticky-note:before {
    content: "\f249";
  }
  .fa-sticky-note-o:before {
    content: "\f24a";
  }
  .fa-cc-jcb:before {
    content: "\f24b";
  }
  .fa-cc-diners-club:before {
    content: "\f24c";
  }
  .fa-clone:before {
    content: "\f24d";
  }
  .fa-balance-scale:before {
    content: "\f24e";
  }
  .fa-hourglass-o:before {
    content: "\f250";
  }
  .fa-hourglass-1:before,
  .fa-hourglass-start:before {
    content: "\f251";
  }
  .fa-hourglass-2:before,
  .fa-hourglass-half:before {
```

```
  content: "\f252";
}
.fa-hourglass-3:before,
.fa-hourglass-end:before {
  content: "\f253";
}
.fa-hourglass:before {
  content: "\f254";
}
.fa-hand-grab-o:before,
.fa-hand-rock-o:before {
  content: "\f255";
}
.fa-hand-stop-o:before,
.fa-hand-paper-o:before {
  content: "\f256";
}
.fa-hand-scissors-o:before {
  content: "\f257";
}
.fa-hand-lizard-o:before {
  content: "\f258";
}
.fa-hand-spock-o:before {
  content: "\f259";
}
.fa-hand-pointer-o:before {
  content: "\f25a";
}
.fa-hand-peace-o:before {
  content: "\f25b";
}
.fa-trademark:before {
  content: "\f25c";
}
.fa-registered:before {
  content: "\f25d";
}
.fa-creative-commons:before {
  content: "\f25e";
}
.fa-gg:before {
  content: "\f260";
}
.fa-gg-circle:before {
  content: "\f261";
}
.fa-tripadvisor:before {
  content: "\f262";
}
.fa-odnoklassniki:before {
  content: "\f263";
}
.fa-odnoklassniki-square:before {
  content: "\f264";
}
.fa-get-pocket:before {
  content: "\f265";
}
.fa-wikipedia-w:before {
  content: "\f266";
}
.fa-safari:before {
  content: "\f267";
}
```

```
.fa-chrome:before {
  content: "\f268";
}
.fa-firefox:before {
  content: "\f269";
}
.fa-opera:before {
  content: "\f26a";
}
.fa-internet-explorer:before {
  content: "\f26b";
}
.fa-tv:before,
.fa-television:before {
  content: "\f26c";
}
.fa-contao:before {
  content: "\f26d";
}
.fa-500px:before {
  content: "\f26e";
}
.fa-amazon:before {
  content: "\f270";
}
.fa-calendar-plus-o:before {
  content: "\f271";
}
.fa-calendar-minus-o:before {
  content: "\f272";
}
.fa-calendar-times-o:before {
  content: "\f273";
}
.fa-calendar-check-o:before {
  content: "\f274";
}
.fa-industry:before {
  content: "\f275";
}
.fa-map-pin:before {
  content: "\f276";
}
.fa-map-signs:before {
  content: "\f277";
}
.fa-map-o:before {
  content: "\f278";
}
.fa-map:before {
  content: "\f279";
}
.fa-commenting:before {
  content: "\f27a";
}
.fa-commenting-o:before {
  content: "\f27b";
}
.fa-houzz:before {
  content: "\f27c";
}
.fa-vimeo:before {
  content: "\f27d";
}
.fa-black-tie:before {
```

```
    content: "\f27e";
  }
  .fa-fonticons:before {
    content: "\f280";
  }
  .fa-reddit-alien:before {
    content: "\f281";
  }
  .fa-edge:before {
    content: "\f282";
  }
  .fa-credit-card-alt:before {
    content: "\f283";
  }
  .fa-codiepie:before {
    content: "\f284";
  }
  .fa-modx:before {
    content: "\f285";
  }
  .fa-fort-awesome:before {
    content: "\f286";
  }
  .fa-usb:before {
    content: "\f287";
  }
  .fa-product-hunt:before {
    content: "\f288";
  }
  .fa-mixcloud:before {
    content: "\f289";
  }
  .fa-scribd:before {
    content: "\f28a";
  }
  .fa-pause-circle:before {
    content: "\f28b";
  }
  .fa-pause-circle-o:before {
    content: "\f28c";
  }
  .fa-stop-circle:before {
    content: "\f28d";
  }
  .fa-stop-circle-o:before {
    content: "\f28e";
  }
  .fa-shopping-bag:before {
    content: "\f290";
  }
  .fa-shopping-basket:before {
    content: "\f291";
  }
  .fa-hashtag:before {
    content: "\f292";
  }
  .fa-bluetooth:before {
    content: "\f293";
  }
  .fa-bluetooth-b:before {
    content: "\f294";
  }
  .fa-percent:before {
    content: "\f295";
  }
```

```
.fa-gitlab:before {
  content: "\f296";
}
.fa-wpbeginner:before {
  content: "\f297";
}
.fa-wpforms:before {
  content: "\f298";
}
.fa-envira:before {
  content: "\f299";
}
.fa-universal-access:before {
  content: "\f29a";
}
.fa-wheelchair-alt:before {
  content: "\f29b";
}
.fa-question-circle-o:before {
  content: "\f29c";
}
.fa-blind:before {
  content: "\f29d";
}
.fa-audio-description:before {
  content: "\f29e";
}
.fa-volume-control-phone:before {
  content: "\f2a0";
}
.fa-braille:before {
  content: "\f2a1";
}
.fa-assistive-listening-systems:before {
  content: "\f2a2";
}
.fa-asl-interpreting:before,
.fa-american-sign-language-interpreting:before {
  content: "\f2a3";
}
.fa-deafness:before,
.fa-hard-of-hearing:before,
.fa-deaf:before {
  content: "\f2a4";
}
.fa-glide:before {
  content: "\f2a5";
}
.fa-glide-g:before {
  content: "\f2a6";
}
.fa-signing:before,
.fa-sign-language:before {
  content: "\f2a7";
}
.fa-low-vision:before {
  content: "\f2a8";
}
.fa-viadeo:before {
  content: "\f2a9";
}
.fa-viadeo-square:before {
  content: "\f2aa";
}
.fa-snapchat:before {
```

```
    content: "\f2ab";
  }
  .fa-snapchat-ghost:before {
    content: "\f2ac";
  }
  .fa-snapchat-square:before {
    content: "\f2ad";
  }
  .fa-pied-piper:before {
    content: "\f2ae";
  }
  .fa-first-order:before {
    content: "\f2b0";
  }
  .fa-yoast:before {
    content: "\f2b1";
  }
  .fa-themeisle:before {
    content: "\f2b2";
  }
  .fa-google-plus-circle:before,
  .fa-google-plus-official:before {
    content: "\f2b3";
  }
  .fa-fa:before,
  .fa-font-awesome:before {
    content: "\f2b4";
  }
  .fa-handshake-o:before {
    content: "\f2b5";
  }
  .fa-envelope-open:before {
    content: "\f2b6";
  }
  .fa-envelope-open-o:before {
    content: "\f2b7";
  }
  .fa-linode:before {
    content: "\f2b8";
  }
  .fa-address-book:before {
    content: "\f2b9";
  }
  .fa-address-book-o:before {
    content: "\f2ba";
  }
  .fa-vcard:before,
  .fa-address-card:before {
    content: "\f2bb";
  }
  .fa-vcard-o:before,
  .fa-address-card-o:before {
    content: "\f2bc";
  }
  .fa-user-circle:before {
    content: "\f2bd";
  }
  .fa-user-circle-o:before {
    content: "\f2be";
  }
  .fa-user-o:before {
    content: "\f2c0";
  }
  .fa-id-badge:before {
    content: "\f2c1";
```

```
}
.fa-drivers-license:before,
.fa-id-card:before {
  content: "\f2c2";
}
.fa-drivers-license-o:before,
.fa-id-card-o:before {
  content: "\f2c3";
}
.fa-quora:before {
  content: "\f2c4";
}
.fa-free-code-camp:before {
  content: "\f2c5";
}
.fa-telegram:before {
  content: "\f2c6";
}
.fa-thermometer-4:before,
.fa-thermometer:before,
.fa-thermometer-full:before {
  content: "\f2c7";
}
.fa-thermometer-3:before,
.fa-thermometer-three-quarters:before {
  content: "\f2c8";
}
.fa-thermometer-2:before,
.fa-thermometer-half:before {
  content: "\f2c9";
}
.fa-thermometer-1:before,
.fa-thermometer-quarter:before {
  content: "\f2ca";
}
.fa-thermometer-0:before,
.fa-thermometer-empty:before {
  content: "\f2cb";
}
.fa-shower:before {
  content: "\f2cc";
}
.fa-bathtub:before,
.fa-s15:before,
.fa-bath:before {
  content: "\f2cd";
}
.fa-podcast:before {
  content: "\f2ce";
}
.fa-window-maximize:before {
  content: "\f2d0";
}
.fa-window-minimize:before {
  content: "\f2d1";
}
.fa-window-restore:before {
  content: "\f2d2";
}
.fa-times-rectangle:before,
.fa-window-close:before {
  content: "\f2d3";
}
.fa-times-rectangle-o:before,
.fa-window-close-o:before {
```

```
    content: "\f2d4";
  }
  .fa-bandcamp:before {
    content: "\f2d5";
  }
  .fa-grav:before {
    content: "\f2d6";
  }
  .fa-etsy:before {
    content: "\f2d7";
  }
  .fa-imdb:before {
    content: "\f2d8";
  }
  .fa-ravelry:before {
    content: "\f2d9";
  }
  .fa-eercast:before {
    content: "\f2da";
  }
  .fa-microchip:before {
    content: "\f2db";
  }
  .fa-snowflake-o:before {
    content: "\f2dc";
  }
  .fa-superpowers:before {
    content: "\f2dd";
  }
  .fa-wpexplorer:before {
    content: "\f2de";
  }
  .fa-meetup:before {
    content: "\f2e0";
  }
  .sr-only {
    position: absolute;
    width: 1px;
    height: 1px;
    padding: 0;
    margin: -1px;
    overflow: hidden;
    clip: rect(0, 0, 0, 0);
    border: 0;
  }
  .sr-only-focusable:active,
  .sr-only-focusable:focus {
    position: static;
    width: auto;
    height: auto;
    margin: 0;
    overflow: visible;
    clip: auto;
  }
  .sr-only-focusable:active,
  .sr-only-focusable:focus {
    position: static;
    width: auto;
    height: auto;
    margin: 0;
    overflow: visible;
    clip: auto;
  }
  /*!
  *
```

```
 * IPython base
 *
 */
 .modal.fade .modal-dialog {
   -webkit-transform: translate(0, 0);
   -ms-transform: translate(0, 0);
   -o-transform: translate(0, 0);
   transform: translate(0, 0);
 }
 code {
   color: #000;
 }
 pre {
   font-size: inherit;
   line-height: inherit;
 }
 label {
   font-weight: normal;
 }
 /* Make the page background atleast 100% the height of the view port */
 /* Make the page itself atleast 70% the height of the view port */
 .border-box-sizing {
   box-sizing: border-box;
   -moz-box-sizing: border-box;
   -webkit-box-sizing: border-box;
 }
 .corner-all {
   border-radius: 2px;
 }
 .no-padding {
   padding: 0px;
 }
 /* Flexible box model classes */
 /* Taken from Alex Russell http://infrequently.org/2009/08/css-3-progress/ */
 /* This file is a compatability layer.  It allows the usage of flexible box
 model layouts accross multiple browsers, including older browsers.  The newest,
 universal implementation of the flexible box model is used when available (see
 `Modern browsers` comments below).  Browsers that are known to implement this
 new spec completely include:

     Firefox 28.0+
     Chrome 29.0+
     Internet Explorer 11+
     Opera 17.0+

 Browsers not listed, including Safari, are supported via the styling under the
 `Old browsers` comments below.
 */
 .hbox {
   /* Old browsers */
   display: -webkit-box;
   -webkit-box-orient: horizontal;
   -webkit-box-align: stretch;
   display: -moz-box;
   -moz-box-orient: horizontal;
   -moz-box-align: stretch;
   display: box;
   box-orient: horizontal;
   box-align: stretch;
   /* Modern browsers */
   display: flex;
   flex-direction: row;
   align-items: stretch;
 }
 .hbox > * {
```

```
    /* Old browsers */
    -webkit-box-flex: 0;
    -moz-box-flex: 0;
    box-flex: 0;
    /* Modern browsers */
    flex: none;
  }
  .vbox {
    /* Old browsers */
    display: -webkit-box;
    -webkit-box-orient: vertical;
    -webkit-box-align: stretch;
    display: -moz-box;
    -moz-box-orient: vertical;
    -moz-box-align: stretch;
    display: box;
    box-orient: vertical;
    box-align: stretch;
    /* Modern browsers */
    display: flex;
    flex-direction: column;
    align-items: stretch;
  }
  .vbox > * {
    /* Old browsers */
    -webkit-box-flex: 0;
    -moz-box-flex: 0;
    box-flex: 0;
    /* Modern browsers */
    flex: none;
  }
  .hbox.reverse,
  .vbox.reverse,
  .reverse {
    /* Old browsers */
    -webkit-box-direction: reverse;
    -moz-box-direction: reverse;
    box-direction: reverse;
    /* Modern browsers */
    flex-direction: row-reverse;
  }
  .hbox.box-flex0,
  .vbox.box-flex0,
  .box-flex0 {
    /* Old browsers */
    -webkit-box-flex: 0;
    -moz-box-flex: 0;
    box-flex: 0;
    /* Modern browsers */
    flex: none;
    width: auto;
  }
  .hbox.box-flex1,
  .vbox.box-flex1,
  .box-flex1 {
    /* Old browsers */
    -webkit-box-flex: 1;
    -moz-box-flex: 1;
    box-flex: 1;
    /* Modern browsers */
    flex: 1;
  }
  .hbox.box-flex,
  .vbox.box-flex,
  .box-flex {
```

```
    /* Old browsers */
    /* Old browsers */
    -webkit-box-flex: 1;
    -moz-box-flex: 1;
    box-flex: 1;
    /* Modern browsers */
    flex: 1;
  }
  .hbox.box-flex2,
  .vbox.box-flex2,
  .box-flex2 {
    /* Old browsers */
    -webkit-box-flex: 2;
    -moz-box-flex: 2;
    box-flex: 2;
    /* Modern browsers */
    flex: 2;
  }
  .box-group1 {
    /*  Deprecated */
    -webkit-box-flex-group: 1;
    -moz-box-flex-group: 1;
    box-flex-group: 1;
  }
  .box-group2 {
    /* Deprecated */
    -webkit-box-flex-group: 2;
    -moz-box-flex-group: 2;
    box-flex-group: 2;
  }
  .hbox.start,
  .vbox.start,
  .start {
    /* Old browsers */
    -webkit-box-pack: start;
    -moz-box-pack: start;
    box-pack: start;
    /* Modern browsers */
    justify-content: flex-start;
  }
  .hbox.end,
  .vbox.end,
  .end {
    /* Old browsers */
    -webkit-box-pack: end;
    -moz-box-pack: end;
    box-pack: end;
    /* Modern browsers */
    justify-content: flex-end;
  }
  .hbox.center,
  .vbox.center,
  .center {
    /* Old browsers */
    -webkit-box-pack: center;
    -moz-box-pack: center;
    box-pack: center;
    /* Modern browsers */
    justify-content: center;
  }
  .hbox.baseline,
  .vbox.baseline,
  .baseline {
    /* Old browsers */
    -webkit-box-pack: baseline;
```

```
    -moz-box-pack: baseline;
    box-pack: baseline;
    /* Modern browsers */
    justify-content: baseline;
  }
  .hbox.stretch,
  .vbox.stretch,
  .stretch {
    /* Old browsers */
    -webkit-box-pack: stretch;
    -moz-box-pack: stretch;
    box-pack: stretch;
    /* Modern browsers */
    justify-content: stretch;
  }
  .hbox.align-start,
  .vbox.align-start,
  .align-start {
    /* Old browsers */
    -webkit-box-align: start;
    -moz-box-align: start;
    box-align: start;
    /* Modern browsers */
    align-items: flex-start;
  }
  .hbox.align-end,
  .vbox.align-end,
  .align-end {
    /* Old browsers */
    -webkit-box-align: end;
    -moz-box-align: end;
    box-align: end;
    /* Modern browsers */
    align-items: flex-end;
  }
  .hbox.align-center,
  .vbox.align-center,
  .align-center {
    /* Old browsers */
    -webkit-box-align: center;
    -moz-box-align: center;
    box-align: center;
    /* Modern browsers */
    align-items: center;
  }
  .hbox.align-baseline,
  .vbox.align-baseline,
  .align-baseline {
    /* Old browsers */
    -webkit-box-align: baseline;
    -moz-box-align: baseline;
    box-align: baseline;
    /* Modern browsers */
    align-items: baseline;
  }
  .hbox.align-stretch,
  .vbox.align-stretch,
  .align-stretch {
    /* Old browsers */
    -webkit-box-align: stretch;
    -moz-box-align: stretch;
    box-align: stretch;
    /* Modern browsers */
    align-items: stretch;
  }
```

```
div.error {
  margin: 2em;
  text-align: center;
}
div.error > h1 {
  font-size: 500%;
  line-height: normal;
}
div.error > p {
  font-size: 200%;
  line-height: normal;
}
div.traceback-wrapper {
  text-align: left;
  max-width: 800px;
  margin: auto;
}
div.traceback-wrapper pre.traceback {
  max-height: 600px;
  overflow: auto;
}
/**
 * Primary styles
 *
 * Author: Jupyter Development Team
 */
body {
  background-color: #fff;
  /* This makes sure that the body covers the entire window and needs to
       be in a different element than the display: box in wrapper below */
  position: absolute;
  left: 0px;
  right: 0px;
  top: 0px;
  bottom: 0px;
  overflow: visible;
}
body > #header {
  /* Initially hidden to prevent FLOUC */
  display: none;
  background-color: #fff;
  /* Display over codemirror */
  position: relative;
  z-index: 100;
}
body > #header #header-container {
  display: flex;
  flex-direction: row;
  justify-content: space-between;
  padding: 5px;
  padding-bottom: 5px;
  padding-top: 5px;
  box-sizing: border-box;
  -moz-box-sizing: border-box;
  -webkit-box-sizing: border-box;
}
body > #header .header-bar {
  width: 100%;
  height: 1px;
  background: #e7e7e7;
  margin-bottom: -1px;
}
@media print {
  body > #header {
    display: none !important;
```

```
    }
  }
  #header-spacer {
    width: 100%;
    visibility: hidden;
  }
  @media print {
    #header-spacer {
      display: none;
    }
  }
  #ipython_notebook {
    padding-left: 0px;
    padding-top: 1px;
    padding-bottom: 1px;
  }
  [dir="rtl"] #ipython_notebook {
    margin-right: 10px;
    margin-left: 0;
  }
  [dir="rtl"] #ipython_notebook.pull-left {
    float: right !important;
    float: right;
  }
  .flex-spacer {
    flex: 1;
  }
  #noscript {
    width: auto;
    padding-top: 16px;
    padding-bottom: 16px;
    text-align: center;
    font-size: 22px;
    color: red;
    font-weight: bold;
  }
  #ipython_notebook img {
    height: 28px;
  }
  #site {
    width: 100%;
    display: none;
    box-sizing: border-box;
    -moz-box-sizing: border-box;
    -webkit-box-sizing: border-box;
    overflow: auto;
  }
  @media print {
    #site {
      height: auto !important;
    }
  }
  /* Smaller buttons */
  .ui-button .ui-button-text {
    padding: 0.2em 0.8em;
    font-size: 77%;
  }
  input.ui-button {
    padding: 0.3em 0.9em;
  }
  span#kernel_logo_widget {
    margin: 0 10px;
  }
  span#login_widget {
    float: right;
```

```
}
[dir="rtl"] span#login_widget {
  float: left;
}
span#login_widget > .button,
#logout {
  color: #333;
  background-color: #fff;
  border-color: #ccc;
}
span#login_widget > .button:focus,
#logout:focus,
span#login_widget > .button.focus,
#logout.focus {
  color: #333;
  background-color: #e6e6e6;
  border-color: #8c8c8c;
}
span#login_widget > .button:hover,
#logout:hover {
  color: #333;
  background-color: #e6e6e6;
  border-color: #adadad;
}
span#login_widget > .button:active,
#logout:active,
span#login_widget > .button.active,
#logout.active,
.open > .dropdown-togglespan#login_widget > .button,
.open > .dropdown-toggle#logout {
  color: #333;
  background-color: #e6e6e6;
  border-color: #adadad;
}
span#login_widget > .button:active:hover,
#logout:active:hover,
span#login_widget > .button.active:hover,
#logout.active:hover,
.open > .dropdown-togglespan#login_widget > .button:hover,
.open > .dropdown-toggle#logout:hover,
span#login_widget > .button:active:focus,
#logout:active:focus,
span#login_widget > .button.active:focus,
#logout.active:focus,
.open > .dropdown-togglespan#login_widget > .button:focus,
.open > .dropdown-toggle#logout:focus,
span#login_widget > .button:active.focus,
#logout:active.focus,
span#login_widget > .button.active.focus,
#logout.active.focus,
.open > .dropdown-togglespan#login_widget > .button.focus,
.open > .dropdown-toggle#logout.focus {
  color: #333;
  background-color: #d4d4d4;
  border-color: #8c8c8c;
}
span#login_widget > .button:active,
#logout:active,
span#login_widget > .button.active,
#logout.active,
.open > .dropdown-togglespan#login_widget > .button,
.open > .dropdown-toggle#logout {
  background-image: none;
}
span#login_widget > .button.disabled:hover,
```

```
#logout.disabled:hover,
span#login_widget > .button[disabled]:hover,
#logout[disabled]:hover,
fieldset[disabled] span#login_widget > .button:hover,
fieldset[disabled] #logout:hover,
span#login_widget > .button.disabled:focus,
#logout.disabled:focus,
span#login_widget > .button[disabled]:focus,
#logout[disabled]:focus,
fieldset[disabled] span#login_widget > .button:focus,
fieldset[disabled] #logout:focus,
span#login_widget > .button.disabled.focus,
#logout.disabled.focus,
span#login_widget > .button[disabled].focus,
#logout[disabled].focus,
fieldset[disabled] span#login_widget > .button.focus,
fieldset[disabled] #logout.focus {
  background-color: #fff;
  border-color: #ccc;
}
span#login_widget > .button .badge,
#logout .badge {
  color: #fff;
  background-color: #333;
}
.nav-header {
  text-transform: none;
}
#header > span {
  margin-top: 10px;
}
.modal_stretch .modal-dialog {
  /* Old browsers */
  display: -webkit-box;
  -webkit-box-orient: vertical;
  -webkit-box-align: stretch;
  display: -moz-box;
  -moz-box-orient: vertical;
  -moz-box-align: stretch;
  display: box;
  box-orient: vertical;
  box-align: stretch;
  /* Modern browsers */
  display: flex;
  flex-direction: column;
  align-items: stretch;
  min-height: 80vh;
}
.modal_stretch .modal-dialog .modal-body {
  max-height: calc(100vh - 200px);
  overflow: auto;
  flex: 1;
}
.modal-header {
  cursor: move;
}
@media (min-width: 768px) {
  .modal .modal-dialog {
    width: 700px;
  }
}
@media (min-width: 768px) {
  select.form-control {
    margin-left: 12px;
    margin-right: 12px;
```

```
    }
  }
  /*!
  *
  * IPython auth
  *
  */
  .center-nav {
    display: inline-block;
    margin-bottom: -4px;
  }
  [dir="rtl"] .center-nav form.pull-left {
    float: right !important;
    float: right;
  }
  [dir="rtl"] .center-nav .navbar-text {
    float: right;
  }
  [dir="rtl"] .navbar-inner {
    text-align: right;
  }
  [dir="rtl"] div.text-left {
    text-align: right;
  }
  /*!
  *
  * IPython tree view
  *
  */
  /* We need an invisible input field on top of the sentense*/
  /* "Drag file onto the list ..." */
  .alternate_upload {
    background-color: none;
    display: inline;
  }
  .alternate_upload.form {
    padding: 0;
    margin: 0;
  }
  .alternate_upload input.fileinput {
    position: absolute;
    display: block;
    width: 100%;
    height: 100%;
    overflow: hidden;
    cursor: pointer;
    opacity: 0;
    z-index: 2;
  }
  .alternate_upload .btn-xs > input.fileinput {
    margin: -1px -5px;
  }
  .alternate_upload .btn-upload {
    position: relative;
    height: 22px;
  }
  ::-webkit-file-upload-button {
    cursor: pointer;
  }
  /**
   * Primary styles
   *
   * Author: Jupyter Development Team
   */
  ul#tabs {
```

```
    margin-bottom: 4px;
  }
  ul#tabs a {
    padding-top: 6px;
    padding-bottom: 4px;
  }
  [dir="rtl"] ul#tabs.nav-tabs > li {
    float: right;
  }
  [dir="rtl"] ul#tabs.nav.nav-tabs {
    padding-right: 0;
  }
  ul.breadcrumb a:focus,
  ul.breadcrumb a:hover {
    text-decoration: none;
  }
  ul.breadcrumb i.icon-home {
    font-size: 16px;
    margin-right: 4px;
  }
  ul.breadcrumb span {
    color: #5e5e5e;
  }
  .list_toolbar {
    padding: 4px 0 4px 0;
    vertical-align: middle;
  }
  .list_toolbar .tree-buttons {
    padding-top: 1px;
  }
  [dir="rtl"] .list_toolbar .tree-buttons .pull-right {
    float: left !important;
    float: left;
  }
  [dir="rtl"] .list_toolbar .col-sm-4,
  [dir="rtl"] .list_toolbar .col-sm-8 {
    float: right;
  }
  .dynamic-buttons {
    padding-top: 3px;
    display: inline-block;
  }
  .list_toolbar [class*="span"] {
    min-height: 24px;
  }
  .list_header {
    font-weight: bold;
    background-color: #EEE;
  }
  .list_placeholder {
    font-weight: bold;
    padding-top: 4px;
    padding-bottom: 4px;
    padding-left: 7px;
    padding-right: 7px;
  }
  .list_container {
    margin-top: 4px;
    margin-bottom: 20px;
    border: 1px solid #ddd;
    border-radius: 2px;
  }
  .list_container > div {
    border-bottom: 1px solid #ddd;
  }
```

```
.list_container > div:hover .list-item {
  background-color: red;
}
.list_container > div:last-child {
  border: none;
}
.list_item:hover .list_item {
  background-color: #ddd;
}
.list_item a {
  text-decoration: none;
}
.list_item:hover {
  background-color: #fafafa;
}
.list_header > div,
.list_item > div {
  padding-top: 4px;
  padding-bottom: 4px;
  padding-left: 7px;
  padding-right: 7px;
  line-height: 22px;
}
.list_header > div input,
.list_item > div input {
  margin-right: 7px;
  margin-left: 14px;
  vertical-align: text-bottom;
  line-height: 22px;
  position: relative;
  top: -1px;
}
.list_header > div .item_link,
.list_item > div .item_link {
  margin-left: -1px;
  vertical-align: baseline;
  line-height: 22px;
}
[dir="rtl"] .list_item > div input {
  margin-right: 0;
}
.new-file input[type=checkbox] {
  visibility: hidden;
}
.item_name {
  line-height: 22px;
  height: 24px;
}
.item_icon {
  font-size: 14px;
  color: #5e5e5e;
  margin-right: 7px;
  margin-left: 7px;
  line-height: 22px;
  vertical-align: baseline;
}
.item_modified {
  margin-right: 7px;
  margin-left: 7px;
}
[dir="rtl"] .item_modified.pull-right {
  float: left !important;
  float: left;
}
.item_buttons {
```

```
    line-height: 1em;
    margin-left: -5px;
  }
  .item_buttons .btn,
  .item_buttons .btn-group,
  .item_buttons .input-group {
    float: left;
  }
  .item_buttons > .btn,
  .item_buttons > .btn-group,
  .item_buttons > .input-group {
    margin-left: 5px;
  }
  .item_buttons .btn {
    min-width: 13ex;
  }
  .item_buttons .running-indicator {
    padding-top: 4px;
    color: #5cb85c;
  }
  .item_buttons .kernel-name {
    padding-top: 4px;
    color: #5bc0de;
    margin-right: 7px;
    float: left;
  }
  [dir="rtl"] .item_buttons.pull-right {
    float: left !important;
    float: left;
  }
  [dir="rtl"] .item_buttons .kernel-name {
    margin-left: 7px;
    float: right;
  }
  .toolbar_info {
    height: 24px;
    line-height: 24px;
  }
  .list_item input:not([type=checkbox]) {
    padding-top: 3px;
    padding-bottom: 3px;
    height: 22px;
    line-height: 14px;
    margin: 0px;
  }
  .highlight_text {
    color: blue;
  }
  #project_name {
    display: inline-block;
    padding-left: 7px;
    margin-left: -2px;
  }
  #project_name > .breadcrumb {
    padding: 0px;
    margin-bottom: 0px;
    background-color: transparent;
    font-weight: bold;
  }
  .sort_button {
    display: inline-block;
    padding-left: 7px;
  }
  [dir="rtl"] .sort_button.pull-right {
    float: left !important;
```

```
    float: left;
  }
  #tree-selector {
    padding-right: 0px;
  }
  #button-select-all {
    min-width: 50px;
  }
  [dir="rtl"] #button-select-all.btn {
    float: right ;
  }
  #select-all {
    margin-left: 7px;
    margin-right: 2px;
    margin-top: 2px;
    height: 16px;
  }
  [dir="rtl"] #select-all.pull-left {
    float: right !important;
    float: right;
  }
  .menu_icon {
    margin-right: 2px;
  }
  .tab-content .row {
    margin-left: 0px;
    margin-right: 0px;
  }
  .folder_icon:before {
    display: inline-block;
    font: normal normal normal 14px/1 FontAwesome;
    font-size: inherit;
    text-rendering: auto;
    -webkit-font-smoothing: antialiased;
    -moz-osx-font-smoothing: grayscale;
    content: "\f114";
  }
  .folder_icon:before.fa-pull-left {
    margin-right: .3em;
  }
  .folder_icon:before.fa-pull-right {
    margin-left: .3em;
  }
  .folder_icon:before.pull-left {
    margin-right: .3em;
  }
  .folder_icon:before.pull-right {
    margin-left: .3em;
  }
  .notebook_icon:before {
    display: inline-block;
    font: normal normal normal 14px/1 FontAwesome;
    font-size: inherit;
    text-rendering: auto;
    -webkit-font-smoothing: antialiased;
    -moz-osx-font-smoothing: grayscale;
    content: "\f02d";
    position: relative;
    top: -1px;
  }
  .notebook_icon:before.fa-pull-left {
    margin-right: .3em;
  }
  .notebook_icon:before.fa-pull-right {
    margin-left: .3em;
```

```
}
.notebook_icon:before.pull-left {
  margin-right: .3em;
}
.notebook_icon:before.pull-right {
  margin-left: .3em;
}
.running_notebook_icon:before {
  display: inline-block;
  font: normal normal normal 14px/1 FontAwesome;
  font-size: inherit;
  text-rendering: auto;
  -webkit-font-smoothing: antialiased;
  -moz-osx-font-smoothing: grayscale;
  content: "\f02d";
  position: relative;
  top: -1px;
  color: #5cb85c;
}
.running_notebook_icon:before.fa-pull-left {
  margin-right: .3em;
}
.running_notebook_icon:before.fa-pull-right {
  margin-left: .3em;
}
.running_notebook_icon:before.pull-left {
  margin-right: .3em;
}
.running_notebook_icon:before.pull-right {
  margin-left: .3em;
}
.file_icon:before {
  display: inline-block;
  font: normal normal normal 14px/1 FontAwesome;
  font-size: inherit;
  text-rendering: auto;
  -webkit-font-smoothing: antialiased;
  -moz-osx-font-smoothing: grayscale;
  content: "\f016";
  position: relative;
  top: -2px;
}
.file_icon:before.fa-pull-left {
  margin-right: .3em;
}
.file_icon:before.fa-pull-right {
  margin-left: .3em;
}
.file_icon:before.pull-left {
  margin-right: .3em;
}
.file_icon:before.pull-right {
  margin-left: .3em;
}
#notebook_toolbar .pull-right {
  padding-top: 0px;
  margin-right: -1px;
}
ul#new-menu {
  left: auto;
  right: 0;
}
#new-menu .dropdown-header {
  font-size: 10px;
  border-bottom: 1px solid #e5e5e5;
```

```
    padding: 0 0 3px;
    margin: -3px 20px 0;
  }
  .kernel-menu-icon {
    padding-right: 12px;
    width: 24px;
    content: "\f096";
  }
  .kernel-menu-icon:before {
    content: "\f096";
  }
  .kernel-menu-icon-current:before {
    content: "\f00c";
  }
  #tab_content {
    padding-top: 20px;
  }
  #running .panel-group .panel {
    margin-top: 3px;
    margin-bottom: 1em;
  }
  #running .panel-group .panel .panel-heading {
    background-color: #EEE;
    padding-top: 4px;
    padding-bottom: 4px;
    padding-left: 7px;
    padding-right: 7px;
    line-height: 22px;
  }
  #running .panel-group .panel .panel-heading a:focus,
  #running .panel-group .panel .panel-heading a:hover {
    text-decoration: none;
  }
  #running .panel-group .panel .panel-body {
    padding: 0px;
  }
  #running .panel-group .panel .panel-body .list_container {
    margin-top: 0px;
    margin-bottom: 0px;
    border: 0px;
    border-radius: 0px;
  }
  #running .panel-group .panel .panel-body .list_container .list_item {
    border-bottom: 1px solid #ddd;
  }
  #running .panel-group .panel .panel-body .list_container .list_item:last-child {
    border-bottom: 0px;
  }
  .delete-button {
    display: none;
  }
  .duplicate-button {
    display: none;
  }
  .rename-button {
    display: none;
  }
  .move-button {
    display: none;
  }
  .download-button {
    display: none;
  }
  .shutdown-button {
    display: none;
```

```
}
.dynamic-instructions {
  display: inline-block;
  padding-top: 4px;
}
/*!
*
* IPython text editor webapp
*
*/
.selected-keymap i.fa {
  padding: 0px 5px;
}
.selected-keymap i.fa:before {
  content: "\f00c";
}
#mode-menu {
  overflow: auto;
  max-height: 20em;
}
.edit_app #header {
  -webkit-box-shadow: 0px 0px 12px 1px rgba(87, 87, 87, 0.2);
  box-shadow: 0px 0px 12px 1px rgba(87, 87, 87, 0.2);
}
.edit_app #menubar .navbar {
  /* Use a negative 1 bottom margin, so the border overlaps the border of the
    header */
  margin-bottom: -1px;
}
.dirty-indicator {
  display: inline-block;
  font: normal normal normal 14px/1 FontAwesome;
  font-size: inherit;
  text-rendering: auto;
  -webkit-font-smoothing: antialiased;
  -moz-osx-font-smoothing: grayscale;
  width: 20px;
}
.dirty-indicator.fa-pull-left {
  margin-right: .3em;
}
.dirty-indicator.fa-pull-right {
  margin-left: .3em;
}
.dirty-indicator.pull-left {
  margin-right: .3em;
}
.dirty-indicator.pull-right {
  margin-left: .3em;
}
.dirty-indicator-dirty {
  display: inline-block;
  font: normal normal normal 14px/1 FontAwesome;
  font-size: inherit;
  text-rendering: auto;
  -webkit-font-smoothing: antialiased;
  -moz-osx-font-smoothing: grayscale;
  width: 20px;
}
.dirty-indicator-dirty.fa-pull-left {
  margin-right: .3em;
}
.dirty-indicator-dirty.fa-pull-right {
  margin-left: .3em;
}
```

```
.dirty-indicator-dirty.pull-left {
  margin-right: .3em;
}
.dirty-indicator-dirty.pull-right {
  margin-left: .3em;
}
.dirty-indicator-clean {
  display: inline-block;
  font: normal normal normal 14px/1 FontAwesome;
  font-size: inherit;
  text-rendering: auto;
  -webkit-font-smoothing: antialiased;
  -moz-osx-font-smoothing: grayscale;
  width: 20px;
}
.dirty-indicator-clean.fa-pull-left {
  margin-right: .3em;
}
.dirty-indicator-clean.fa-pull-right {
  margin-left: .3em;
}
.dirty-indicator-clean.pull-left {
  margin-right: .3em;
}
.dirty-indicator-clean.pull-right {
  margin-left: .3em;
}
.dirty-indicator-clean:before {
  display: inline-block;
  font: normal normal normal 14px/1 FontAwesome;
  font-size: inherit;
  text-rendering: auto;
  -webkit-font-smoothing: antialiased;
  -moz-osx-font-smoothing: grayscale;
  content: "\f00c";
}
.dirty-indicator-clean:before.fa-pull-left {
  margin-right: .3em;
}
.dirty-indicator-clean:before.fa-pull-right {
  margin-left: .3em;
}
.dirty-indicator-clean:before.pull-left {
  margin-right: .3em;
}
.dirty-indicator-clean:before.pull-right {
  margin-left: .3em;
}
#filename {
  font-size: 16pt;
  display: table;
  padding: 0px 5px;
}
#current-mode {
  padding-left: 5px;
  padding-right: 5px;
}
#texteditor-backdrop {
  padding-top: 20px;
  padding-bottom: 20px;
}
@media not print {
  #texteditor-backdrop {
    background-color: #EEE;
  }
```

```
}
@media print {
  #texteditor-backdrop #texteditor-container .CodeMirror-gutter,
  #texteditor-backdrop #texteditor-container .CodeMirror-gutters {
    background-color: #fff;
  }
}
@media not print {
  #texteditor-backdrop #texteditor-container .CodeMirror-gutter,
  #texteditor-backdrop #texteditor-container .CodeMirror-gutters {
    background-color: #fff;
  }
}
@media not print {
  #texteditor-backdrop #texteditor-container {
    padding: 0px;
    background-color: #fff;
    -webkit-box-shadow: 0px 0px 12px 1px rgba(87, 87, 87, 0.2);
    box-shadow: 0px 0px 12px 1px rgba(87, 87, 87, 0.2);
  }
}
.CodeMirror-dialog {
  background-color: #fff;
}
/*!
*
* IPython notebook
*
*/
/* CSS font colors for translated ANSI escape sequences */
/* The color values are a mix of
   http://www.xcolors.net/dl/baskerville-ivorylight and
   http://www.xcolors.net/dl/euphrasia */
.ansi-black-fg {
  color: #3E424D;
}
.ansi-black-bg {
  background-color: #3E424D;
}
.ansi-black-intense-fg {
  color: #282C36;
}
.ansi-black-intense-bg {
  background-color: #282C36;
}
.ansi-red-fg {
  color: #E75C58;
}
.ansi-red-bg {
  background-color: #E75C58;
}
.ansi-red-intense-fg {
  color: #B22B31;
}
.ansi-red-intense-bg {
  background-color: #B22B31;
}
.ansi-green-fg {
  color: #00A250;
}
.ansi-green-bg {
  background-color: #00A250;
}
.ansi-green-intense-fg {
  color: #007427;
```

```
}
.ansi-green-intense-bg {
  background-color: #007427;
}
.ansi-yellow-fg {
  color: #DDB62B;
}
.ansi-yellow-bg {
  background-color: #DDB62B;
}
.ansi-yellow-intense-fg {
  color: #B27D12;
}
.ansi-yellow-intense-bg {
  background-color: #B27D12;
}
.ansi-blue-fg {
  color: #208FFB;
}
.ansi-blue-bg {
  background-color: #208FFB;
}
.ansi-blue-intense-fg {
  color: #0065CA;
}
.ansi-blue-intense-bg {
  background-color: #0065CA;
}
.ansi-magenta-fg {
  color: #D160C4;
}
.ansi-magenta-bg {
  background-color: #D160C4;
}
.ansi-magenta-intense-fg {
  color: #A03196;
}
.ansi-magenta-intense-bg {
  background-color: #A03196;
}
.ansi-cyan-fg {
  color: #60C6C8;
}
.ansi-cyan-bg {
  background-color: #60C6C8;
}
.ansi-cyan-intense-fg {
  color: #258F8F;
}
.ansi-cyan-intense-bg {
  background-color: #258F8F;
}
.ansi-white-fg {
  color: #C5C1B4;
}
.ansi-white-bg {
  background-color: #C5C1B4;
}
.ansi-white-intense-fg {
  color: #A1A6B2;
}
.ansi-white-intense-bg {
  background-color: #A1A6B2;
}
.ansi-default-inverse-fg {
```

```
    color: #FFFFFF;
  }
  .ansi-default-inverse-bg {
    background-color: #000000;
  }
  .ansi-bold {
    font-weight: bold;
  }
  .ansi-underline {
    text-decoration: underline;
  }
  /* The following styles are deprecated an will be removed in a future version */
  .ansibold {
    font-weight: bold;
  }
  .ansi-inverse {
    outline: 0.5px dotted;
  }
  /* use dark versions for foreground, to improve visibility */
  .ansiblack {
    color: black;
  }
  .ansired {
    color: darkred;
  }
  .ansigreen {
    color: darkgreen;
  }
  .ansiyellow {
    color: #c4a000;
  }
  .ansiblue {
    color: darkblue;
  }
  .ansipurple {
    color: darkviolet;
  }
  .ansicyan {
    color: steelblue;
  }
  .ansigray {
    color: gray;
  }
  /* and light for background, for the same reason */
  .ansibgblack {
    background-color: black;
  }
  .ansibgred {
    background-color: red;
  }
  .ansibggreen {
    background-color: green;
  }
  .ansibgyellow {
    background-color: yellow;
  }
  .ansibgblue {
    background-color: blue;
  }
  .ansibgpurple {
    background-color: magenta;
  }
  .ansibgcyan {
    background-color: cyan;
  }
```

```
.ansibggray {
  background-color: gray;
}
div.cell {
  /* Old browsers */
  display: -webkit-box;
  -webkit-box-orient: vertical;
  -webkit-box-align: stretch;
  display: -moz-box;
  -moz-box-orient: vertical;
  -moz-box-align: stretch;
  display: box;
  box-orient: vertical;
  box-align: stretch;
  /* Modern browsers */
  display: flex;
  flex-direction: column;
  align-items: stretch;
  border-radius: 2px;
  box-sizing: border-box;
  -moz-box-sizing: border-box;
  -webkit-box-sizing: border-box;
  border-width: 1px;
  border-style: solid;
  border-color: transparent;
  width: 100%;
  padding: 5px;
  /* This acts as a spacer between cells, that is outside the border */
  margin: 0px;
  outline: none;
  position: relative;
  overflow: visible;
}
div.cell:before {
  position: absolute;
  display: block;
  top: -1px;
  left: -1px;
  width: 5px;
  height: calc(100% +  2px);
  content: '';
  background: transparent;
}
div.cell.jupyter-soft-selected {
  border-left-color: #E3F2FD;
  border-left-width: 1px;
  padding-left: 5px;
  border-right-color: #E3F2FD;
  border-right-width: 1px;
  background: #E3F2FD;
}
@media print {
  div.cell.jupyter-soft-selected {
    border-color: transparent;
  }
}
div.cell.selected,
div.cell.selected.jupyter-soft-selected {
  border-color: #ababab;
}
div.cell.selected:before,
div.cell.selected.jupyter-soft-selected:before {
  position: absolute;
  display: block;
  top: -1px;
```

```
    left: -1px;
    width: 5px;
    height: calc(100% +  2px);
    content: '';
    background: #42A5F5;
  }
  @media print {
    div.cell.selected,
    div.cell.selected.jupyter-soft-selected {
      border-color: transparent;
    }
  }
  .edit_mode div.cell.selected {
    border-color: #66BB6A;
  }
  .edit_mode div.cell.selected:before {
    position: absolute;
    display: block;
    top: -1px;
    left: -1px;
    width: 5px;
    height: calc(100% +  2px);
    content: '';
    background: #66BB6A;
  }
  @media print {
    .edit_mode div.cell.selected {
      border-color: transparent;
    }
  }
  .prompt {
    /* This needs to be wide enough for 3 digit prompt numbers: In[100]: */
    min-width: 14ex;
    /* This padding is tuned to match the padding on the CodeMirror editor. */
    padding: 0.4em;
    margin: 0px;
    font-family: monospace;
    text-align: right;
    /* This has to match that of the the CodeMirror class line-height below */
    line-height: 1.21429em;
    /* Don't highlight prompt number selection */
    -webkit-touch-callout: none;
    -webkit-user-select: none;
    -khtml-user-select: none;
    -moz-user-select: none;
    -ms-user-select: none;
    user-select: none;
    /* Use default cursor */
    cursor: default;
  }
  @media (max-width: 540px) {
    .prompt {
      text-align: left;
    }
  }
  div.inner_cell {
    min-width: 0;
    /* Old browsers */
    display: -webkit-box;
    -webkit-box-orient: vertical;
    -webkit-box-align: stretch;
    display: -moz-box;
    -moz-box-orient: vertical;
    -moz-box-align: stretch;
    display: box;
```

```
  box-orient: vertical;
  box-align: stretch;
  /* Modern browsers */
  display: flex;
  flex-direction: column;
  align-items: stretch;
  /* Old browsers */
  -webkit-box-flex: 1;
  -moz-box-flex: 1;
  box-flex: 1;
  /* Modern browsers */
  flex: 1;
}
/* input_area and input_prompt must match in top border and margin for alignment */
div.input_area {
  border: 1px solid #cfcfcf;
  border-radius: 2px;
  background: #f7f7f7;
  line-height: 1.21429em;
}
/* This is needed so that empty prompt areas can collapse to zero height when there
   is no content in the output_subarea and the prompt. The main purpose of this is
   to make sure that empty JavaScript output_subareas have no height. */
div.prompt:empty {
  padding-top: 0;
  padding-bottom: 0;
}
div.unrecognized_cell {
  padding: 5px 5px 5px 0px;
  /* Old browsers */
  display: -webkit-box;
  -webkit-box-orient: horizontal;
  -webkit-box-align: stretch;
  display: -moz-box;
  -moz-box-orient: horizontal;
  -moz-box-align: stretch;
  display: box;
  box-orient: horizontal;
  box-align: stretch;
  /* Modern browsers */
  display: flex;
  flex-direction: row;
  align-items: stretch;
}
div.unrecognized_cell .inner_cell {
  border-radius: 2px;
  padding: 5px;
  font-weight: bold;
  color: red;
  border: 1px solid #cfcfcf;
  background: #eaeaea;
}
div.unrecognized_cell .inner_cell a {
  color: inherit;
  text-decoration: none;
}
div.unrecognized_cell .inner_cell a:hover {
  color: inherit;
  text-decoration: none;
}
@media (max-width: 540px) {
  div.unrecognized_cell > div.prompt {
    display: none;
  }
}
```

```
div.code_cell {
  /* avoid page breaking on code cells when printing */
}
@media print {
  div.code_cell {
    page-break-inside: avoid;
  }
}
/* any special styling for code cells that are currently running goes here */
div.input {
  page-break-inside: avoid;
  /* Old browsers */
  display: -webkit-box;
  -webkit-box-orient: horizontal;
  -webkit-box-align: stretch;
  display: -moz-box;
  -moz-box-orient: horizontal;
  -moz-box-align: stretch;
  display: box;
  box-orient: horizontal;
  box-align: stretch;
  /* Modern browsers */
  display: flex;
  flex-direction: row;
  align-items: stretch;
}
@media (max-width: 540px) {
  div.input {
    /* Old browsers */
    display: -webkit-box;
    -webkit-box-orient: vertical;
    -webkit-box-align: stretch;
    display: -moz-box;
    -moz-box-orient: vertical;
    -moz-box-align: stretch;
    display: box;
    box-orient: vertical;
    box-align: stretch;
    /* Modern browsers */
    display: flex;
    flex-direction: column;
    align-items: stretch;
  }
}
/* input_area and input_prompt must match in top border and margin for alignment */
div.input_prompt {
  color: #303F9F;
  border-top: 1px solid transparent;
}
div.input_area > div.highlight {
  margin: 0.4em;
  border: none;
  padding: 0px;
  background-color: transparent;
}
div.input_area > div.highlight > pre {
  margin: 0px;
  border: none;
  padding: 0px;
  background-color: transparent;
}
/* The following gets added to the <head> if it is detected that the user has a
 * monospace font with inconsistent normal/bold/italic height.  See
 * notebookmain.js.  Such fonts will have keywords vertically offset with
 * respect to the rest of the text.  The user should select a better font.
```

```
 * See: https://github.com/ipython/ipython/issues/1503
 *
 * .CodeMirror span {
 *      vertical-align: bottom;
 * }
 */
.CodeMirror {
  line-height: 1.21429em;
  /* Changed from 1em to our global default */
  font-size: 14px;
  height: auto;
  /* Changed to auto to autogrow */
  background: none;
  /* Changed from white to allow our bg to show through */
}
.CodeMirror-scroll {
  /*  The CodeMirror docs are a bit fuzzy on if overflow-y should be hidden or visible.*/
  /*  We have found that if it is visible, vertical scrollbars appear with font size changes.*/
  overflow-y: hidden;
  overflow-x: auto;
}
.CodeMirror-lines {
  /* In CM2, this used to be 0.4em, but in CM3 it went to 4px. We need the em value because */
  /* we have set a different line-height and want this to scale with that. */
  /* Note that this should set vertical padding only, since CodeMirror assumes
       that horizontal padding will be set on CodeMirror pre */
  padding: 0.4em 0;
}
.CodeMirror-linenumber {
  padding: 0 8px 0 4px;
}
.CodeMirror-gutters {
  border-bottom-left-radius: 2px;
  border-top-left-radius: 2px;
}
.CodeMirror pre {
  /* In CM3 this went to 4px from 0 in CM2. This sets horizontal padding only,
    use .CodeMirror-lines for vertical */
  padding: 0 0.4em;
  border: 0;
  border-radius: 0;
}
.CodeMirror-cursor {
  border-left: 1.4px solid black;
}
@media screen and (min-width: 2138px) and (max-width: 4319px) {
  .CodeMirror-cursor {
    border-left: 2px solid black;
  }
}
@media screen and (min-width: 4320px) {
  .CodeMirror-cursor {
    border-left: 4px solid black;
  }
}
/*

Original style from softwaremaniacs.org (c) Ivan Sagalaev <Maniac@SoftwareManiacs.Org>
Adapted from GitHub theme

*/
.highlight-base {
  color: #000;
}
.highlight-variable {
```

```
    color: #000;
  }
  .highlight-variable-2 {
    color: #1a1a1a;
  }
  .highlight-variable-3 {
    color: #333333;
  }
  .highlight-string {
    color: #BA2121;
  }
  .highlight-comment {
    color: #408080;
    font-style: italic;
  }
  .highlight-number {
    color: #080;
  }
  .highlight-atom {
    color: #88F;
  }
  .highlight-keyword {
    color: #008000;
    font-weight: bold;
  }
  .highlight-builtin {
    color: #008000;
  }
  .highlight-error {
    color: #f00;
  }
  .highlight-operator {
    color: #AA22FF;
    font-weight: bold;
  }
  .highlight-meta {
    color: #AA22FF;
  }
  /* previously not defined, copying from default codemirror */
  .highlight-def {
    color: #00f;
  }
  .highlight-string-2 {
    color: #f50;
  }
  .highlight-qualifier {
    color: #555;
  }
  .highlight-bracket {
    color: #997;
  }
  .highlight-tag {
    color: #170;
  }
  .highlight-attribute {
    color: #00c;
  }
  .highlight-header {
    color: blue;
  }
  .highlight-quote {
    color: #090;
  }
  .highlight-link {
    color: #00c;
```

```
}
/* apply the same style to codemirror */
.cm-s-ipython span.cm-keyword {
  color: #008000;
  font-weight: bold;
}
.cm-s-ipython span.cm-atom {
  color: #88F;
}
.cm-s-ipython span.cm-number {
  color: #080;
}
.cm-s-ipython span.cm-def {
  color: #00f;
}
.cm-s-ipython span.cm-variable {
  color: #000;
}
.cm-s-ipython span.cm-operator {
  color: #AA22FF;
  font-weight: bold;
}
.cm-s-ipython span.cm-variable-2 {
  color: #1a1a1a;
}
.cm-s-ipython span.cm-variable-3 {
  color: #333333;
}
.cm-s-ipython span.cm-comment {
  color: #408080;
  font-style: italic;
}
.cm-s-ipython span.cm-string {
  color: #BA2121;
}
.cm-s-ipython span.cm-string-2 {
  color: #f50;
}
.cm-s-ipython span.cm-meta {
  color: #AA22FF;
}
.cm-s-ipython span.cm-qualifier {
  color: #555;
}
.cm-s-ipython span.cm-builtin {
  color: #008000;
}
.cm-s-ipython span.cm-bracket {
  color: #997;
}
.cm-s-ipython span.cm-tag {
  color: #170;
}
.cm-s-ipython span.cm-attribute {
  color: #00c;
}
.cm-s-ipython span.cm-header {
  color: blue;
}
.cm-s-ipython span.cm-quote {
  color: #090;
}
.cm-s-ipython span.cm-link {
  color: #00c;
}
```

```
.cm-s-ipython span.cm-error {
  color: #f00;
}
.cm-s-ipython span.cm-tab {
  background:
url(
t1LsRQFAQheHPowAKoACx3IgEKtaEHujDjORSgWTH/ZOdnZOcM/sgk/kFFWY0qV8foQwS4MKBCS3qR6ixBJvElOobYAtivseIE120
FaowJPN75GMu8j/LfMwNjh4HUpwg4LUAAAAASUVORK5CYII=);
  background-position: right;
  background-repeat: no-repeat;
}
div.output_wrapper {
  /* this position must be relative to enable descendents to be absolute within it */
  position: relative;
  /* Old browsers */
  display: -webkit-box;
  -webkit-box-orient: vertical;
  -webkit-box-align: stretch;
  display: -moz-box;
  -moz-box-orient: vertical;
  -moz-box-align: stretch;
  display: box;
  box-orient: vertical;
  box-align: stretch;
  /* Modern browsers */
  display: flex;
  flex-direction: column;
  align-items: stretch;
  z-index: 1;
}
/* class for the output area when it should be height-limited */
div.output_scroll {
  /* ideally, this would be max-height, but FF barfs all over that */
  height: 24em;
  /* FF needs this *and the wrapper* to specify full width, or it will shrinkwrap */
  width: 100%;
  overflow: auto;
  border-radius: 2px;
  -webkit-box-shadow: inset 0 2px 8px rgba(0, 0, 0, 0.8);
  box-shadow: inset 0 2px 8px rgba(0, 0, 0, 0.8);
  display: block;
}
/* output div while it is collapsed */
div.output_collapsed {
  margin: 0px;
  padding: 0px;
  /* Old browsers */
  display: -webkit-box;
  -webkit-box-orient: vertical;
  -webkit-box-align: stretch;
  display: -moz-box;
  -moz-box-orient: vertical;
  -moz-box-align: stretch;
  display: box;
  box-orient: vertical;
  box-align: stretch;
  /* Modern browsers */
  display: flex;
  flex-direction: column;
  align-items: stretch;
}
div.out_prompt_overlay {
  height: 100%;
  padding: 0px 0.4em;
  position: absolute;
```

```
    border-radius: 2px;
  }
  div.out_prompt_overlay:hover {
    /* use inner shadow to get border that is computed the same on WebKit/FF */
    -webkit-box-shadow: inset 0 0 1px #000;
    box-shadow: inset 0 0 1px #000;
    background: rgba(240, 240, 240, 0.5);
  }
  div.output_prompt {
    color: #D84315;
  }
  /* This class is the outer container of all output sections. */
  div.output_area {
    padding: 0px;
    page-break-inside: avoid;
    /* Old browsers */
    display: -webkit-box;
    -webkit-box-orient: horizontal;
    -webkit-box-align: stretch;
    display: -moz-box;
    -moz-box-orient: horizontal;
    -moz-box-align: stretch;
    display: box;
    box-orient: horizontal;
    box-align: stretch;
    /* Modern browsers */
    display: flex;
    flex-direction: row;
    align-items: stretch;
  }
  div.output_area .MathJax_Display {
    text-align: left !important;
  }
  div.output_area .rendered_html table {
    margin-left: 0;
    margin-right: 0;
  }
  div.output_area .rendered_html img {
    margin-left: 0;
    margin-right: 0;
  }
  div.output_area img,
  div.output_area svg {
    max-width: 100%;
    height: auto;
  }
  div.output_area img.unconfined,
  div.output_area svg.unconfined {
    max-width: none;
  }
  div.output_area .mglyph > img {
    max-width: none;
  }
  /* This is needed to protect the pre formating from global settings such
     as that of bootstrap */
  .output {
    /* Old browsers */
    display: -webkit-box;
    -webkit-box-orient: vertical;
    -webkit-box-align: stretch;
    display: -moz-box;
    -moz-box-orient: vertical;
    -moz-box-align: stretch;
    display: box;
    box-orient: vertical;
```

```
    box-align: stretch;
    /* Modern browsers */
    display: flex;
    flex-direction: column;
    align-items: stretch;
  }
  @media (max-width: 540px) {
    div.output_area {
      /* Old browsers */
      display: -webkit-box;
      -webkit-box-orient: vertical;
      -webkit-box-align: stretch;
      display: -moz-box;
      -moz-box-orient: vertical;
      -moz-box-align: stretch;
      display: box;
      box-orient: vertical;
      box-align: stretch;
      /* Modern browsers */
      display: flex;
      flex-direction: column;
      align-items: stretch;
    }
  }
  div.output_area pre {
    margin: 0;
    padding: 1px 0 1px 0;
    border: 0;
    vertical-align: baseline;
    color: black;
    background-color: transparent;
    border-radius: 0;
  }
  /* This class is for the output subarea inside the output_area and after
     the prompt div. */
  div.output_subarea {
    overflow-x: auto;
    padding: 0.4em;
    /* Old browsers */
    -webkit-box-flex: 1;
    -moz-box-flex: 1;
    box-flex: 1;
    /* Modern browsers */
    flex: 1;
    max-width: calc(100% - 14ex);
  }
  div.output_scroll div.output_subarea {
    overflow-x: visible;
  }
  /* The rest of the output_* classes are for special styling of the different
     output types */
  /* all text output has this class: */
  div.output_text {
    text-align: left;
    color: #000;
    /* This has to match that of the the CodeMirror class line-height below */
    line-height: 1.21429em;
  }
  /* stdout/stderr are 'text' as well as 'stream', but execute_result/error are *not* streams */
  div.output_stderr {
    background: #fdd;
    /* very light red background for stderr */
  }
  div.output_latex {
    text-align: left;
```

```
}
/* Empty output_javascript divs should have no height */
div.output_javascript:empty {
  padding: 0;
}
.js-error {
  color: darkred;
}
/* raw_input styles */
div.raw_input_container {
  line-height: 1.21429em;
  padding-top: 5px;
}
pre.raw_input_prompt {
  /* nothing needed here. */
}
input.raw_input {
  font-family: monospace;
  font-size: inherit;
  color: inherit;
  width: auto;
  /* make sure input baseline aligns with prompt */
  vertical-align: baseline;
  /* padding + margin = 0.5em between prompt and cursor */
  padding: 0em 0.25em;
  margin: 0em 0.25em;
}
input.raw_input:focus {
  box-shadow: none;
}
p.p-space {
  margin-bottom: 10px;
}
div.output_unrecognized {
  padding: 5px;
  font-weight: bold;
  color: red;
}
div.output_unrecognized a {
  color: inherit;
  text-decoration: none;
}
div.output_unrecognized a:hover {
  color: inherit;
  text-decoration: none;
}
.rendered_html {
  color: #000;
  /* any extras will just be numbers: */
}
.rendered_html em {
  font-style: italic;
}
.rendered_html strong {
  font-weight: bold;
}
.rendered_html u {
  text-decoration: underline;
}
.rendered_html :link {
  text-decoration: underline;
}
.rendered_html :visited {
  text-decoration: underline;
}
```

```
.rendered_html h1 {
  font-size: 185.7%;
  margin: 1.08em 0 0 0;
  font-weight: bold;
  line-height: 1.0;
}
.rendered_html h2 {
  font-size: 157.1%;
  margin: 1.27em 0 0 0;
  font-weight: bold;
  line-height: 1.0;
}
.rendered_html h3 {
  font-size: 128.6%;
  margin: 1.55em 0 0 0;
  font-weight: bold;
  line-height: 1.0;
}
.rendered_html h4 {
  font-size: 100%;
  margin: 2em 0 0 0;
  font-weight: bold;
  line-height: 1.0;
}
.rendered_html h5 {
  font-size: 100%;
  margin: 2em 0 0 0;
  font-weight: bold;
  line-height: 1.0;
  font-style: italic;
}
.rendered_html h6 {
  font-size: 100%;
  margin: 2em 0 0 0;
  font-weight: bold;
  line-height: 1.0;
  font-style: italic;
}
.rendered_html h1:first-child {
  margin-top: 0.538em;
}
.rendered_html h2:first-child {
  margin-top: 0.636em;
}
.rendered_html h3:first-child {
  margin-top: 0.777em;
}
.rendered_html h4:first-child {
  margin-top: 1em;
}
.rendered_html h5:first-child {
  margin-top: 1em;
}
.rendered_html h6:first-child {
  margin-top: 1em;
}
.rendered_html ul:not(.list-inline),
.rendered_html ol:not(.list-inline) {
  padding-left: 2em;
}
.rendered_html ul {
  list-style: disc;
}
.rendered_html ul ul {
  list-style: square;
```

```
    margin-top: 0;
  }
  .rendered_html ul ul ul {
    list-style: circle;
  }
  .rendered_html ol {
    list-style: decimal;
  }
  .rendered_html ol ol {
    list-style: upper-alpha;
    margin-top: 0;
  }
  .rendered_html ol ol ol {
    list-style: lower-alpha;
  }
  .rendered_html ol ol ol ol {
    list-style: lower-roman;
  }
  .rendered_html ol ol ol ol ol {
    list-style: decimal;
  }
  .rendered_html * + ul {
    margin-top: 1em;
  }
  .rendered_html * + ol {
    margin-top: 1em;
  }
  .rendered_html hr {
    color: black;
    background-color: black;
  }
  .rendered_html pre {
    margin: 1em 2em;
    padding: 0px;
    background-color: #fff;
  }
  .rendered_html code {
    background-color: #eff0f1;
  }
  .rendered_html p code {
    padding: 1px 5px;
  }
  .rendered_html pre code {
    background-color: #fff;
  }
  .rendered_html pre,
  .rendered_html code {
    border: 0;
    color: #000;
    font-size: 100%;
  }
  .rendered_html blockquote {
    margin: 1em 2em;
  }
  .rendered_html table {
    margin-left: auto;
    margin-right: auto;
    border: none;
    border-collapse: collapse;
    border-spacing: 0;
    color: black;
    font-size: 12px;
    table-layout: fixed;
  }
  .rendered_html thead {
```

```
    border-bottom: 1px solid black;
    vertical-align: bottom;
  }
  .rendered_html tr,
  .rendered_html th,
  .rendered_html td {
    text-align: right;
    vertical-align: middle;
    padding: 0.5em 0.5em;
    line-height: normal;
    white-space: normal;
    max-width: none;
    border: none;
  }
  .rendered_html th {
    font-weight: bold;
  }
  .rendered_html tbody tr:nth-child(odd) {
    background: #f5f5f5;
  }
  .rendered_html tbody tr:hover {
    background: rgba(66, 165, 245, 0.2);
  }
  .rendered_html * + table {
    margin-top: 1em;
  }
  .rendered_html p {
    text-align: left;
  }
  .rendered_html * + p {
    margin-top: 1em;
  }
  .rendered_html img {
    display: block;
    margin-left: auto;
    margin-right: auto;
  }
  .rendered_html * + img {
    margin-top: 1em;
  }
  .rendered_html img,
  .rendered_html svg {
    max-width: 100%;
    height: auto;
  }
  .rendered_html img.unconfined,
  .rendered_html svg.unconfined {
    max-width: none;
  }
  .rendered_html .alert {
    margin-bottom: initial;
  }
  .rendered_html * + .alert {
    margin-top: 1em;
  }
  [dir="rtl"] .rendered_html p {
    text-align: right;
  }
  div.text_cell {
    /* Old browsers */
    display: -webkit-box;
    -webkit-box-orient: horizontal;
    -webkit-box-align: stretch;
    display: -moz-box;
    -moz-box-orient: horizontal;
```

```
    -moz-box-align: stretch;
    display: box;
    box-orient: horizontal;
    box-align: stretch;
    /* Modern browsers */
    display: flex;
    flex-direction: row;
    align-items: stretch;
  }
  @media (max-width: 540px) {
    div.text_cell > div.prompt {
      display: none;
    }
  }
  div.text_cell_render {
    /*font-family: "Helvetica Neue", Arial, Helvetica, Geneva, sans-serif;*/
    outline: none;
    resize: none;
    width: inherit;
    border-style: none;
    padding: 0.5em 0.5em 0.5em 0.4em;
    color: #000;
    box-sizing: border-box;
    -moz-box-sizing: border-box;
    -webkit-box-sizing: border-box;
  }
  a.anchor-link:link {
    text-decoration: none;
    padding: 0px 20px;
    visibility: hidden;
  }
  h1:hover .anchor-link,
  h2:hover .anchor-link,
  h3:hover .anchor-link,
  h4:hover .anchor-link,
  h5:hover .anchor-link,
  h6:hover .anchor-link {
    visibility: visible;
  }
  .text_cell.rendered .input_area {
    display: none;
  }
  .text_cell.rendered .rendered_html {
    overflow-x: auto;
    overflow-y: hidden;
  }
  .text_cell.rendered .rendered_html tr,
  .text_cell.rendered .rendered_html th,
  .text_cell.rendered .rendered_html td {
    max-width: none;
  }
  .text_cell.unrendered .text_cell_render {
    display: none;
  }
  .text_cell .dropzone .input_area {
    border: 2px dashed #bababa;
    margin: -1px;
  }
  .cm-header-1,
  .cm-header-2,
  .cm-header-3,
  .cm-header-4,
  .cm-header-5,
  .cm-header-6 {
    font-weight: bold;
```

```
    font-family: "Helvetica Neue", Helvetica, Arial, sans-serif;
  }
  .cm-header-1 {
    font-size: 185.7%;
  }
  .cm-header-2 {
    font-size: 157.1%;
  }
  .cm-header-3 {
    font-size: 128.6%;
  }
  .cm-header-4 {
    font-size: 110%;
  }
  .cm-header-5 {
    font-size: 100%;
    font-style: italic;
  }
  .cm-header-6 {
    font-size: 100%;
    font-style: italic;
  }
  /*!
  *
  * IPython notebook webapp
  *
  */
  @media (max-width: 767px) {
    .notebook_app {
      padding-left: 0px;
      padding-right: 0px;
    }
  }
  #ipython-main-app {
    box-sizing: border-box;
    -moz-box-sizing: border-box;
    -webkit-box-sizing: border-box;
    height: 100%;
  }
  div#notebook_panel {
    margin: 0px;
    padding: 0px;
    box-sizing: border-box;
    -moz-box-sizing: border-box;
    -webkit-box-sizing: border-box;
    height: 100%;
  }
  div#notebook {
    font-size: 14px;
    line-height: 20px;
    overflow-y: hidden;
    overflow-x: auto;
    width: 100%;
    /* This spaces the page away from the edge of the notebook area */
    padding-top: 20px;
    margin: 0px;
    outline: none;
    box-sizing: border-box;
    -moz-box-sizing: border-box;
    -webkit-box-sizing: border-box;
    min-height: 100%;
  }
  @media not print {
    #notebook-container {
      padding: 15px;
```

```
    background-color: #fff;
    min-height: 0;
    -webkit-box-shadow: 0px 0px 12px 1px rgba(87, 87, 87, 0.2);
    box-shadow: 0px 0px 12px 1px rgba(87, 87, 87, 0.2);
  }
}
@media print {
  #notebook-container {
    width: 100%;
  }
}
div.ui-widget-content {
  border: 1px solid #ababab;
  outline: none;
}
pre.dialog {
  background-color: #f7f7f7;
  border: 1px solid #ddd;
  border-radius: 2px;
  padding: 0.4em;
  padding-left: 2em;
}
p.dialog {
  padding: 0.2em;
}
/* Word-wrap output correctly.  This is the CSS3 spelling, though Firefox seems
   to not honor it correctly.  Webkit browsers (Chrome, rekonq, Safari) do.
 */
pre,
code,
kbd,
samp {
  white-space: pre-wrap;
}
#fonttest {
  font-family: monospace;
}
p {
  margin-bottom: 0;
}
.end_space {
  min-height: 100px;
  transition: height .2s ease;
}
.notebook_app > #header {
  -webkit-box-shadow: 0px 0px 12px 1px rgba(87, 87, 87, 0.2);
  box-shadow: 0px 0px 12px 1px rgba(87, 87, 87, 0.2);
}
@media not print {
  .notebook_app {
    background-color: #EEE;
  }
}
kbd {
  border-style: solid;
  border-width: 1px;
  box-shadow: none;
  margin: 2px;
  padding-left: 2px;
  padding-right: 2px;
  padding-top: 1px;
  padding-bottom: 1px;
}
.jupyter-keybindings {
  padding: 1px;
```

```
  line-height: 24px;
  border-bottom: 1px solid gray;
}
.jupyter-keybindings input {
  margin: 0;
  padding: 0;
  border: none;
}
.jupyter-keybindings i {
  padding: 6px;
}
.well code {
  background-color: #ffffff;
  border-color: #ababab;
  border-width: 1px;
  border-style: solid;
  padding: 2px;
  padding-top: 1px;
  padding-bottom: 1px;
}
/* CSS for the cell toolbar */
.celltoolbar {
  border: thin solid #CFCFCF;
  border-bottom: none;
  background: #EEE;
  border-radius: 2px 2px 0px 0px;
  width: 100%;
  height: 29px;
  padding-right: 4px;
  /* Old browsers */
  display: -webkit-box;
  -webkit-box-orient: horizontal;
  -webkit-box-align: stretch;
  display: -moz-box;
  -moz-box-orient: horizontal;
  -moz-box-align: stretch;
  display: box;
  box-orient: horizontal;
  box-align: stretch;
  /* Modern browsers */
  display: flex;
  flex-direction: row;
  align-items: stretch;
  /* Old browsers */
  -webkit-box-pack: end;
  -moz-box-pack: end;
  box-pack: end;
  /* Modern browsers */
  justify-content: flex-end;
  display: -webkit-flex;
}
@media print {
  .celltoolbar {
    display: none;
  }
}
.ctb_hideshow {
  display: none;
  vertical-align: bottom;
}
/* ctb_show is added to the ctb_hideshow div to show the cell toolbar.
   Cell toolbars are only shown when the ctb_global_show class is also set.
*/
.ctb_global_show .ctb_show.ctb_hideshow {
  display: block;
```

```
}
.ctb_global_show .ctb_show + .input_area,
.ctb_global_show .ctb_show + div.text_cell_input,
.ctb_global_show .ctb_show ~ div.text_cell_render {
  border-top-right-radius: 0px;
  border-top-left-radius: 0px;
}
.ctb_global_show .ctb_show ~ div.text_cell_render {
  border: 1px solid #cfcfcf;
}
.celltoolbar {
  font-size: 87%;
  padding-top: 3px;
}
.celltoolbar select {
  display: block;
  width: 100%;
  height: 32px;
  padding: 6px 12px;
  font-size: 13px;
  line-height: 1.42857143;
  color: #555555;
  background-color: #fff;
  background-image: none;
  border: 1px solid #ccc;
  border-radius: 2px;
  -webkit-box-shadow: inset 0 1px 1px rgba(0, 0, 0, 0.075);
  box-shadow: inset 0 1px 1px rgba(0, 0, 0, 0.075);
  -webkit-transition: border-color ease-in-out .15s, box-shadow ease-in-out .15s;
  -o-transition: border-color ease-in-out .15s, box-shadow ease-in-out .15s;
  transition: border-color ease-in-out .15s, box-shadow ease-in-out .15s;
  height: 30px;
  padding: 5px 10px;
  font-size: 12px;
  line-height: 1.5;
  border-radius: 1px;
  width: inherit;
  font-size: inherit;
  height: 22px;
  padding: 0px;
  display: inline-block;
}
.celltoolbar select:focus {
  border-color: #66afe9;
  outline: 0;
  -webkit-box-shadow: inset 0 1px 1px rgba(0,0,0,.075), 0 0 8px rgba(102, 175, 233, 0.6);
  box-shadow: inset 0 1px 1px rgba(0,0,0,.075), 0 0 8px rgba(102, 175, 233, 0.6);
}
.celltoolbar select::-moz-placeholder {
  color: #999;
  opacity: 1;
}
.celltoolbar select:-ms-input-placeholder {
  color: #999;
}
.celltoolbar select::-webkit-input-placeholder {
  color: #999;
}
.celltoolbar select::-ms-expand {
  border: 0;
  background-color: transparent;
}
.celltoolbar select[disabled],
.celltoolbar select[readonly],
fieldset[disabled] .celltoolbar select {
```

```
    background-color: #eeeeee;
    opacity: 1;
  }
  .celltoolbar select[disabled],
  fieldset[disabled] .celltoolbar select {
    cursor: not-allowed;
  }
  textarea.celltoolbar select {
    height: auto;
  }
  select.celltoolbar select {
    height: 30px;
    line-height: 30px;
  }
  textarea.celltoolbar select,
  select[multiple].celltoolbar select {
    height: auto;
  }
  .celltoolbar label {
    margin-left: 5px;
    margin-right: 5px;
  }
  .tags_button_container {
    width: 100%;
    display: flex;
  }
  .tag-container {
    display: flex;
    flex-direction: row;
    flex-grow: 1;
    overflow: hidden;
    position: relative;
  }
  .tag-container > * {
    margin: 0 4px;
  }
  .remove-tag-btn {
    margin-left: 4px;
  }
  .tags-input {
    display: flex;
  }
  .cell-tag:last-child:after {
    content: "";
    position: absolute;
    right: 0;
    width: 40px;
    height: 100%;
    /* Fade to background color of cell toolbar */
    background: linear-gradient(to right, rgba(0, 0, 0, 0), #EEE);
  }
  .tags-input > * {
    margin-left: 4px;
  }
  .cell-tag,
  .tags-input input,
  .tags-input button {
    display: block;
    width: 100%;
    height: 32px;
    padding: 6px 12px;
    font-size: 13px;
    line-height: 1.42857143;
    color: #555555;
    background-color: #fff;
```

```
    background-image: none;
    border: 1px solid #ccc;
    border-radius: 2px;
    -webkit-box-shadow: inset 0 1px 1px rgba(0, 0, 0, 0.075);
    box-shadow: inset 0 1px 1px rgba(0, 0, 0, 0.075);
    -webkit-transition: border-color ease-in-out .15s, box-shadow ease-in-out .15s;
    -o-transition: border-color ease-in-out .15s, box-shadow ease-in-out .15s;
    transition: border-color ease-in-out .15s, box-shadow ease-in-out .15s;
    height: 30px;
    padding: 5px 10px;
    font-size: 12px;
    line-height: 1.5;
    border-radius: 1px;
    box-shadow: none;
    width: inherit;
    font-size: inherit;
    height: 22px;
    line-height: 22px;
    padding: 0px 4px;
    display: inline-block;
  }
  .cell-tag:focus,
  .tags-input input:focus,
  .tags-input button:focus {
    border-color: #66afe9;
    outline: 0;
    -webkit-box-shadow: inset 0 1px 1px rgba(0,0,0,.075), 0 0 8px rgba(102, 175, 233, 0.6);
    box-shadow: inset 0 1px 1px rgba(0,0,0,.075), 0 0 8px rgba(102, 175, 233, 0.6);
  }
  .cell-tag::-moz-placeholder,
  .tags-input input::-moz-placeholder,
  .tags-input button::-moz-placeholder {
    color: #999;
    opacity: 1;
  }
  .cell-tag:-ms-input-placeholder,
  .tags-input input:-ms-input-placeholder,
  .tags-input button:-ms-input-placeholder {
    color: #999;
  }
  .cell-tag::-webkit-input-placeholder,
  .tags-input input::-webkit-input-placeholder,
  .tags-input button::-webkit-input-placeholder {
    color: #999;
  }
  .cell-tag::-ms-expand,
  .tags-input input::-ms-expand,
  .tags-input button::-ms-expand {
    border: 0;
    background-color: transparent;
  }
  .cell-tag[disabled],
  .tags-input input[disabled],
  .tags-input button[disabled],
  .cell-tag[readonly],
  .tags-input input[readonly],
  .tags-input button[readonly],
  fieldset[disabled] .cell-tag,
  fieldset[disabled] .tags-input input,
  fieldset[disabled] .tags-input button {
    background-color: #eeeeee;
    opacity: 1;
  }
  .cell-tag[disabled],
  .tags-input input[disabled],
```

```
.tags-input button[disabled],
fieldset[disabled] .cell-tag,
fieldset[disabled] .tags-input input,
fieldset[disabled] .tags-input button {
  cursor: not-allowed;
}
textarea.cell-tag,
textarea.tags-input input,
textarea.tags-input button {
  height: auto;
}
select.cell-tag,
select.tags-input input,
select.tags-input button {
  height: 30px;
  line-height: 30px;
}
textarea.cell-tag,
textarea.tags-input input,
textarea.tags-input button,
select[multiple].cell-tag,
select[multiple].tags-input input,
select[multiple].tags-input button {
  height: auto;
}
.cell-tag,
.tags-input button {
  padding: 0px 4px;
}
.cell-tag {
  background-color: #fff;
  white-space: nowrap;
}
.tags-input input[type=text]:focus {
  outline: none;
  box-shadow: none;
  border-color: #ccc;
}
.completions {
  position: absolute;
  z-index: 110;
  overflow: hidden;
  border: 1px solid #ababab;
  border-radius: 2px;
  -webkit-box-shadow: 0px 6px 10px -1px #adadad;
  box-shadow: 0px 6px 10px -1px #adadad;
  line-height: 1;
}
.completions select {
  background: white;
  outline: none;
  border: none;
  padding: 0px;
  margin: 0px;
  overflow: auto;
  font-family: monospace;
  font-size: 110%;
  color: #000;
  width: auto;
}
.completions select option.context {
  color: #286090;
}
#kernel_logo_widget .current_kernel_logo {
  display: none;
```

```
    margin-top: -1px;
    margin-bottom: -1px;
    width: 32px;
    height: 32px;
  }
  [dir="rtl"] #kernel_logo_widget {
    float: left !important;
    float: left;
  }
  .modal .modal-body .move-path {
    display: flex;
    flex-direction: row;
    justify-content: space;
    align-items: center;
  }
  .modal .modal-body .move-path .server-root {
    padding-right: 20px;
  }
  .modal .modal-body .move-path .path-input {
    flex: 1;
  }
  #menubar {
    box-sizing: border-box;
    -moz-box-sizing: border-box;
    -webkit-box-sizing: border-box;
    margin-top: 1px;
  }
  #menubar .navbar {
    border-top: 1px;
    border-radius: 0px 0px 2px 2px;
    margin-bottom: 0px;
  }
  #menubar .navbar-toggle {
    float: left;
    padding-top: 7px;
    padding-bottom: 7px;
    border: none;
  }
  #menubar .navbar-collapse {
    clear: left;
  }
  [dir="rtl"] #menubar .navbar-toggle {
    float: right;
  }
  [dir="rtl"] #menubar .navbar-collapse {
    clear: right;
  }
  [dir="rtl"] #menubar .navbar-nav {
    float: right;
  }
  [dir="rtl"] #menubar .nav {
    padding-right: 0px;
  }
  [dir="rtl"] #menubar .navbar-nav > li {
    float: right;
  }
  [dir="rtl"] #menubar .navbar-right {
    float: left !important;
  }
  [dir="rtl"] ul.dropdown-menu {
    text-align: right;
    left: auto;
  }
  [dir="rtl"] ul#new-menu.dropdown-menu {
    right: auto;
```

```
    left: 0;
  }
  .nav-wrapper {
    border-bottom: 1px solid #e7e7e7;
  }
  i.menu-icon {
    padding-top: 4px;
  }
  [dir="rtl"] i.menu-icon.pull-right {
    float: left !important;
    float: left;
  }
  ul#help_menu li a {
    overflow: hidden;
    padding-right: 2.2em;
  }
  ul#help_menu li a i {
    margin-right: -1.2em;
  }
  [dir="rtl"] ul#help_menu li a {
    padding-left: 2.2em;
  }
  [dir="rtl"] ul#help_menu li a i {
    margin-right: 0;
    margin-left: -1.2em;
  }
  [dir="rtl"] ul#help_menu li a i.pull-right {
    float: left !important;
    float: left;
  }
  .dropdown-submenu {
    position: relative;
  }
  .dropdown-submenu > .dropdown-menu {
    top: 0;
    left: 100%;
    margin-top: -6px;
    margin-left: -1px;
  }
  [dir="rtl"] .dropdown-submenu > .dropdown-menu {
    right: 100%;
    margin-right: -1px;
  }
  .dropdown-submenu:hover > .dropdown-menu {
    display: block;
  }
  .dropdown-submenu > a:after {
    display: inline-block;
    font: normal normal normal 14px/1 FontAwesome;
    font-size: inherit;
    text-rendering: auto;
    -webkit-font-smoothing: antialiased;
    -moz-osx-font-smoothing: grayscale;
    display: block;
    content: "\f0da";
    float: right;
    color: #333333;
    margin-top: 2px;
    margin-right: -10px;
  }
  .dropdown-submenu > a:after.fa-pull-left {
    margin-right: .3em;
  }
  .dropdown-submenu > a:after.fa-pull-right {
    margin-left: .3em;
```

```
}
.dropdown-submenu > a:after.pull-left {
  margin-right: .3em;
}
.dropdown-submenu > a:after.pull-right {
  margin-left: .3em;
}
[dir="rtl"] .dropdown-submenu > a:after {
  float: left;
  content: "\f0d9";
  margin-right: 0;
  margin-left: -10px;
}
.dropdown-submenu:hover > a:after {
  color: #262626;
}
.dropdown-submenu.pull-left {
  float: none;
}
.dropdown-submenu.pull-left > .dropdown-menu {
  left: -100%;
  margin-left: 10px;
}
#notification_area {
  float: right !important;
  float: right;
  z-index: 10;
}
[dir="rtl"] #notification_area {
  float: left !important;
  float: left;
}
.indicator_area {
  float: right !important;
  float: right;
  color: #777;
  margin-left: 5px;
  margin-right: 5px;
  width: 11px;
  z-index: 10;
  text-align: center;
  width: auto;
}
[dir="rtl"] .indicator_area {
  float: left !important;
  float: left;
}
#kernel_indicator {
  float: right !important;
  float: right;
  color: #777;
  margin-left: 5px;
  margin-right: 5px;
  width: 11px;
  z-index: 10;
  text-align: center;
  width: auto;
  border-left: 1px solid;
}
#kernel_indicator .kernel_indicator_name {
  padding-left: 5px;
  padding-right: 5px;
}
[dir="rtl"] #kernel_indicator {
  float: left !important;
```

```
    float: left;
    border-left: 0;
    border-right: 1px solid;
  }
  #modal_indicator {
    float: right !important;
    float: right;
    color: #777;
    margin-left: 5px;
    margin-right: 5px;
    width: 11px;
    z-index: 10;
    text-align: center;
    width: auto;
  }
  [dir="rtl"] #modal_indicator {
    float: left !important;
    float: left;
  }
  #readonly-indicator {
    float: right !important;
    float: right;
    color: #777;
    margin-left: 5px;
    margin-right: 5px;
    width: 11px;
    z-index: 10;
    text-align: center;
    width: auto;
    margin-top: 2px;
    margin-bottom: 0px;
    margin-left: 0px;
    margin-right: 0px;
    display: none;
  }
  .modal_indicator:before {
    width: 1.28571429em;
    text-align: center;
  }
  .edit_mode .modal_indicator:before {
    display: inline-block;
    font: normal normal normal 14px/1 FontAwesome;
    font-size: inherit;
    text-rendering: auto;
    -webkit-font-smoothing: antialiased;
    -moz-osx-font-smoothing: grayscale;
    content: "\f040";
  }
  .edit_mode .modal_indicator:before.fa-pull-left {
    margin-right: .3em;
  }
  .edit_mode .modal_indicator:before.fa-pull-right {
    margin-left: .3em;
  }
  .edit_mode .modal_indicator:before.pull-left {
    margin-right: .3em;
  }
  .edit_mode .modal_indicator:before.pull-right {
    margin-left: .3em;
  }
  .command_mode .modal_indicator:before {
    display: inline-block;
    font: normal normal normal 14px/1 FontAwesome;
    font-size: inherit;
    text-rendering: auto;
```

```
    -webkit-font-smoothing: antialiased;
    -moz-osx-font-smoothing: grayscale;
    content: ' ';
  }
  .command_mode .modal_indicator:before.fa-pull-left {
    margin-right: .3em;
  }
  .command_mode .modal_indicator:before.fa-pull-right {
    margin-left: .3em;
  }
  .command_mode .modal_indicator:before.pull-left {
    margin-right: .3em;
  }
  .command_mode .modal_indicator:before.pull-right {
    margin-left: .3em;
  }
  .kernel_idle_icon:before {
    display: inline-block;
    font: normal normal normal 14px/1 FontAwesome;
    font-size: inherit;
    text-rendering: auto;
    -webkit-font-smoothing: antialiased;
    -moz-osx-font-smoothing: grayscale;
    content: "\f10c";
  }
  .kernel_idle_icon:before.fa-pull-left {
    margin-right: .3em;
  }
  .kernel_idle_icon:before.fa-pull-right {
    margin-left: .3em;
  }
  .kernel_idle_icon:before.pull-left {
    margin-right: .3em;
  }
  .kernel_idle_icon:before.pull-right {
    margin-left: .3em;
  }
  .kernel_busy_icon:before {
    display: inline-block;
    font: normal normal normal 14px/1 FontAwesome;
    font-size: inherit;
    text-rendering: auto;
    -webkit-font-smoothing: antialiased;
    -moz-osx-font-smoothing: grayscale;
    content: "\f111";
  }
  .kernel_busy_icon:before.fa-pull-left {
    margin-right: .3em;
  }
  .kernel_busy_icon:before.fa-pull-right {
    margin-left: .3em;
  }
  .kernel_busy_icon:before.pull-left {
    margin-right: .3em;
  }
  .kernel_busy_icon:before.pull-right {
    margin-left: .3em;
  }
  .kernel_dead_icon:before {
    display: inline-block;
    font: normal normal normal 14px/1 FontAwesome;
    font-size: inherit;
    text-rendering: auto;
    -webkit-font-smoothing: antialiased;
    -moz-osx-font-smoothing: grayscale;
```

```
    content: "\f1e2";
  }
  .kernel_dead_icon:before.fa-pull-left {
    margin-right: .3em;
  }
  .kernel_dead_icon:before.fa-pull-right {
    margin-left: .3em;
  }
  .kernel_dead_icon:before.pull-left {
    margin-right: .3em;
  }
  .kernel_dead_icon:before.pull-right {
    margin-left: .3em;
  }
  .kernel_disconnected_icon:before {
    display: inline-block;
    font: normal normal normal 14px/1 FontAwesome;
    font-size: inherit;
    text-rendering: auto;
    -webkit-font-smoothing: antialiased;
    -moz-osx-font-smoothing: grayscale;
    content: "\f127";
  }
  .kernel_disconnected_icon:before.fa-pull-left {
    margin-right: .3em;
  }
  .kernel_disconnected_icon:before.fa-pull-right {
    margin-left: .3em;
  }
  .kernel_disconnected_icon:before.pull-left {
    margin-right: .3em;
  }
  .kernel_disconnected_icon:before.pull-right {
    margin-left: .3em;
  }
  .notification_widget {
    color: #777;
    z-index: 10;
    background: rgba(240, 240, 240, 0.5);
    margin-right: 4px;
    color: #333;
    background-color: #fff;
    border-color: #ccc;
  }
  .notification_widget:focus,
  .notification_widget.focus {
    color: #333;
    background-color: #e6e6e6;
    border-color: #8c8c8c;
  }
  .notification_widget:hover {
    color: #333;
    background-color: #e6e6e6;
    border-color: #adadad;
  }
  .notification_widget:active,
  .notification_widget.active,
  .open > .dropdown-toggle.notification_widget {
    color: #333;
    background-color: #e6e6e6;
    border-color: #adadad;
  }
  .notification_widget:active:hover,
  .notification_widget.active:hover,
  .open > .dropdown-toggle.notification_widget:hover,
```

```
.notification_widget:active:focus,
.notification_widget.active:focus,
.open > .dropdown-toggle.notification_widget:focus,
.notification_widget:active.focus,
.notification_widget.active.focus,
.open > .dropdown-toggle.notification_widget.focus {
  color: #333;
  background-color: #d4d4d4;
  border-color: #8c8c8c;
}
.notification_widget:active,
.notification_widget.active,
.open > .dropdown-toggle.notification_widget {
  background-image: none;
}
.notification_widget.disabled:hover,
.notification_widget[disabled]:hover,
fieldset[disabled] .notification_widget:hover,
.notification_widget.disabled:focus,
.notification_widget[disabled]:focus,
fieldset[disabled] .notification_widget:focus,
.notification_widget.disabled.focus,
.notification_widget[disabled].focus,
fieldset[disabled] .notification_widget.focus {
  background-color: #fff;
  border-color: #ccc;
}
.notification_widget .badge {
  color: #fff;
  background-color: #333;
}
.notification_widget.warning {
  color: #fff;
  background-color: #f0ad4e;
  border-color: #eea236;
}
.notification_widget.warning:focus,
.notification_widget.warning.focus {
  color: #fff;
  background-color: #ec971f;
  border-color: #985f0d;
}
.notification_widget.warning:hover {
  color: #fff;
  background-color: #ec971f;
  border-color: #d58512;
}
.notification_widget.warning:active,
.notification_widget.warning.active,
.open > .dropdown-toggle.notification_widget.warning {
  color: #fff;
  background-color: #ec971f;
  border-color: #d58512;
}
.notification_widget.warning:active:hover,
.notification_widget.warning.active:hover,
.open > .dropdown-toggle.notification_widget.warning:hover,
.notification_widget.warning:active:focus,
.notification_widget.warning.active:focus,
.open > .dropdown-toggle.notification_widget.warning:focus,
.notification_widget.warning:active.focus,
.notification_widget.warning.active.focus,
.open > .dropdown-toggle.notification_widget.warning.focus {
  color: #fff;
  background-color: #d58512;
```

```
    border-color: #985f0d;
  }
  .notification_widget.warning:active,
  .notification_widget.warning.active,
  .open > .dropdown-toggle.notification_widget.warning {
    background-image: none;
  }
  .notification_widget.warning.disabled:hover,
  .notification_widget.warning[disabled]:hover,
  fieldset[disabled] .notification_widget.warning:hover,
  .notification_widget.warning.disabled:focus,
  .notification_widget.warning[disabled]:focus,
  fieldset[disabled] .notification_widget.warning:focus,
  .notification_widget.warning.disabled.focus,
  .notification_widget.warning[disabled].focus,
  fieldset[disabled] .notification_widget.warning.focus {
    background-color: #f0ad4e;
    border-color: #eea236;
  }
  .notification_widget.warning .badge {
    color: #f0ad4e;
    background-color: #fff;
  }
  .notification_widget.success {
    color: #fff;
    background-color: #5cb85c;
    border-color: #4cae4c;
  }
  .notification_widget.success:focus,
  .notification_widget.success.focus {
    color: #fff;
    background-color: #449d44;
    border-color: #255625;
  }
  .notification_widget.success:hover {
    color: #fff;
    background-color: #449d44;
    border-color: #398439;
  }
  .notification_widget.success:active,
  .notification_widget.success.active,
  .open > .dropdown-toggle.notification_widget.success {
    color: #fff;
    background-color: #449d44;
    border-color: #398439;
  }
  .notification_widget.success:active:hover,
  .notification_widget.success.active:hover,
  .open > .dropdown-toggle.notification_widget.success:hover,
  .notification_widget.success:active:focus,
  .notification_widget.success.active:focus,
  .open > .dropdown-toggle.notification_widget.success:focus,
  .notification_widget.success:active.focus,
  .notification_widget.success.active.focus,
  .open > .dropdown-toggle.notification_widget.success.focus {
    color: #fff;
    background-color: #398439;
    border-color: #255625;
  }
  .notification_widget.success:active,
  .notification_widget.success.active,
  .open > .dropdown-toggle.notification_widget.success {
    background-image: none;
  }
  .notification_widget.success.disabled:hover,
```

```
.notification_widget.success[disabled]:hover,
fieldset[disabled] .notification_widget.success:hover,
.notification_widget.success.disabled:focus,
.notification_widget.success[disabled]:focus,
fieldset[disabled] .notification_widget.success:focus,
.notification_widget.success.disabled.focus,
.notification_widget.success[disabled].focus,
fieldset[disabled] .notification_widget.success.focus {
  background-color: #5cb85c;
  border-color: #4cae4c;
}
.notification_widget.success .badge {
  color: #5cb85c;
  background-color: #fff;
}
.notification_widget.info {
  color: #fff;
  background-color: #5bc0de;
  border-color: #46b8da;
}
.notification_widget.info:focus,
.notification_widget.info.focus {
  color: #fff;
  background-color: #31b0d5;
  border-color: #1b6d85;
}
.notification_widget.info:hover {
  color: #fff;
  background-color: #31b0d5;
  border-color: #269abc;
}
.notification_widget.info:active,
.notification_widget.info.active,
.open > .dropdown-toggle.notification_widget.info {
  color: #fff;
  background-color: #31b0d5;
  border-color: #269abc;
}
.notification_widget.info:active:hover,
.notification_widget.info.active:hover,
.open > .dropdown-toggle.notification_widget.info:hover,
.notification_widget.info:active:focus,
.notification_widget.info.active:focus,
.open > .dropdown-toggle.notification_widget.info:focus,
.notification_widget.info:active.focus,
.notification_widget.info.active.focus,
.open > .dropdown-toggle.notification_widget.info.focus {
  color: #fff;
  background-color: #269abc;
  border-color: #1b6d85;
}
.notification_widget.info:active,
.notification_widget.info.active,
.open > .dropdown-toggle.notification_widget.info {
  background-image: none;
}
.notification_widget.info.disabled:hover,
.notification_widget.info[disabled]:hover,
fieldset[disabled] .notification_widget.info:hover,
.notification_widget.info.disabled:focus,
.notification_widget.info[disabled]:focus,
fieldset[disabled] .notification_widget.info:focus,
.notification_widget.info.disabled.focus,
.notification_widget.info[disabled].focus,
fieldset[disabled] .notification_widget.info.focus {
```

```
    background-color: #5bc0de;
    border-color: #46b8da;
  }
  .notification_widget.info .badge {
    color: #5bc0de;
    background-color: #fff;
  }
  .notification_widget.danger {
    color: #fff;
    background-color: #d9534f;
    border-color: #d43f3a;
  }
  .notification_widget.danger:focus,
  .notification_widget.danger.focus {
    color: #fff;
    background-color: #c9302c;
    border-color: #761c19;
  }
  .notification_widget.danger:hover {
    color: #fff;
    background-color: #c9302c;
    border-color: #ac2925;
  }
  .notification_widget.danger:active,
  .notification_widget.danger.active,
  .open > .dropdown-toggle.notification_widget.danger {
    color: #fff;
    background-color: #c9302c;
    border-color: #ac2925;
  }
  .notification_widget.danger:active:hover,
  .notification_widget.danger.active:hover,
  .open > .dropdown-toggle.notification_widget.danger:hover,
  .notification_widget.danger:active:focus,
  .notification_widget.danger.active:focus,
  .open > .dropdown-toggle.notification_widget.danger:focus,
  .notification_widget.danger:active.focus,
  .notification_widget.danger.active.focus,
  .open > .dropdown-toggle.notification_widget.danger.focus {
    color: #fff;
    background-color: #ac2925;
    border-color: #761c19;
  }
  .notification_widget.danger:active,
  .notification_widget.danger.active,
  .open > .dropdown-toggle.notification_widget.danger {
    background-image: none;
  }
  .notification_widget.danger.disabled:hover,
  .notification_widget.danger[disabled]:hover,
  fieldset[disabled] .notification_widget.danger:hover,
  .notification_widget.danger.disabled:focus,
  .notification_widget.danger[disabled]:focus,
  fieldset[disabled] .notification_widget.danger:focus,
  .notification_widget.danger.disabled.focus,
  .notification_widget.danger[disabled].focus,
  fieldset[disabled] .notification_widget.danger.focus {
    background-color: #d9534f;
    border-color: #d43f3a;
  }
  .notification_widget.danger .badge {
    color: #d9534f;
    background-color: #fff;
  }
  div#pager {
```

```
    background-color: #fff;
    font-size: 14px;
    line-height: 20px;
    overflow: hidden;
    display: none;
    position: fixed;
    bottom: 0px;
    width: 100%;
    max-height: 50%;
    padding-top: 8px;
    -webkit-box-shadow: 0px 0px 12px 1px rgba(87, 87, 87, 0.2);
    box-shadow: 0px 0px 12px 1px rgba(87, 87, 87, 0.2);
    /* Display over codemirror */
    z-index: 100;
    /* Hack which prevents jquery ui resizable from changing top. */
    top: auto !important;
  }
  div#pager pre {
    line-height: 1.21429em;
    color: #000;
    background-color: #f7f7f7;
    padding: 0.4em;
  }
  div#pager #pager-button-area {
    position: absolute;
    top: 8px;
    right: 20px;
  }
  div#pager #pager-contents {
    position: relative;
    overflow: auto;
    width: 100%;
    height: 100%;
  }
  div#pager #pager-contents #pager-container {
    position: relative;
    padding: 15px 0px;
    box-sizing: border-box;
    -moz-box-sizing: border-box;
    -webkit-box-sizing: border-box;
  }
  div#pager .ui-resizable-handle {
    top: 0px;
    height: 8px;
    background: #f7f7f7;
    border-top: 1px solid #cfcfcf;
    border-bottom: 1px solid #cfcfcf;
    /* This injects handle bars (a short, wide = symbol) for
          the resize handle. */
  }
  div#pager .ui-resizable-handle::after {
    content: '';
    top: 2px;
    left: 50%;
    height: 3px;
    width: 30px;
    margin-left: -15px;
    position: absolute;
    border-top: 1px solid #cfcfcf;
  }
  .quickhelp {
    /* Old browsers */
    display: -webkit-box;
    -webkit-box-orient: horizontal;
    -webkit-box-align: stretch;
```

```
    display: -moz-box;
    -moz-box-orient: horizontal;
    -moz-box-align: stretch;
    display: box;
    box-orient: horizontal;
    box-align: stretch;
    /* Modern browsers */
    display: flex;
    flex-direction: row;
    align-items: stretch;
    line-height: 1.8em;
  }
  .shortcut_key {
    display: inline-block;
    width: 21ex;
    text-align: right;
    font-family: monospace;
  }
  .shortcut_descr {
    display: inline-block;
    /* Old browsers */
    -webkit-box-flex: 1;
    -moz-box-flex: 1;
    box-flex: 1;
    /* Modern browsers */
    flex: 1;
  }
  span.save_widget {
    height: 30px;
    margin-top: 4px;
    display: flex;
    justify-content: flex-start;
    align-items: baseline;
    width: 50%;
    flex: 1;
  }
  span.save_widget span.filename {
    height: 100%;
    line-height: 1em;
    margin-left: 16px;
    border: none;
    font-size: 146.5%;
    text-overflow: ellipsis;
    overflow: hidden;
    white-space: nowrap;
    border-radius: 2px;
  }
  span.save_widget span.filename:hover {
    background-color: #e6e6e6;
  }
  [dir="rtl"] span.save_widget.pull-left {
    float: right !important;
    float: right;
  }
  [dir="rtl"] span.save_widget span.filename {
    margin-left: 0;
    margin-right: 16px;
  }
  span.checkpoint_status,
  span.autosave_status {
    font-size: small;
    white-space: nowrap;
    padding: 0 5px;
  }
  @media (max-width: 767px) {
```

```
    span.save_widget {
      font-size: small;
      padding: 0 0 0 5px;
    }
    span.checkpoint_status,
    span.autosave_status {
      display: none;
    }
  }
  @media (min-width: 768px) and (max-width: 991px) {
    span.checkpoint_status {
      display: none;
    }
    span.autosave_status {
      font-size: x-small;
    }
  }
  .toolbar {
    padding: 0px;
    margin-left: -5px;
    margin-top: 2px;
    margin-bottom: 5px;
    box-sizing: border-box;
    -moz-box-sizing: border-box;
    -webkit-box-sizing: border-box;
  }
  .toolbar select,
  .toolbar label {
    width: auto;
    vertical-align: middle;
    margin-right: 2px;
    margin-bottom: 0px;
    display: inline;
    font-size: 92%;
    margin-left: 0.3em;
    margin-right: 0.3em;
    padding: 0px;
    padding-top: 3px;
  }
  .toolbar .btn {
    padding: 2px 8px;
  }
  .toolbar .btn-group {
    margin-top: 0px;
    margin-left: 5px;
  }
  .toolbar-btn-label {
    margin-left: 6px;
  }
  #maintoolbar {
    margin-bottom: -3px;
    margin-top: -8px;
    border: 0px;
    min-height: 27px;
    margin-left: 0px;
    padding-top: 11px;
    padding-bottom: 3px;
  }
  #maintoolbar .navbar-text {
    float: none;
    vertical-align: middle;
    text-align: right;
    margin-left: 5px;
    margin-right: 0px;
    margin-top: 0px;
```

```
}
.select-xs {
  height: 24px;
}
[dir="rtl"] .btn-group > .btn,
.btn-group-vertical > .btn {
  float: right;
}
.pulse,
.dropdown-menu > li > a.pulse,
li.pulse > a.dropdown-toggle,
li.pulse.open > a.dropdown-toggle {
  background-color: #F37626;
  color: white;
}
/**
 * Primary styles
 *
 * Author: Jupyter Development Team
 */
/** WARNING IF YOU ARE EDITTING THIS FILE, if this is a .css file, It has a lot
 * of chance of beeing generated from the ../less/[samename].less file, you can
 * try to get back the less file by reverting somme commit in history
 **/
/*
 * We'll try to get something pretty, so we
 * have some strange css to have the scroll bar on
 * the left with fix button on the top right of the tooltip
 */
@-moz-keyframes fadeOut {
  from {
    opacity: 1;
  }
  to {
    opacity: 0;
  }
}
@-webkit-keyframes fadeOut {
  from {
    opacity: 1;
  }
  to {
    opacity: 0;
  }
}
@-moz-keyframes fadeIn {
  from {
    opacity: 0;
  }
  to {
    opacity: 1;
  }
}
@-webkit-keyframes fadeIn {
  from {
    opacity: 0;
  }
  to {
    opacity: 1;
  }
}
/*properties of tooltip after "expand"*/
.bigtooltip {
  overflow: auto;
  height: 200px;
```

```
    -webkit-transition-property: height;
    -webkit-transition-duration: 500ms;
    -moz-transition-property: height;
    -moz-transition-duration: 500ms;
    transition-property: height;
    transition-duration: 500ms;
  }
  /*properties of tooltip before "expand"*/
  .smalltooltip {
    -webkit-transition-property: height;
    -webkit-transition-duration: 500ms;
    -moz-transition-property: height;
    -moz-transition-duration: 500ms;
    transition-property: height;
    transition-duration: 500ms;
    text-overflow: ellipsis;
    overflow: hidden;
    height: 80px;
  }
  .tooltipbuttons {
    position: absolute;
    padding-right: 15px;
    top: 0px;
    right: 0px;
  }
  .tooltiptext {
    /*avoid the button to overlap on some docstring*/
    padding-right: 30px;
  }
  .ipython_tooltip {
    max-width: 700px;
    /*fade-in animation when inserted*/
    -webkit-animation: fadeOut 400ms;
    -moz-animation: fadeOut 400ms;
    animation: fadeOut 400ms;
    -webkit-animation: fadeIn 400ms;
    -moz-animation: fadeIn 400ms;
    animation: fadeIn 400ms;
    vertical-align: middle;
    background-color: #f7f7f7;
    overflow: visible;
    border: #ababab 1px solid;
    outline: none;
    padding: 3px;
    margin: 0px;
    padding-left: 7px;
    font-family: monospace;
    min-height: 50px;
    -moz-box-shadow: 0px 6px 10px -1px #adadad;
    -webkit-box-shadow: 0px 6px 10px -1px #adadad;
    box-shadow: 0px 6px 10px -1px #adadad;
    border-radius: 2px;
    position: absolute;
    z-index: 1000;
  }
  .ipython_tooltip a {
    float: right;
  }
  .ipython_tooltip .tooltiptext pre {
    border: 0;
    border-radius: 0;
    font-size: 100%;
    background-color: #f7f7f7;
  }
  .pretooltiparrow {
```

```
    left: 0px;
    margin: 0px;
    top: -16px;
    width: 40px;
    height: 16px;
    overflow: hidden;
    position: absolute;
  }
  .pretooltiparrow:before {
    background-color: #f7f7f7;
    border: 1px #ababab solid;
    z-index: 11;
    content: "";
    position: absolute;
    left: 15px;
    top: 10px;
    width: 25px;
    height: 25px;
    -webkit-transform: rotate(45deg);
    -moz-transform: rotate(45deg);
    -ms-transform: rotate(45deg);
    -o-transform: rotate(45deg);
  }
  ul.typeahead-list i {
    margin-left: -10px;
    width: 18px;
  }
  [dir="rtl"] ul.typeahead-list i {
    margin-left: 0;
    margin-right: -10px;
  }
  ul.typeahead-list {
    max-height: 80vh;
    overflow: auto;
  }
  ul.typeahead-list > li > a {
    /** Firefox bug **/
    /* see https://github.com/jupyter/notebook/issues/559 */
    white-space: normal;
  }
  ul.typeahead-list  > li > a.pull-right {
    float: left !important;
    float: left;
  }
  [dir="rtl"] .typeahead-list {
    text-align: right;
  }
  .cmd-palette .modal-body {
    padding: 7px;
  }
  .cmd-palette form {
    background: white;
  }
  .cmd-palette input {
    outline: none;
  }
  .no-shortcut {
    min-width: 20px;
    color: transparent;
  }
  [dir="rtl"] .no-shortcut.pull-right {
    float: left !important;
    float: left;
  }
  [dir="rtl"] .command-shortcut.pull-right {
```

```
    float: left !important;
    float: left;
  }
  .command-shortcut:before {
    content: "(command mode)";
    padding-right: 3px;
    color: #777777;
  }
  .edit-shortcut:before {
    content: "(edit)";
    padding-right: 3px;
    color: #777777;
  }
  [dir="rtl"] .edit-shortcut.pull-right {
    float: left !important;
    float: left;
  }
  #find-and-replace #replace-preview .match,
  #find-and-replace #replace-preview .insert {
    background-color: #BBDEFB;
    border-color: #90CAF9;
    border-style: solid;
    border-width: 1px;
    border-radius: 0px;
  }
  [dir="ltr"] #find-and-replace .input-group-btn + .form-control {
    border-left: none;
  }
  [dir="rtl"] #find-and-replace .input-group-btn + .form-control {
    border-right: none;
  }
  #find-and-replace #replace-preview .replace .match {
    background-color: #FFCDD2;
    border-color: #EF9A9A;
    border-radius: 0px;
  }
  #find-and-replace #replace-preview .replace .insert {
    background-color: #C8E6C9;
    border-color: #A5D6A7;
    border-radius: 0px;
  }
  #find-and-replace #replace-preview {
    max-height: 60vh;
    overflow: auto;
  }
  #find-and-replace #replace-preview pre {
    padding: 5px 10px;
  }
  .terminal-app {
    background: #EEE;
  }
  .terminal-app #header {
    background: #fff;
    -webkit-box-shadow: 0px 0px 12px 1px rgba(87, 87, 87, 0.2);
    box-shadow: 0px 0px 12px 1px rgba(87, 87, 87, 0.2);
  }
  .terminal-app .terminal {
    width: 100%;
    float: left;
    font-family: monospace;
    color: white;
    background: black;
    padding: 0.4em;
    border-radius: 2px;
    -webkit-box-shadow: 0px 0px 12px 1px rgba(87, 87, 87, 0.4);
```

```
    box-shadow: 0px 0px 12px 1px rgba(87, 87, 87, 0.4);
  }
  .terminal-app .terminal,
  .terminal-app .terminal dummy-screen {
    line-height: 1em;
    font-size: 14px;
  }
  .terminal-app .terminal .xterm-rows {
    padding: 10px;
  }
  .terminal-app .terminal-cursor {
    color: black;
    background: white;
  }
  .terminal-app #terminado-container {
    margin-top: 20px;
  }
  /*# sourceMappingURL=style.min.css.map */
      </style>
  <style type="text/css">
      .highlight .hll { background-color: #ffffcc }
  .highlight  { background: #f8f8f8; }
  .highlight .c { color: #408080; font-style: italic } /* Comment */
  .highlight .err { border: 1px solid #FF0000 } /* Error */
  .highlight .k { color: #008000; font-weight: bold } /* Keyword */
  .highlight .o { color: #666666 } /* Operator */
  .highlight .ch { color: #408080; font-style: italic } /* Comment.Hashbang */
  .highlight .cm { color: #408080; font-style: italic } /* Comment.Multiline */
  .highlight .cp { color: #BC7A00 } /* Comment.Preproc */
  .highlight .cpf { color: #408080; font-style: italic } /* Comment.PreprocFile */
  .highlight .c1 { color: #408080; font-style: italic } /* Comment.Single */
  .highlight .cs { color: #408080; font-style: italic } /* Comment.Special */
  .highlight .gd { color: #A00000 } /* Generic.Deleted */
  .highlight .ge { font-style: italic } /* Generic.Emph */
  .highlight .gr { color: #FF0000 } /* Generic.Error */
  .highlight .gh { color: #000080; font-weight: bold } /* Generic.Heading */
  .highlight .gi { color: #00A000 } /* Generic.Inserted */
  .highlight .go { color: #888888 } /* Generic.Output */
  .highlight .gp { color: #000080; font-weight: bold } /* Generic.Prompt */
  .highlight .gs { font-weight: bold } /* Generic.Strong */
  .highlight .gu { color: #800080; font-weight: bold } /* Generic.Subheading */
  .highlight .gt { color: #0044DD } /* Generic.Traceback */
  .highlight .kc { color: #008000; font-weight: bold } /* Keyword.Constant */
  .highlight .kd { color: #008000; font-weight: bold } /* Keyword.Declaration */
  .highlight .kn { color: #008000; font-weight: bold } /* Keyword.Namespace */
  .highlight .kp { color: #008000 } /* Keyword.Pseudo */
  .highlight .kr { color: #008000; font-weight: bold } /* Keyword.Reserved */
  .highlight .kt { color: #B00040 } /* Keyword.Type */
  .highlight .m { color: #666666 } /* Literal.Number */
  .highlight .s { color: #BA2121 } /* Literal.String */
  .highlight .na { color: #7D9029 } /* Name.Attribute */
  .highlight .nb { color: #008000 } /* Name.Builtin */
  .highlight .nc { color: #0000FF; font-weight: bold } /* Name.Class */
  .highlight .no { color: #880000 } /* Name.Constant */
  .highlight .nd { color: #AA22FF } /* Name.Decorator */
  .highlight .ni { color: #999999; font-weight: bold } /* Name.Entity */
  .highlight .ne { color: #D2413A; font-weight: bold } /* Name.Exception */
  .highlight .nf { color: #0000FF } /* Name.Function */
  .highlight .nl { color: #A0A000 } /* Name.Label */
  .highlight .nn { color: #0000FF; font-weight: bold } /* Name.Namespace */
  .highlight .nt { color: #008000; font-weight: bold } /* Name.Tag */
  .highlight .nv { color: #19177C } /* Name.Variable */
  .highlight .ow { color: #AA22FF; font-weight: bold } /* Operator.Word */
  .highlight .w { color: #bbbbbb } /* Text.Whitespace */
  .highlight .mb { color: #666666 } /* Literal.Number.Bin */
```

```
.highlight .mf { color: #666666 } /* Literal.Number.Float */
.highlight .mh { color: #666666 } /* Literal.Number.Hex */
.highlight .mi { color: #666666 } /* Literal.Number.Integer */
.highlight .mo { color: #666666 } /* Literal.Number.Oct */
.highlight .sa { color: #BA2121 } /* Literal.String.Affix */
.highlight .sb { color: #BA2121 } /* Literal.String.Backtick */
.highlight .sc { color: #BA2121 } /* Literal.String.Char */
.highlight .dl { color: #BA2121 } /* Literal.String.Delimiter */
.highlight .sd { color: #BA2121; font-style: italic } /* Literal.String.Doc */
.highlight .s2 { color: #BA2121 } /* Literal.String.Double */
.highlight .se { color: #BB6622; font-weight: bold } /* Literal.String.Escape */
.highlight .sh { color: #BA2121 } /* Literal.String.Heredoc */
.highlight .si { color: #BB6688; font-weight: bold } /* Literal.String.Interpol */
.highlight .sx { color: #008000 } /* Literal.String.Other */
.highlight .sr { color: #BB6688 } /* Literal.String.Regex */
.highlight .s1 { color: #BA2121 } /* Literal.String.Single */
.highlight .ss { color: #19177C } /* Literal.String.Symbol */
.highlight .bp { color: #008000 } /* Name.Builtin.Pseudo */
.highlight .fm { color: #0000FF } /* Name.Function.Magic */
.highlight .vc { color: #19177C } /* Name.Variable.Class */
.highlight .vg { color: #19177C } /* Name.Variable.Global */
.highlight .vi { color: #19177C } /* Name.Variable.Instance */
.highlight .vm { color: #19177C } /* Name.Variable.Magic */
.highlight .il { color: #666666 } /* Literal.Number.Integer.Long */
    </style>
<style type="text/css">

/* Temporary definitions which will become obsolete with Notebook release 5.0 */
.ansi-black-fg { color: #3E424D; }
.ansi-black-bg { background-color: #3E424D; }
.ansi-black-intense-fg { color: #282C36; }
.ansi-black-intense-bg { background-color: #282C36; }
.ansi-red-fg { color: #E75C58; }
.ansi-red-bg { background-color: #E75C58; }
.ansi-red-intense-fg { color: #B22B31; }
.ansi-red-intense-bg { background-color: #B22B31; }
.ansi-green-fg { color: #00A250; }
.ansi-green-bg { background-color: #00A250; }
.ansi-green-intense-fg { color: #007427; }
.ansi-green-intense-bg { background-color: #007427; }
.ansi-yellow-fg { color: #DDB62B; }
.ansi-yellow-bg { background-color: #DDB62B; }
.ansi-yellow-intense-fg { color: #B27D12; }
.ansi-yellow-intense-bg { background-color: #B27D12; }
.ansi-blue-fg { color: #208FFB; }
.ansi-blue-bg { background-color: #208FFB; }
.ansi-blue-intense-fg { color: #0065CA; }
.ansi-blue-intense-bg { background-color: #0065CA; }
.ansi-magenta-fg { color: #D160C4; }
.ansi-magenta-bg { background-color: #D160C4; }
.ansi-magenta-intense-fg { color: #A03196; }
.ansi-magenta-intense-bg { background-color: #A03196; }
.ansi-cyan-fg { color: #60C6C8; }
.ansi-cyan-bg { background-color: #60C6C8; }
.ansi-cyan-intense-fg { color: #258F8F; }
.ansi-cyan-intense-bg { background-color: #258F8F; }
.ansi-white-fg { color: #C5C1B4; }
.ansi-white-bg { background-color: #C5C1B4; }
.ansi-white-intense-fg { color: #A1A6B2; }
.ansi-white-intense-bg { background-color: #A1A6B2; }

.ansi-bold { font-weight: bold; }

    </style>
```

```
<style type="text/css">
/* Overrides of notebook CSS for static HTML export */
body {
  overflow: visible;
  padding: 8px;
}

div#notebook {
  overflow: visible;
  border-top: none;
}@media print {
  div.cell {
    display: block;
    page-break-inside: avoid;
  }
  div.output_wrapper {
    display: block;
    page-break-inside: avoid;
  }
  div.output {
    display: block;
    page-break-inside: avoid;
  }
}
</style>

<!-- Custom stylesheet, it must be in the same directory as the html file -->
<link rel="stylesheet" href="custom.css">

<!-- Loading mathjax macro -->
<!-- Load mathjax -->
    <script src="https://cdnjs.cloudflare.com/ajax/libs/mathjax/2.7.1/MathJax.js?config=TeX-
AMS_HTML"></script>
    <!-- MathJax configuration -->
    <script type="text/x-mathjax-config">
    MathJax.Hub.Config({
        tex2jax: {
            inlineMath: [ ['$','$'], ["\\(","\\)"] ],
            displayMath: [ ['$$','$$'], ["\\[","\\]"] ],
            processEscapes: true,
            processEnvironments: true
        },
        // Center justify equations in code and markdown cells. Elsewhere
        // we use CSS to left justify single line equations in code cells.
        displayAlign: 'center',
        "HTML-CSS": {
            styles: {'.MathJax_Display': {"margin": 0}},
            linebreaks: { automatic: true }
        }
    });
    </script>
    <!-- End of mathjax configuration --></head>
<body>
  <div tabindex="-1" id="notebook" class="border-box-sizing">
    <div class="container" id="notebook-container">

<div class="cell border-box-sizing text_cell rendered"><div class="prompt input_prompt">
</div><div class="inner_cell">
<div class="text_cell_render border-box-sizing rendered_html">
<h1 id="Topic:-Predict-Future-Sales">Topic: Predict Future Sales<a class="anchor-link" href="#Topic:-
Predict-Future-Sales">&#182;</a></h1><p><strong>Team: Balck Mirror</strong></p>
<p><strong>Work: Final Project</strong></p>
<p><strong>Class: w207</strong></p>
<p><strong>Professor: June Andrews</strong></p>
```

```
<p><strong>Presentation Date: April 17th, 2019</strong></p>

</div>
</div>
</div>
<div class="cell border-box-sizing text_cell rendered"><div class="prompt input_prompt">
</div><div class="inner_cell">
<div class="text_cell_render border-box-sizing rendered_html">
<h1 id="Introduction:">Introduction:<a class="anchor-link" href="#Introduction:">&#182;</a></h1><p>In
this notebook, we implement a gradient boosting algorithm and predict number of items sold for the
next month (output field: item_cnt_month) per store per item ('ID' in the output table stands for
tuple of shop_id and item_id). All items are digital in nature such as PC, game consoles, computer
games, music, etc.</p>

</div>
</div>
</div>
<div class="cell border-box-sizing text_cell rendered">
<div class="inner_cell">
<div class="text_cell_render border-box-sizing rendered_html">
<h1 id="0---Packages-dependencies">0 - Packages dependencies<a class="anchor-link" href="#0---
Packages-dependencies">&#182;</a></h1>
</div>
</div>
</div>
<div class="cell border-box-sizing code_cell rendered">
<div class="input">
<div class="prompt input_prompt">In [3]:</div>
<div class="inner_cell">
    <div class="input_area">
<div class=" highlight hl-ipython3"><pre><span></span><span class="c1"># plot inline</span>
<span class="o">%</span><span class="k">matplotlib</span> inline

<span class="c1"># data</span>
<span class="kn">import</span> <span class="nn">numpy</span> <span class="k">as</span> <span
class="nn">np</span>
<span class="kn">import</span> <span class="nn">pandas</span> <span class="k">as</span> <span
class="nn">pd</span>

<span class="c1"># plotting</span>
<span class="kn">import</span> <span class="nn">matplotlib.pyplot</span> <span class="k">as</span>
<span class="nn">plt</span>
<span class="kn">from</span> <span class="nn">matplotlib.colors</span> <span class="k">import</span>
<span class="n">ListedColormap</span>
<span class="kn">from</span> <span class="nn">matplotlib.colors</span> <span class="k">import</span>
<span class="n">LogNorm</span>
<span class="kn">import</span> <span class="nn">seaborn</span> <span class="k">as</span> <span
class="nn">sns</span>
<span class="kn">import</span> <span class="nn">graphviz</span>

<span class="c1"># machine learing</span>
<span class="kn">from</span> <span class="nn">xgboost</span> <span class="k">import</span> <span
class="n">XGBRegressor</span>
<span class="kn">from</span> <span class="nn">xgboost</span> <span class="k">import</span> <span
class="n">plot_importance</span>
<span class="kn">from</span> <span class="nn">xgboost</span> <span class="k">import</span> <span
class="n">plot_tree</span>
<span class="kn">from</span> <span class="nn">sklearn.metrics</span> <span class="k">import</span>
<span class="n">mean_squared_error</span>
<span class="kn">from</span> <span class="nn">sklearn.preprocessing</span> <span
class="k">import</span> <span class="n">StandardScaler</span><span class="p">,</span> <span
class="n">MinMaxScaler</span>
<span class="kn">from</span> <span class="nn">sklearn.preprocessing</span> <span
class="k">import</span> <span class="n">LabelEncoder</span>
<span class="kn">from</span> <span class="nn">sklearn.model_selection</span> <span
```

```
class="k">import</span> <span class="n">TimeSeriesSplit</span>
<span class="kn">from</span> <span class="nn">sklearn.metrics</span> <span class="k">import</span>
<span class="n">explained_variance_score</span>
<span class="kn">from</span> <span class="nn">sklearn.metrics</span> <span class="k">import</span>
<span class="n">r2_score</span>
<span class="kn">from</span> <span class="nn">sklearn.model_selection</span> <span
class="k">import</span> <span class="n">TimeSeriesSplit</span>
<span class="kn">from</span> <span class="nn">sklearn.model_selection</span> <span
class="k">import</span> <span class="n">GridSearchCV</span>

<span class="c1"># other</span>
<span class="kn">import</span> <span class="nn">csv</span>
<span class="kn">from</span> <span class="nn">datetime</span> <span class="k">import</span> <span
class="n">datetime</span>
<span class="kn">from</span> <span class="nn">datetime</span> <span class="k">import</span> <span
class="n">date</span>
<span class="kn">import</span> <span class="nn">holidays</span>
<span class="kn">import</span> <span class="nn">gzip</span>
<span class="kn">import</span> <span class="nn">zipfile</span>
<span class="kn">from</span> <span class="nn">geotext</span> <span class="k">import</span> <span
class="n">GeoText</span>
<span class="kn">from</span> <span class="nn">itertools</span> <span class="k">import</span> <span
class="n">product</span>

<span class="c1"># mute warnings</span>
<span class="kn">import</span> <span class="nn">warnings</span>
<span class="n">warnings</span><span class="o">.</span><span class="n">filterwarnings</span><span
class="p">(</span><span class="s1">&#39;ignore&#39;</span><span class="p">)</span>
</pre></div>

    </div>
</div>
</div>

</div>
<div class="cell border-box-sizing text_cell rendered"><div class="prompt input_prompt">
</div><div class="inner_cell">
<div class="text_cell_render border-box-sizing rendered_html">
<h1 id="1---Data-Preparation">1 - Data Preparation<a class="anchor-link" href="#1---Data-
Preparation">&#182;</a></h1>
</div>
</div>
</div>
<div class="cell border-box-sizing text_cell rendered"><div class="prompt input_prompt">
</div><div class="inner_cell">
<div class="text_cell_render border-box-sizing rendered_html">
<h3 id="1.1---Load-Data">1.1 - Load Data<a class="anchor-link" href="#1.1---Load-Data">&#182;</a>
</h3>
</div>
</div>
</div>
<div class="cell border-box-sizing text_cell rendered"><div class="prompt input_prompt">
</div><div class="inner_cell">
<div class="text_cell_render border-box-sizing rendered_html">
<p>load our train and test data.
Due to excel number of rows limitation, will handle unpackaging data set here.</p>

</div>
</div>
</div>
<div class="cell border-box-sizing code_cell rendered">
<div class="input">
<div class="prompt input_prompt">In [4]:</div>
<div class="inner_cell">
    <div class="input_area">
```

```
<div class=" highlight hl-ipython3"><pre><span></span><span class="c1"># unzip the zip file from
Kaggle</span>
<span class="nb">zip</span> <span class="o">=</span> <span class="n">zipfile</span><span class="o">.
</span><span class="n">ZipFile</span><span class="p">(</span><span class="s1">&#39;competitive-data-
science-predict-future-sales.zip&#39;</span><span class="p">)</span>
<span class="nb">zip</span><span class="o">.</span><span class="n">extractall</span><span class="p">
()</span>

<span class="c1">># read in data</span>
<span class="n">file_1</span> <span class="o">=</span> <span class="n">gzip</span><span class="o">.
</span><span class="n">open</span><span class="p">(</span><span
class="s1">&#39;sales_train.csv.gz&#39;</span><span class="p">)</span>
<span class="n">train_sales_data</span> <span class="o">=</span> <span class="n">pd</span><span
class="o">.</span><span class="n">read_csv</span><span class="p">(</span><span
class="n">file_1</span><span class="p">,</span> <span class="n">parse_dates</span><span class="o">=
</span><span class="p">[</span><span class="s1">&#39;date&#39;</span><span class="p">])</span> <span
class="c1">># with datetime transform</span>

<span class="n">file_2</span> <span class="o">=</span> <span class="n">gzip</span><span class="o">.
</span><span class="n">open</span><span class="p">(</span><span class="s1">&#39;test.csv.gz&#39;
</span><span class="p">)</span>
<span class="n">test_data</span> <span class="o">=</span> <span class="n">pd</span><span class="o">.
</span><span class="n">read_csv</span><span class="p">(</span><span class="n">file_2</span><span
class="p">)</span>

<span class="c1">># load item, shop, and item category</span>
<span class="n">items_category_data</span> <span class="o">=</span> <span class="n">pd</span><span
class="o">.</span><span class="n">read_csv</span><span class="p">(</span><span
class="s1">&#39;item_categories-translated.csv&#39;</span><span class="p">)</span>
<span class="n">items_data</span> <span class="o">=</span> <span class="n">pd</span><span class="o">.
</span><span class="n">read_csv</span><span class="p">(</span><span class="s1">&#39;items.csv&#39;
</span><span class="p">)</span>
<span class="n">shops_data</span> <span class="o">=</span> <span class="n">pd</span><span class="o">.
</span><span class="n">read_csv</span><span class="p">(</span><span class="s1">&#39;shops-
translated.csv&#39;</span><span class="p">)</span>

<span class="c1">># Check dimensions</span>
<span class="nb">print</span><span class="p">(</span><span class="n">f</span><span
class="s2">&quot;&quot;&quot;</span>
<span class="s2">1. Train data shape: </span><span class="si">{train_sales_data.shape}</span><span
class="s2"></span>
<span class="s2">2. Test data shape: </span><span class="si">{test_data.shape}</span><span
class="s2"></span>
<span class="s2">3. items category data: </span><span class="si">{items_category_data.shape}</span>
<span class="s2">></span>
<span class="s2">4. items data: </span><span class="si">{items_data.shape}</span><span class="s2">
</span>
<span class="s2">5. shops data: </span><span class="si">{shops_data.shape}</span><span class="s2">
</span>

<span class="s2">&quot;&quot;&quot;</span><span class="p">)</span>
</pre></div>

    </div>
</div>
</div>

<div class="output_wrapper">
<div class="output">


<div class="output_area">

    <div class="prompt"></div>
```

```
<div class="output_subarea output_stream output_stdout output_text">
<pre>
1. Train data shape: (2935849, 6)
2. Test data shape: (214200, 3)
3. items category data: (84, 2)
4. items data: (22170, 3)
5. shops data: (60, 2)


</pre>
</div>
</div>

</div>
</div>

</div>
<div class="cell border-box-sizing text_cell rendered"><div class="prompt input_prompt">
</div><div class="inner_cell">
<div class="text_cell_render border-box-sizing rendered_html">
<h3 id="1.2---Join-all-data-togther">1.2 - Join all data togther<a class="anchor-link" href="#1.2---
Join-all-data-togther">&#182;</a></h3><p><strong>after joining the data, we take a quick look at our
data.</strong></p>

</div>
</div>
</div>
<div class="cell border-box-sizing code_cell rendered">
<div class="input">
<div class="prompt input_prompt">In [5]:</div>
<div class="inner_cell">
    <div class="input_area">
<div class=" highlight hl-ipython3"><pre><span></span><span class="c1"># join all data
together</span>
<span class="n">train_final</span> <span class="o">=</span> <span class="n">train_sales_data</span>
<span class="o">.</span><span class="n">join</span><span class="p">(</span><span
class="n">items_data</span><span class="p">,</span> <span class="n">on</span><span class="o">=</span>
<span class="s1">&#39;item_id&#39;</span><span class="p">,</span> <span class="n">rsuffix</span><span
class="o">=</span><span class="s1">&#39;_&#39;</span><span class="p">)</span> \
             <span class="o">.</span><span class="n">join</span><span class="p">(</span><span
class="n">shops_data</span><span class="p">,</span> <span class="n">on</span><span class="o">=</span>
<span class="s1">&#39;shop_id&#39;</span><span class="p">,</span> <span class="n">rsuffix</span><span
class="o">=</span><span class="s1">&#39;_&#39;</span><span class="p">)</span> \
             <span class="o">.</span><span class="n">join</span><span class="p">(</span><span
class="n">items_category_data</span><span class="p">,</span> <span class="n">on</span><span
class="o">=</span><span class="s1">&#39;item_category_id&#39;</span><span class="p">,</span> <span
class="n">rsuffix</span><span class="o">=</span><span class="s1">&#39;_&#39;</span><span class="p">)
</span> \
             <span class="o">.</span><span class="n">drop</span><span class="p">([</span><span
class="s1">&#39;item_id_&#39;</span><span class="p">,</span> <span class="s1">&#39;shop_id_&#39;
</span><span class="p">,</span> <span class="s1">&#39;item_category_id_&#39;</span><span class="p">],
</span> <span class="n">axis</span><span class="o">=</span><span class="mi">1</span><span class="p">)
</span>

<span class="c1">># check dimension for the joined data</span>
<span class="nb">print</span><span class="p">(</span><span class="n">f</span><span
class="s2">&quot;&quot;&quot;</span>
<span class="s2">Joined data shape: </span><span class="si">{train_final.shape}</span><span
class="s2">></span>
<span class="s2">&quot;&quot;&quot;</span><span class="p">)</span>

<span class="c1">># take a quick look at our train data</span>
<span class="n">train_final</span><span class="o">.</span><span class="n">head</span><span class="p">
()</span>
```

```
</pre></div>

    </div>
</div>
</div>

<div class="output_wrapper">
<div class="output">


<div class="output_area">

    <div class="prompt"></div>


<div class="output_subarea output_stream output_stdout output_text">
<pre>
Joined data shape: (2935849, 10)

</pre>
</div>
</div>

<div class="output_area">

    <div class="prompt output_prompt">Out[5]:</div>



<div class="output_html rendered_html output_subarea output_execute_result">
<div>
<style scoped>
    .dataframe tbody tr th:only-of-type {
        vertical-align: middle;
    }

    .dataframe tbody tr th {
        vertical-align: top;
    }

    .dataframe thead th {
        text-align: right;
    }
</style>
<table border="1" class="dataframe">
  <thead>
    <tr style="text-align: right;">
      <th></th>
      <th>date</th>
      <th>date_block_num</th>
      <th>shop_id</th>
      <th>item_id</th>
      <th>item_price</th>
      <th>item_cnt_day</th>
      <th>item_name</th>
      <th>item_category_id</th>
      <th>shop_name_translated</th>
      <th>item_category_name_translated</th>
    </tr>
  </thead>
  <tbody>
    <tr>
      <th>0</th>
      <td>2013-02-01</td>
      <td>0</td>
```

```
      <td>59</td>
      <td>22154</td>
      <td>999.00</td>
      <td>1.0</td>
      <td>ЯВЛЕНИЕ 2012 (BD)</td>
      <td>37</td>
      <td>Yaroslavl Shopping center "Altair"</td>
      <td>Cinema - Blu-Ray</td>
    </tr>
    <tr>
      <th>1</th>
      <td>2013-03-01</td>
      <td>0</td>
      <td>25</td>
      <td>2552</td>
      <td>899.00</td>
      <td>1.0</td>
      <td>DEEP PURPLE  The House Of Blue Light  LP</td>
      <td>58</td>
      <td>Moscow TRK "Atrium"</td>
      <td>Music - Vinyl</td>
    </tr>
    <tr>
      <th>2</th>
      <td>2013-05-01</td>
      <td>0</td>
      <td>25</td>
      <td>2552</td>
      <td>899.00</td>
      <td>-1.0</td>
      <td>DEEP PURPLE  The House Of Blue Light  LP</td>
      <td>58</td>
      <td>Moscow TRK "Atrium"</td>
      <td>Music - Vinyl</td>
    </tr>
    <tr>
      <th>3</th>
      <td>2013-06-01</td>
      <td>0</td>
      <td>25</td>
      <td>2554</td>
      <td>1709.05</td>
      <td>1.0</td>
      <td>DEEP PURPLE  Who Do You Think We Are  LP</td>
      <td>58</td>
      <td>Moscow TRK "Atrium"</td>
      <td>Music - Vinyl</td>
    </tr>
    <tr>
      <th>4</th>
      <td>2013-01-15</td>
      <td>0</td>
      <td>25</td>
      <td>2555</td>
      <td>1099.00</td>
      <td>1.0</td>
      <td>DEEP PURPLE 30 Very Best Of 2CD (Фирм.)</td>
      <td>56</td>
      <td>Moscow TRK "Atrium"</td>
      <td>Music - CD of branded production</td>
    </tr>
  </tbody>
</table>
</div>
</div>
```

```
</div>

</div>
</div>

</div>
<div class="cell border-box-sizing text_cell rendered"><div class="prompt input_prompt">
</div><div class="inner_cell">
<div class="text_cell_render border-box-sizing rendered_html">
<p><strong>Lets have a quick look at our test data too.</strong></p>

</div>
</div>
</div>
<div class="cell border-box-sizing code_cell rendered">
<div class="input">
<div class="prompt input_prompt">In [6]:</div>
<div class="inner_cell">
    <div class="input_area">
<div class=" highlight hl-ipython3"><pre><span></span><span class="c1"># take a quick look at our
test data</span>
<span class="nb">print</span><span class="p">(</span><span class="n">f</span><span
class="s2">&quot;&quot;&quot;</span>
<span class="s2">test data shape: </span><span class="si">{test_data.shape}</span><span class="s2">
</span>
<span class="s2">&quot;&quot;&quot;</span><span class="p">)</span>

<span class="n">test_data</span><span class="o">.</span><span class="n">head</span><span class="p">()
</span>
</pre></div>

    </div>
</div>
</div>

<div class="output_wrapper">
<div class="output">


<div class="output_area">

    <div class="prompt"></div>


<div class="output_subarea output_stream output_stdout output_text">
<pre>
test data shape: (214200, 3)

</pre>
</div>
</div>

<div class="output_area">

    <div class="prompt output_prompt">Out[6]:</div>



<div class="output_html rendered_html output_subarea output_execute_result">
<div>
<style scoped>
    .dataframe tbody tr th:only-of-type {
        vertical-align: middle;
    }
```

```
    .dataframe tbody tr th {
        vertical-align: top;
    }

    .dataframe thead th {
        text-align: right;
    }
</style>
<table border="1" class="dataframe">
  <thead>
    <tr style="text-align: right;">
      <th></th>
      <th>ID</th>
      <th>shop_id</th>
      <th>item_id</th>
    </tr>
  </thead>
  <tbody>
    <tr>
      <th>0</th>
      <td>0</td>
      <td>5</td>
      <td>5037</td>
    </tr>
    <tr>
      <th>1</th>
      <td>1</td>
      <td>5</td>
      <td>5320</td>
    </tr>
    <tr>
      <th>2</th>
      <td>2</td>
      <td>5</td>
      <td>5233</td>
    </tr>
    <tr>
      <th>3</th>
      <td>3</td>
      <td>5</td>
      <td>5232</td>
    </tr>
    <tr>
      <th>4</th>
      <td>4</td>
      <td>5</td>
      <td>5268</td>
    </tr>
  </tbody>
</table>
</div>
</div>

</div>

</div>
</div>

</div>
<div class="cell border-box-sizing text_cell rendered"><div class="prompt input_prompt">
</div><div class="inner_cell">
<div class="text_cell_render border-box-sizing rendered_html">
<h3 id="1.3---Data-type">1.3 - Data type<a class="anchor-link" href="#1.3---Data-type">&#182;</a>
</h3><p><strong>summary dtype and stats.</strong></p>
```

```
</div>
</div>
</div>
<div class="cell border-box-sizing code_cell rendered">
<div class="input">
<div class="prompt input_prompt">In [7]:</div>
<div class="inner_cell">
    <div class="input_area">
<div class=" highlight hl-ipython3"><pre><span></span><span class="c1"># summary dtype</span>
<span class="nb">print</span><span class="p">(</span><span class="n">train_final</span><span
class="o">.</span><span class="n">info</span><span class="p">())</span>

<span class="c1">># summary stats</span>
<span class="nb">print</span><span class="p">(</span><span class="n">train_final</span><span
class="o">.</span><span class="n">describe</span><span class="p">())</span>

<span class="c1">># check our date range</span>
<span class="nb">print</span><span class="p">(</span><span class="s1">&#39;</span><span
class="se">\n</span><span class="s1">Start date from train data: </span><span class="si">{}</span>
<span class="s1">&#39;</span><span class="o">.</span><span class="n">format</span><span class="p">
(</span><span class="n">train_final</span><span class="p">[</span><span class="s1">&#39;date&#39;
</span><span class="p">]</span><span class="o">.</span><span class="n">min</span><span class="p">()
</span><span class="o">.</span><span class="n">date</span><span class="p">()))</span>
<span class="nb">print</span><span class="p">(</span><span class="s1">&#39;End date from train data:
</span><span class="si">{}</span><span class="s1">&#39;</span><span class="o">.</span><span
class="n">format</span><span class="p">(</span><span class="n">train_final</span><span class="p">
[</span><span class="s1">&#39;date&#39;</span><span class="p">]</span><span class="o">.</span><span
class="n">max</span><span class="p">()</span><span class="o">.</span><span class="n">date</span><span
class="p">()))</span>
</pre></div>

    </div>
</div>
</div>

<div class="output_wrapper">
<div class="output">


<div class="output_area">

    <div class="prompt"></div>


<div class="output_subarea output_stream output_stdout output_text">
<pre>&lt;class &#39;pandas.core.frame.DataFrame&#39;&gt;
RangeIndex: 2935849 entries, 0 to 2935848
Data columns (total 10 columns):
date                            datetime64[ns]
date_block_num                  int64
shop_id                         int64
item_id                         int64
item_price                      float64
item_cnt_day                    float64
item_name                       object
item_category_id                int64
shop_name_translated            object
item_category_name_translated   object
dtypes: datetime64[ns](1), float64(2), int64(4), object(3)
memory usage: 224.0+ MB
None
       date_block_num       shop_id       item_id    item_price  item_cnt_day  \
count    2.935849e+06  2.935849e+06  2.935849e+06  2.935849e+06  2.935849e+06
mean     1.456991e+01  3.300173e+01  1.019723e+04  8.908532e+02  1.242641e+00
```

```
std      9.422988e+00  1.622697e+01  6.324297e+03  1.729800e+03  2.618834e+00
min      0.000000e+00  0.000000e+00  0.000000e+00 -1.000000e+00 -2.200000e+01
25%      7.000000e+00  2.200000e+01  4.476000e+03  2.490000e+02  1.000000e+00
50%      1.400000e+01  3.100000e+01  9.343000e+03  3.990000e+02  1.000000e+00
75%      2.300000e+01  4.700000e+01  1.568400e+04  9.990000e+02  1.000000e+00
max      3.300000e+01  5.900000e+01  2.216900e+04  3.079800e+05  2.169000e+03

       item_category_id
count      2.935849e+06
mean       4.000138e+01
std        1.710076e+01
min        0.000000e+00
25%        2.800000e+01
50%        4.000000e+01
75%        5.500000e+01
max        8.300000e+01

Start date from train data: 2013-01-01
End date from train data: 2015-12-10
</pre>
</div>
</div>

</div>
</div>

</div>
<div class="cell border-box-sizing text_cell rendered"><div class="prompt input_prompt">
</div><div class="inner_cell">
<div class="text_cell_render border-box-sizing rendered_html">
<h3 id="1.4---Firstline-data-cleaning-&amp;-features-adding">1.4 - Firstline data cleaning &amp;
features adding<a class="anchor-link" href="#1.4---Firstline-data-cleaning-&amp;-features-
adding">&#182;</a></h3>
</div>
</div>
</div>
<div class="cell border-box-sizing code_cell rendered">
<div class="input">
<div class="prompt input_prompt">In [8]:</div>
<div class="inner_cell">
    <div class="input_area">
<div class=" highlight hl-ipython3"><pre><span></span><span class="c1"># negative item price needs to
be fixed. Treat as typo and flip the sign.</span>
<span class="n">train_final</span><span class="p">[</span><span class="s2">&quot;item_price&quot;
</span><span class="p">]</span> <span class="o">=</span> <span class="n">np</span><span class="o">.
</span><span class="n">where</span><span class="p">(</span><span class="n">train_final</span><span
class="p">[</span><span class="s2">&quot;item_price&quot;</span><span class="p">]</span><span
class="o">&lt;</span><span class="mi">0</span><span class="p">,</span> <span
class="n">train_final</span><span class="p">[</span><span class="s2">&quot;item_price&quot;</span>
<span class="p">]</span><span class="o">*-</span><span class="mi">1</span><span class="p">,</span>
<span class="n">train_final</span><span class="p">[</span><span class="s2">&quot;item_price&quot;
</span><span class="p">])</span>

<span class="c1">># remove returned items from train set as it isn&#39;t reliable to predict
returns</span>
<span class="n">train_final</span> <span class="o">=</span> <span class="n">train_final</span><span
class="p">[</span><span class="n">train_final</span><span class="p">[</span><span
class="s1">&#39;item_cnt_day&#39;</span><span class="p">]</span><span class="o">&gt;=</span><span
class="mi">0</span><span class="p">]</span>

<span class="c1">># add day of week</span>
<span class="n">train_final</span><span class="p">[</span><span class="s1">&#39;DayofWeek&#39;</span>
<span class="p">]</span> <span class="o">=</span> <span class="n">train_final</span><span class="p">
[</span><span class="s1">&#39;date&#39;</span><span class="p">]</span><span class="o">.</span><span
class="n">apply</span><span class="p">(</span><span class="k">lambda</span> <span
```

```
class="n">time</span><span class="p">:</span> <span class="n">time</span><span class="o">.</span>
<span class="n">dayofweek</span><span class="p">)</span>

<span class="c1">#add holiday indicator</span>
<span class="n">russian_holidays</span> <span class="o">=</span> <span class="n">holidays</span><span
class="o">.</span><span class="n">Russia</span><span class="p">(</span><span class="n">years</span>
<span class="o">=</span><span class="p">[</span><span class="mi">2012</span><span class="p">,</span>
<span class="mi">2013</span><span class="p">,</span><span class="mi">2014</span><span class="p">,
</span><span class="mi">2015</span><span class="p">,</span><span class="mi">2016</span><span
class="p">,</span><span class="mi">2017</span><span class="p">,</span><span class="mi">2018</span>
<span class="p">])</span>
<span class="n">train_final</span><span class="p">[</span><span class="s1">&#39;holiday&#39;</span>
<span class="p">]</span> <span class="o">=</span> <span class="n">train_final</span><span class="p">
[</span><span class="s1">&#39;date&#39;</span><span class="p">]</span><span class="o">.</span><span
class="n">isin</span><span class="p">(</span><span class="n">russian_holidays</span><span class="p">)
</span><span class="o">*</span><span class="mi">1</span> <span class="c1"># convert to
numberic</span>

<span class="c1"># add city location and assign &quot;other&quot; if city isn&#39;t available</span>
<span class="n">train_final</span><span class="p">[</span><span class="s1">&#39;city&#39;</span><span
class="p">]</span> <span class="o">=</span> <span class="n">train_final</span><span class="p">
[</span><span class="s1">&#39;shop_name_translated&#39;</span><span class="p">]</span><span
class="o">.</span><span class="n">str</span><span class="o">.</span><span class="n">split</span><span
class="p">()</span><span class="o">.</span><span class="n">str</span><span class="o">.</span><span
class="n">get</span><span class="p">(</span><span class="mi">0</span><span class="p">)</span>
<span class="n">train_final</span><span class="p">[</span><span class="s1">&#39;city&#39;</span><span
class="p">]</span><span class="o">.</span><span class="n">unique</span><span class="p">()</span>
<span class="n">train_final</span><span class="p">[</span><span class="s2">&quot;city&quot;</span>
<span class="p">]</span> <span class="o">=</span> <span class="n">np</span><span class="o">.</span>
<span class="n">where</span><span class="p">(</span><span class="n">train_final</span><span
class="p">[</span><span class="s2">&quot;city&quot;</span><span class="p">]</span><span class="o">.
</span><span class="n">isin</span><span class="p">([</span><span class="s1">&#39;Online&#39;</span>
<span class="p">,</span><span class="s1">&#39;Outbound&#39;</span><span class="p">,</span><span
class="s1">&#39;Digital&#39;</span><span class="p">,</span><span class="s1">&#39;0&#39;</span><span
class="p">]),</span>
                                <span class="s1">&#39;other&#39;</span><span class="p">,</span>
                                <span class="n">train_final</span><span class="p">[</span><span
class="s2">&quot;city&quot;</span><span class="p">])</span>
<span class="c1"># add category </span>
<span class="n">train_final</span><span class="p">[</span><span class="s1">&#39;cat&#39;</span><span
class="p">]</span> <span class="o">=</span> <span class="n">train_final</span><span class="p">
[</span><span class="s1">&#39;item_category_name_translated&#39;</span><span class="p">]</span><span
class="o">.</span><span class="n">str</span><span class="o">.</span><span class="n">split</span><span
class="p">()</span><span class="o">.</span><span class="n">str</span><span class="o">.</span><span
class="n">get</span><span class="p">(</span><span class="mi">0</span><span class="p">)</span>
<span class="n">train_final</span><span class="p">[</span><span class="s1">&#39;cat&#39;</span><span
class="p">]</span><span class="o">.</span><span class="n">unique</span><span class="p">()</span>


<span class="c1"># add revenue = price * count</span>
<span class="n">train_final</span><span class="p">[</span><span class="s2">&quot;revenue&quot;</span>
<span class="p">]</span> <span class="o">=</span> <span class="n">train_final</span><span class="p">
[</span><span class="s1">&#39;item_price&#39;</span><span class="p">]</span> <span class="o">*</span>
<span class="n">train_final</span><span class="p">[</span><span class="s1">&#39;item_cnt_day&#39;
</span><span class="p">]</span>

<span class="c1"># remove data past Oct 2015 since we are going to predict Nov 2015</span>
<span class="c1"># remove outlier on 2013-11-29, soon after PS4 was released.</span>
<span class="n">train_final</span> <span class="o">=</span> <span class="n">train_final</span><span
class="o">.</span><span class="n">query</span><span class="p">(</span><span class="s1">&#39;date
&lt;= datetime(2015,10,31) and date != datetime(2013,11,29)&#39;</span><span class="p">)</span>

<span class="c1">#sort data by date since it&#39;s time series</span>
<span class="n">train_final</span><span class="o">=</span> <span class="n">train_final</span><span
class="o">.</span><span class="n">sort_values</span><span class="p">(</span><span class="n">by</span>
```

```
<span class="o">=</span><span class="s1">&#39;date&#39;</span><span class="p">)</span>

<span class="c1"># take a quick look</span>
<span class="nb">print</span><span class="p">(</span><span class="n">train_final</span><span
class="o">.</span><span class="n">head</span><span class="p">())</span>
<span class="nb">print</span><span class="p">(</span><span class="n">train_final</span><span
class="o">.</span><span class="n">tail</span><span class="p">())</span>
</pre></div>

    </div>
</div>
</div>

<div class="output_wrapper">
<div class="output">


<div class="output_area">

    <div class="prompt"></div>


<div class="output_subarea output_stream output_stdout output_text">
<pre>             date  date_block_num  shop_id  item_id  item_price  item_cnt_day  \
18524  2013-01-01               0       28     2415       299.0           1.0
110630 2013-01-01               0       42     5627      2380.0           1.0
17019  2013-01-01               0       28      998        99.0           1.0
18024  2013-01-01               0       28     3698       599.0           1.0
109380 2013-01-01               0       46    20391      1599.0           1.0

                                            item_name  item_category_id  \
18524        Counter Strike 1. Антология (PC-DVD) (Jewel)                30
110630  PS3: Контроллер игровой беспроводной белый (Du...                 2
17019           3D Action Puzzle &#34;Зомби &#34; Железнодорожник                67
18024   God of War: Призрак Спарты (Essentials) [PSP, ...                21
109380  Фигурка Assassin&#39;s Creed Revelations Ezio Blac...                72

                  shop_name_translated item_category_name_translated  \
18524   Moscow ТЦ &#34;MEGA Teply Stan&#34; II   PC Games - Standard Edition
110630          SPb TC &#34;Nevsky Center&#34;             Accessories - PS3
17019   Moscow ТЦ &#34;MEGA Teply Stan&#34; II           Gifts - Development
18024   Moscow ТЦ &#34;MEGA Teply Stan&#34; II                   Games - PSP
109380          Sergiev Posad TC &#34;7YA&#34;               Gifts - Figures

        DayofWeek  holiday     city          cat  revenue
18524           1        1   Moscow           PC    299.0
110630          1        1      SPb  Accessories   2380.0
17019           1        1   Moscow        Gifts     99.0
18024           1        1   Moscow        Games    599.0
109380          1        1  Sergiev        Gifts   1599.0
              date  date_block_num  shop_id  item_id  item_price  \
2922727 2015-10-31              33       28     9356       399.0
2902790 2015-10-31              33       48    19220       249.0
2910243 2015-10-31              33       14    19240       299.0
2922735 2015-10-31              33       28     9403       199.0
2888020 2015-10-31              33       42     6307       198.0

         item_cnt_day                                         item_name  \
2922727           6.0  Брелок Minecraft (blind-bag) Серия 2 в ассорти...
2902790           1.0        СУРГАНОВА СВЕТЛАНА  Игра в классики (фирм.)
2910243           1.0                                  СЧАСТЛИВЧИК (BD)
2922735           1.0            Брелок металлический WOT Рэдли (100113)
2888020           1.0               SLIM &amp; АФФЕКТ СОЛО  Симфония номер 5

         item_category_id            shop_name_translated  \
```

```
2922727                70  Moscow ТЦ &#34;MEGA Teply Stan&#34; II
2902790                55        Tomsk SEC &#34;Emerald City&#34;
2910243                37          Kazan TC &#34;ParkHaus&#34; II
2922735                70  Moscow ТЦ &#34;MEGA Teply Stan&#34; II
2888020                55          SPb TC &#34;Nevsky Center&#34;

          item_category_name_translated  DayofWeek  holiday    city     cat  \
2922727  Gifts - Souvenirs (per sample)          5        0  Moscow   Gifts
2902790  Music - CD of local production          5        0   Tomsk   Music
2910243                Cinema - Blu-Ray          5        0   Kazan  Cinema
2922735  Gifts - Souvenirs (per sample)          5        0  Moscow   Gifts
2888020  Music - CD of local production          5        0     SPb   Music

         revenue
2922727   2394.0
2902790    249.0
2910243    299.0
2922735    199.0
2888020    198.0
</pre>
</div>
</div>

</div>
</div>

</div>
<div class="cell border-box-sizing text_cell rendered"><div class="prompt input_prompt">
</div><div class="inner_cell">
<div class="text_cell_render border-box-sizing rendered_html">
<p><strong>Check if identified cities are real</strong></p>

</div>
</div>
</div>
<div class="cell border-box-sizing code_cell rendered">
<div class="input">
<div class="prompt input_prompt">In [9]:</div>
<div class="inner_cell">
    <div class="input_area">
<div class=" highlight hl-ipython3"><pre><span></span><span class="n">train_final</span><span
class="p">[</span><span class="s1">&#39;city&#39;</span><span class="p">]</span><span class="o">.
</span><span class="n">unique</span><span class="p">()</span>
</pre></div>

    </div>
</div>
</div>

<div class="output_wrapper">
<div class="output">


<div class="output_area">

    <div class="prompt output_prompt">Out[9]:</div>




<div class="output_text output_subarea output_execute_result">
<pre>array([&#39;Moscow&#39;, &#39;SPb&#39;, &#39;Sergiev&#39;, &#39;Kazan&#39;, &#39;Omsk&#39;,
&#39;Tyumen&#39;, &#39;Voronezh&#39;,
       &#39;Khimki&#39;, &#39;Kaluga&#39;, &#39;Kursk&#39;, &#39;Adygea&#39;, &#39;Novosibirsk&#39;,
       &#39;RostovNaDonu&#39;, &#39;Krasnoyarsk&#39;, &#39;Nizhny&#39;, &#39;Yakutsk&#39;,
```

```
&#39;other&#39;,
       &#39;Zhukovsky&#39;, &#39;Surgut&#39;, &#39;Samara&#39;, &#39;Ufa&#39;, &#39;Chekhov&#39;,
&#39;Yaroslavl&#39;,
       &#39;Colosseum&#39;, &#39;Volzhsky&#39;, &#39;Balashikha&#39;, &#39;Vologda&#39;,
&#39;RostovNaDon&#39;,
       &#39;Tomsk&#39;, &#39;N.Novgorod&#39;, &#39;Mytischi&#39;], dtype=object)</pre>
</div>

</div>

</div>
</div>

</div>
<div class="cell border-box-sizing text_cell rendered"><div class="prompt input_prompt">
</div><div class="inner_cell">
<div class="text_cell_render border-box-sizing rendered_html">
<h3 id="1.5---Target-ID-(shop_id-&amp;-item_id)-in-test-data">1.5 - Target ID (shop_id &amp; item_id)
in test data<a class="anchor-link" href="#1.5---Target-ID-(shop_id-&amp;-item_id)-in-test-
data">&#182;</a></h3><p><strong>make sure we target for the ID exists in the test data, as we are
predicting them.</strong>
<strong>drop reundent information</strong></p>

</div>
</div>
</div>
<div class="cell border-box-sizing code_cell rendered">
<div class="input">
<div class="prompt input_prompt">In [10]:</div>
<div class="inner_cell">
    <div class="input_area">
<div class=" highlight hl-ipython3"><pre><span></span><span class="c1"># filter shops exist only in
test data</span>
<span class="n">train_final</span> <span class="o">=</span> <span class="n">train_final</span><span
class="p">[</span><span class="n">train_final</span><span class="p">[</span><span
class="s1">&#39;shop_id&#39;</span><span class="p">]</span><span class="o">.</span><span
class="n">isin</span><span class="p">(</span><span class="n">test_data</span><span class="p">[</span>
<span class="s1">&#39;shop_id&#39;</span><span class="p">]</span><span class="o">.</span><span
class="n">unique</span><span class="p">())]</span>
<span class="c1">># filter items exist only in test data</span>
<span class="n">train_final</span> <span class="o">=</span> <span class="n">train_final</span><span
class="p">[</span><span class="n">train_final</span><span class="p">[</span><span
class="s1">&#39;item_id&#39;</span><span class="p">]</span><span class="o">.</span><span
class="n">isin</span><span class="p">(</span><span class="n">test_data</span><span class="p">[</span>
<span class="s1">&#39;item_id&#39;</span><span class="p">]</span><span class="o">.</span><span
class="n">unique</span><span class="p">())]</span>

<span class="c1">># drop redundent information</span>

<span class="n">train_final</span> <span class="o">=</span> <span class="n">train_final</span><span
class="o">.</span><span class="n">drop</span><span class="p">(</span><span class="n">columns</span>
<span class="o">=</span><span class="p">[</span><span class="s1">&#39;item_name&#39;</span><span
class="p">,</span>
                                        <span class="s1">&#39;shop_name_translated&#39;</span>
                                       <span class="p">])</span>
</pre></div>

    </div>
</div>
</div>

</div>
<div class="cell border-box-sizing text_cell rendered"><div class="prompt input_prompt">
</div><div class="inner_cell">
<div class="text_cell_render border-box-sizing rendered_html">
```

<h3 id="1.6---Data-Transformation-&-Feature-Engineering-Part-I">1.6 - Data Transformation & Feature Engineering Part I<a class="anchor-link" href="#1.6---Data-Transformation-&-Feature-Engineering-Part-I">¶</a></h3> Since We need to predict number of products sold for each shop and item in next month (Nov. 2015), we are going to aggregate our daily time series data by month for predicting next month sales.
Column "date_block_num" provides us to group by month and aggregate monthly features (more features added).

In [11]:

<pre># copy data to form our modeling data (keep original data untouched)
train_final_monthly = train_final.copy()

#column "date_block_num" provides us to group by month. non-aggregate features include in index and keep
train_final_monthly = train_final_monthly.groupby(['date_block_num',
                                                'shop_id',
                                                'item_id',
                                                'item_category_id',
                                                'DayofWeek',
                                                'city',
                                                'cat'
                                               ], as_index=False)

# aggregate features to monthly levels & extract more features
train_final_monthly = train_final_monthly.agg({'item_price':['sum', 'mean', 'max', 'min'],
                                                'item_cnt_day':['sum', 'mean','count'],
                                                'holiday':['sum'],
                                                'revenue':['sum', 'mean']
                                               })

# rename columns
train_final_monthly.columns = [
    'date_block_num',
    'shop_id',

```
    <span class="s1">&#39;item_id&#39;</span><span class="p">,</span>
    <span class="s1">&#39;item_category_id&#39;</span><span class="p">,</span>
    <span class="s1">&#39;DayofWeek&#39;</span><span class="p">,</span>
    <span class="s1">&#39;city&#39;</span><span class="p">,</span>
    <span class="s1">&#39;cat&#39;</span><span class="p">,</span>
    <span class="s1">&#39;item_price_monthly&#39;</span><span class="p">,</span> <span
class="s1">&#39;mean_item_price_monthly&#39;</span><span class="p">,</span> <span
class="s1">&#39;max_item_price_monthly&#39;</span><span class="p">,</span> <span
class="s1">&#39;min_item_price_monthly&#39;</span><span class="p">,</span>
    <span class="s1">&#39;item_cnt_monthly&#39;</span><span class="p">,</span> <span
class="s1">&#39;mean_item_cnt_monthly&#39;</span><span class="p">,</span> <span
class="s1">&#39;sold_frequency&#39;</span><span class="p">,</span>
    <span class="s1">&#39;holiday_num&#39;</span><span class="p">,</span>
    <span class="s1">&#39;revenue_monthly&#39;</span><span class="p">,</span> <span
class="s1">&#39;mean_revenue_monthly&#39;</span>
                              <span class="p">]</span>
</pre></div>

    </div>
</div>
</div>

</div>
<div class="cell border-box-sizing text_cell rendered"><div class="prompt input_prompt">
</div><div class="inner_cell">
<div class="text_cell_render border-box-sizing rendered_html">
<p><strong>Next step is to include all possible combination from the shop_id and item_id, and
date_block_num</strong></p>
<p>The assumption is that in each months, every stores should have the same items, regardless of
whether it's been sold or not.</p>

</div>
</div>
</div>
<div class="cell border-box-sizing code_cell rendered">
<div class="input">
<div class="prompt input_prompt">In [12]:</div>
<div class="inner_cell">
    <div class="input_area">
<div class=" highlight hl-ipython3"><pre><span></span><span class="c1"># include all possible
combinations</span>
<span class="n">df_all</span> <span class="o">=</span> <span class="n">pd</span><span class="o">.
</span><span class="n">DataFrame</span><span class="p">(</span><span class="nb">list</span><span
class="p">(</span><span class="n">product</span><span class="p">(</span><span
class="n">train_final_monthly</span><span class="o">.</span><span class="n">date_block_num</span>
<span class="o">.</span><span class="n">unique</span><span class="p">(),</span>
                                  <span class="n">train_final_monthly</span><span class="p">[</span>
<span class="s1">&#39;shop_id&#39;</span><span class="p">]</span><span class="o">.</span><span
class="n">unique</span><span class="p">(),</span>
                                 <span class="n">train_final_monthly</span><span class="p">[</span>
<span class="s1">&#39;item_id&#39;</span><span class="p">]</span><span class="o">.</span><span
class="n">unique</span><span class="p">())),</span>
                      <span class="n">columns</span><span class="o">=</span><span class="p">[</span>
<span class="s1">&#39;date_block_num&#39;</span><span class="p">,</span><span
class="s1">&#39;shop_id&#39;</span><span class="p">,</span><span class="s1">&#39;item_id&#39;</span>
<span class="p">])</span>
</pre></div>

    </div>
</div>
</div>

</div>
<div class="cell border-box-sizing code_cell rendered">
<div class="input">
```

```
<div class="prompt input_prompt">In [13]:</div>
<div class="inner_cell">
    <div class="input_area">
<div class=" highlight hl-ipython3"><pre><span></span><span class="n">df_all</span><span class="o">.
</span><span class="n">head</span><span class="p">()</span>
</pre></div>

    </div>
</div>
</div>

<div class="output_wrapper">
<div class="output">


<div class="output_area">

    <div class="prompt output_prompt">Out[13]:</div>



<div class="output_html rendered_html output_subarea output_execute_result">
<div>
<style scoped>
    .dataframe tbody tr th:only-of-type {
        vertical-align: middle;
    }

    .dataframe tbody tr th {
        vertical-align: top;
    }

    .dataframe thead th {
        text-align: right;
    }
</style>
<table border="1" class="dataframe">
  <thead>
    <tr style="text-align: right;">
      <th></th>
      <th>date_block_num</th>
      <th>shop_id</th>
      <th>item_id</th>
    </tr>
  </thead>
  <tbody>
    <tr>
      <th>0</th>
      <td>0</td>
      <td>2</td>
      <td>33</td>
    </tr>
    <tr>
      <th>1</th>
      <td>0</td>
      <td>2</td>
      <td>482</td>
    </tr>
    <tr>
      <th>2</th>
      <td>0</td>
      <td>2</td>
      <td>491</td>
    </tr>
    <tr>
```

```
      <th>3</th>
      <td>0</td>
      <td>2</td>
      <td>839</td>
    </tr>
    <tr>
      <th>4</th>
      <td>0</td>
      <td>2</td>
      <td>1007</td>
    </tr>
  </tbody>
</table>
</div>
</div>

</div>

</div>
</div>

</div>
<div class="cell border-box-sizing text_cell rendered"><div class="prompt input_prompt">
</div><div class="inner_cell">
<div class="text_cell_render border-box-sizing rendered_html">
<p><strong>Finally, we merge train data with all possible combinations</strong></p>
<p>This is our modeling train data. we check again the modleing dimensions.</p>

</div>
</div>
</div>
<div class="cell border-box-sizing code_cell rendered">
<div class="input">
<div class="prompt input_prompt">In [14]:</div>
<div class="inner_cell">
    <div class="input_area">
<div class=" highlight hl-ipython3"><pre><span></span><span class="c1"># merge data to form modeling
train data</span>
<span class="n">train_final_monthly_final</span> <span class="o">=</span> <span
class="n">train_final_monthly</span><span class="o">.</span><span class="n">merge</span><span
class="p">(</span><span class="n">df_all</span><span class="p">,</span>
                          <span class="n">on</span><span class="o">=</span><span class="p">[</span>
<span class="s1">&#39;date_block_num&#39;</span><span class="p">,</span><span
class="s1">&#39;shop_id&#39;</span><span class="p">,</span><span class="s1">&#39;item_id&#39;</span>
<span class="p">],</span>
                          <span class="n">how</span><span class="o">=</span><span
class="s1">&#39;left&#39;</span><span class="p">)</span>

<span class="c1">># fill nan with 0</span>
<span class="n">train_final_monthly_final</span><span class="o">.</span><span class="n">fillna</span>
<span class="p">(</span><span class="mi">0</span><span class="p">,</span> <span
class="n">inplace</span><span class="o">=</span><span class="kc">True</span><span class="p">)</span>

<span class="c1">># check dimensions</span>
<span class="nb">print</span><span class="p">(</span><span class="n">train_final_monthly_final</span>
<span class="o">.</span><span class="n">shape</span><span class="p">)</span>
</pre></div>

    </div>
</div>
</div>

<div class="output_wrapper">
<div class="output">
```

```
<div class="output_area">

    <div class="prompt"></div>


<div class="output_subarea output_stream output_stdout output_text">
<pre>(1000488, 17)
</pre>
</div>
</div>

</div>
</div>

</div>
<div class="cell border-box-sizing text_cell rendered"><div class="prompt input_prompt">
</div><div class="inner_cell">
<div class="text_cell_render border-box-sizing rendered_html">
<p><strong>Adding calendar year and month features.</strong></p>

</div>
</div>
</div>
<div class="cell border-box-sizing code_cell rendered">
<div class="input">
<div class="prompt input_prompt">In [15]:</div>
<div class="inner_cell">
    <div class="input_area">
<div class=" highlight hl-ipython3"><pre><span></span><span class="c1"># calendar year</span>
<span class="n">train_final_monthly_final</span><span class="p">[</span><span
class="s1">&#39;year&#39;</span><span class="p">]</span> <span class="o">=</span> <span
class="n">train_final_monthly_final</span><span class="p">[</span><span
class="s1">&#39;date_block_num&#39;</span><span class="p">]</span><span class="o">.</span><span
class="n">apply</span><span class="p">(</span><span class="k">lambda</span> <span class="n">x</span>
<span class="p">:</span> <span class="p">(</span><span class="mi">2013</span> <span class="o">+
</span> <span class="p">(</span><span class="n">x</span><span class="o">//</span><span
class="mi">12</span><span class="p">)))</span>

<span class="c1">># calendar month</span>
<span class="n">train_final_monthly_final</span><span class="p">[</span><span
class="s1">&#39;month&#39;</span><span class="p">]</span> <span class="o">=</span> <span
class="n">train_final_monthly_final</span><span class="p">[</span><span
class="s1">&#39;date_block_num&#39;</span><span class="p">]</span><span class="o">.</span><span
class="n">apply</span><span class="p">(</span><span class="k">lambda</span> <span class="n">x</span>
<span class="p">:</span> <span class="p">(</span><span class="n">x</span> <span class="o">%</span>
<span class="mi">12</span><span class="p">))</span>
</pre></div>

    </div>
</div>
</div>

</div>
<div class="cell border-box-sizing text_cell rendered">
<div class="prompt input_prompt">
</div><div class="inner_cell">
<div class="text_cell_render border-box-sizing rendered_html">
<h1 id="2---Exploratory-Data-Analysis">2 - Exploratory Data Analysis<a class="anchor-link" href="#2--
-Exploratory-Data-Analysis">&#182;</a></h1>
</div>
</div>
</div>
<div class="cell border-box-sizing text_cell rendered">
<div class="prompt input_prompt">
</div><div class="inner_cell">
<div class="text_cell_render border-box-sizing rendered_html">
```

```
<p><strong>helper function</strong></p>

</div>
</div>
</div>
<div class="cell border-box-sizing code_cell rendered">
<div class="input">
<div class="prompt input_prompt">In [16]:</div>
<div class="inner_cell">
    <div class="input_area">
<div class=" highlight hl-ipython3"><pre><span></span><span class="k">def</span> <span
class="nf">plot_line</span> <span class="p">(</span><span class="n">data</span><span class="p">,
</span> <span class="n">i</span><span class="p">,</span> <span class="n">title</span><span
class="p">):</span>
    <span class="sd">&quot;&quot;&quot;</span>
<span class="sd">    help function to do lineplot for each month and items sold</span>
<span class="sd">    </span>
<span class="sd">    Args(dataframe, int, str):</span>
<span class="sd">        data(dataframe): dataframe to plot</span>
<span class="sd">        i(int): Axes object to draw the plot onto</span>
<span class="sd">        title(string): title of the plot</span>
<span class="sd">        </span>
<span class="sd">    Return(plot): line plot</span>
<span class="sd">    &quot;&quot;&quot;</span>
    <span class="n">sns</span><span class="o">.</span><span class="n">lineplot</span><span class="p">
(</span><span class="n">x</span><span class="o">=</span><span class="s1">&#39;month&#39;</span><span
class="p">,</span>
             <span class="n">y</span><span class="o">=</span><span
class="s1">&#39;item_cnt_monthly&#39;</span><span class="p">,</span>
             <span class="n">data</span><span class="o">=</span><span class="n">data</span><span
class="p">,</span>
             <span class="n">ax</span><span class="o">=</span><span class="n">axes</span><span
class="p">[</span><span class="n">i</span><span class="p">])</span><span class="o">.</span><span
class="n">set_title</span><span class="p">(</span><span class="n">title</span><span class="p">)
</span>
</pre></div>

    </div>
</div>
</div>

</div>
<div class="cell border-box-sizing code_cell rendered">
<div class="input">
<div class="prompt input_prompt">In [17]:</div>
<div class="inner_cell">
    <div class="input_area">
<div class=" highlight hl-ipython3"><pre><span></span><span class="k">def</span> <span
class="nf">plot_bar</span><span class="p">(</span><span class="n">x</span><span class="p">,</span>
<span class="n">y</span><span class="p">,</span> <span class="n">dataset</span><span class="p">,
</span> <span class="n">title</span><span class="p">):</span>
    <span class="sd">&quot;&quot;&quot;</span>
<span class="sd">    help function to do bar plot based on shop ID</span>
<span class="sd">    </span>
<span class="sd">    Args(str, dataframe,str):</span>
<span class="sd">        x(string): x axis label</span>
<span class="sd">        y(string): y axis label</span>
<span class="sd">        dataset(dataframe): dataframe to plot</span>
<span class="sd">        title(string): title of the plot</span>
<span class="sd">        </span>
<span class="sd">    Return(plot): bar plot</span>
<span class="sd">    &quot;&quot;&quot;</span>
    <span class="n">fig</span><span class="p">,</span> <span class="n">axes</span> <span class="o">=
</span> <span class="n">plt</span><span class="o">.</span><span class="n">subplots</span><span
class="p">(</span><span class="n">figsize</span><span class="o">=</span><span class="p">(</span><span
```

```
class="mi">20</span><span class="p">,</span> <span class="mi">5</span><span class="p">),</span> <span
class="n">sharex</span><span class="o">=</span><span class="kc">True</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">x</span><span class="o">=</span><span class="n">x</span><span class="p">,
</span>
            <span class="n">y</span><span class="o">=</span><span class="n">y</span><span class="p">,
</span>
            <span class="n">data</span><span class="o">=</span><span class="n">dataset</span><span
class="p">)</span><span class="o">.</span><span class="n">set_title</span><span class="p">(</span>
<span class="n">title</span><span class="p">)</span>
    <span class="n">plt</span><span class="o">.</span><span class="n">show</span><span class="p">()
</span>

</pre></div>

    </div>
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</div>

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products sold<a class="anchor-link" href="#2.1---monthly-behaviors---number-of-products-sold">&#182;
</a></h3>
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</span> <span class="n">axes</span> <span class="o">=</span> <span class="n">plt</span><span
class="o">.</span><span class="n">subplots</span><span class="p">(</span><span class="mi">4</span>
<span class="p">,</span> <span class="mi">1</span><span class="p">,</span> <span
class="n">figsize</span><span class="o">=</span><span class="p">(</span><span class="mi">20</span>
<span class="p">,</span> <span class="mi">10</span><span class="p">),</span> <span
class="n">sharex</span><span class="o">=</span><span class="kc">True</span><span class="p">)</span>

<span class="n">plotdata</span> <span class="o">=</span> <span
class="n">train_final_monthly_final</span><span class="o">.</span><span class="n">groupby</span><span
class="p">([</span><span class="s1">&#39;month&#39;</span><span class="p">],</span> <span
class="n">as_index</span><span class="o">=</span><span class="kc">False</span><span class="p">)
[</span><span class="s1">&#39;item_cnt_monthly&#39;</span><span class="p">]</span>

<span class="c1"># plot mean of monthly items sold </span>
<span class="n">plot_line</span><span class="p">(</span><span class="n">plotdata</span><span
class="o">.</span><span class="n">mean</span><span class="p">(),</span><span class="mi">0</span><span
class="p">,</span><span class="s1">&#39;num products sold - monthly mean&#39;</span><span class="p">)
</span>

<span class="c1"># plot median of monthly items sold </span>
<span class="n">plot_line</span><span class="p">(</span><span class="n">plotdata</span><span
class="o">.</span><span class="n">median</span><span class="p">(),</span><span class="mi">1</span>
<span class="p">,</span><span class="s1">&#39;num products sold - monthly median&#39;</span><span
class="p">)</span>

<span class="c1"># plot sum of monthly items sold </span>
<span class="n">plot_line</span><span class="p">(</span><span class="n">plotdata</span><span
class="o">.</span><span class="n">sum</span><span class="p">(),</span><span class="mi">2</span><span
class="p">,</span><span class="s1">&#39;num products sold - monthly total&#39;</span><span
```

```
class="p">)</span>

<span class="c1"># plot max of monthly items sold </span>
<span class="n">plot_line</span><span class="p">(</span><span class="n">plotdata</span><span
class="o">.</span><span class="n">max</span><span class="p">(),</span><span class="mi">3</span><span
class="p">,</span><span class="s1">&#39;num products sold - monthly max&#39;</span><span class="p">)
</span>

<span class="n">plt</span><span class="o">.</span><span class="n">show</span><span class="p">()
</span>
</pre></div>

    </div>
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<div class="output">


<div class="output_area">

    <div class="prompt"></div>




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kRERERER
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class="n">groupby</span><span class="p">([</span><span class="s1">&#39;shop_id&#39;</span><span
class="p">],</span> <span class="n">as_index</span><span class="o">=</span><span
class="kc">False</span><span class="p">)[</span><span class="s1">&#39;item_cnt_monthly&#39;</span>
<span class="p">]</span><span class="o">.</span><span class="n">sum</span><span class="p">()</span>
<span class="n">plot_bar</span><span class="p">(</span><span class="s1">&#39;shop_id&#39;</span><span
class="p">,</span><span class="s1">&#39;item_cnt_monthly&#39;</span><span class="p">,</span><span
class="n">data_item</span><span class="p">,</span> <span class="s2">&quot;total count of products
sold by shop&quot;</span><span class="p">)</span>

<span class="n">data_rev</span> <span class="o">=</span> <span
class="n">train_final_monthly_final</span><span class="o">.</span><span class="n">groupby</span><span
class="p">([</span><span class="s1">&#39;shop_id&#39;</span><span class="p">],</span> <span
class="n">as_index</span><span class="o">=</span><span class="kc">False</span><span class="p">)
[</span><span class="s1">&#39;revenue_monthly&#39;</span><span class="p">]</span><span class="o">.
</span><span class="n">sum</span><span class="p">()</span>
<span class="n">plot_bar</span><span class="p">(</span><span class="s1">&#39;shop_id&#39;</span><span
class="p">,</span><span class="s1">&#39;revenue_monthly&#39;</span><span class="p">,</span><span
class="n">data_rev</span><span class="p">,</span> <span class="s2">&quot;total revenue of products
sold by shop&quot;</span><span class="p">)</span>

<span class="n">data_category</span> <span class="o">=</span><span
class="n">train_final_monthly_final</span><span class="o">.</span><span class="n">groupby</span><span
class="p">([</span><span class="s1">&#39;cat&#39;</span><span class="p">],</span> <span
class="n">as_index</span><span class="o">=</span><span class="kc">False</span><span class="p">)
[</span><span class="s1">&#39;item_cnt_monthly&#39;</span><span class="p">]</span><span class="o">.
</span><span class="n">sum</span><span class="p">()</span>
<span class="n">plot_bar</span><span class="p">(</span><span class="s1">&#39;cat&#39;</span><span
class="p">,</span><span class="s1">&#39;item_cnt_monthly&#39;</span><span class="p">,</span><span
class="n">data_category</span><span class="p">,</span> <span class="s2">&quot;total count of product
sold by category&quot;</span><span class="p">)</span>

<span class="n">data_city</span> <span class="o">=</span> <span
class="n">train_final_monthly_final</span><span class="o">.</span><span class="n">groupby</span><span
class="p">([</span><span class="s1">&#39;city&#39;</span><span class="p">],</span> <span
class="n">as_index</span><span class="o">=</span><span class="kc">False</span><span class="p">)
[</span><span class="s1">&#39;item_cnt_monthly&#39;</span><span class="p">]</span><span class="o">.
</span><span class="n">sum</span><span class="p">()</span>
<span class="n">plot_bar</span><span class="p">(</span><span class="s1">&#39;city&#39;</span><span
class="p">,</span><span class="s1">&#39;item_cnt_monthly&#39;</span><span class="p">,</span><span
```

class="n">data_city, 'total count of products sold by city')

data_city_avg = train_final_monthly_final.groupby(['city'], as_index=False)['item_cnt_monthly'].mean()
plot_bar('city','item_cnt_monthly',data_city_avg, 'average count of products sold by city')

data_shop = train_final_monthly_final.groupby("city").agg({"shop_id":pd.Series.nunique}).reset_index()
plot_bar('city','shop_id',data_shop, 'total number of unique shops in each city')
</pre>

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"
>

<ul>
<li> total count of products sold by shop:
identify what's the best selling shop - based on total number of items sold -- Shop 31 has the most number of items sold
</li>
<li> total revenue of products sold by shop:
identify what's the best selling shop - based on total revenue -- shop 31 has the highest revenue, but shop 25's revenue is not far even though the number of items sold are much less. It indicates that shop 25 sold more high price items.
</li>
<li> total count of product sold by category:
games, pc, music, and gifts have the largest number of items sold. Games, music and gifts makes sense since they are cheaper, day-to-day items. PC's number is a little surprising.
</li>
<li> total count of products sold by city:
Moscow has the largest number of items sold but it's unclear if it's because more shops are in Moscow or the shops in Moscow sells more items.
</li>
<li> total number of unique shops in each city:
Moscow has the most shops which drives larger sales. Larger sales in Moscow is not driven by larger sales at each shop.
</li>
<li> average count of products sold by city:
from this chart, we can see that moscow doesnt have the highest average number of items sold, so it just has a lot more shops than other cities.
</li>
</ul>

```
<div class="text_cell_render border-box-sizing rendered_html">
<h3 id="2.3---Move-on-to-check-our-dependent-variable-(output-variable)">2.3 - Move on to check our
dependent variable (output variable)<a class="anchor-link" href="#2.3---Move-on-to-check-our-
dependent-variable-(output-variable)">&#182;</a></h3>
</div>
</div>
</div>
<div class="cell border-box-sizing text_cell rendered"><div class="prompt input_prompt">
</div><div class="inner_cell">
<div class="text_cell_render border-box-sizing rendered_html">
<p><strong>Firstly, get a sense of the summary stats for the data to be modelled.</strong></p>

</div>
</div>
</div>
<div class="cell border-box-sizing code_cell rendered">
<div class="input">
<div class="prompt input_prompt">In [20]:</div>
<div class="inner_cell">
    <div class="input_area">
<div class=" highlight hl-ipython3"><pre><span></span><span
class="n">train_final_monthly_final</span><span class="p">[</span><span
class="s1">&#39;item_cnt_monthly&#39;</span><span class="p">]</span><span class="o">.</span><span
class="n">describe</span><span class="p">()</span>
</pre></div>

    </div>
</div>
</div>

<div class="output_wrapper">
<div class="output">


<div class="output_area">

    <div class="prompt output_prompt">Out[20]:</div>




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mean     1.580270e+00
std      4.493189e+00
min      1.000000e+00
25%      1.000000e+00
50%      1.000000e+00
75%      1.000000e+00
max      2.188000e+03
Name: item_cnt_monthly, dtype: float64</pre>
</div>

</div>

</div>
</div>

</div>
<div class="cell border-box-sizing text_cell rendered"><div class="prompt input_prompt">
</div><div class="inner_cell">
<div class="text_cell_render border-box-sizing rendered_html">
<p><strong>Visualize data by boxplots - monthly number of items sold</strong></p>

</div>
```

```
</div>
</div>
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<div class="prompt input_prompt">In [21]:</div>
<div class="inner_cell">
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<div class=" highlight hl-ipython3"><pre><span></span><span class="c1"># boxplots</span>
<span class="n">plt</span><span class="o">.</span><span class="n">subplots</span><span class="p">
(</span><span class="n">figsize</span><span class="o">=</span><span class="p">(</span><span
class="mi">10</span><span class="p">,</span> <span class="mi">5</span><span class="p">))</span>
<span class="n">sns</span><span class="o">.</span><span class="n">boxplot</span><span class="p">
(</span><span class="n">train_final_monthly_final</span><span class="p">[</span><span
class="s1">&#39;item_cnt_monthly&#39;</span><span class="p">])</span>
<span class="n">plt</span><span class="o">.</span><span class="n">show</span><span class="p">()
</span>
</pre></div>

    </div>
</div>
</div>

<div class="output_wrapper">
<div class="output">


<div class="output_area">

    <div class="prompt"></div>




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>

Visualize the density and data distribution - monthly number of items sold

In [22]:

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plt.show()

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Visualize the density and data distribution - monthly revenue

In [23]:

<pre># boxplots - revenue
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sns.boxplot
(train_final_monthly_final[<span
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plt.show()

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<h3 id="From-the-observation-above,-the-data-appears-to-be-heavily-skewed-to-the-right.-Let's-remove-extreme-outliers.">From the observation above, the data appears to be heavily skewed to the right. Let's remove extreme outliers.<a class="anchor-link" href="#From-the-observation-above,-the-data-appears-to-be-heavily-skewed-to-the-right.-Let's-remove-extreme-outliers.">¶</a></h3>

Check again for the extreme values for monthly items sold and monthly revenue.

```
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<div class="input">
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<div class=" highlight hl-ipython3"><pre><span></span><span class="nb">print</span><span class="p">
(</span><span class="n">train_final_monthly_final</span><span class="p">[</span><span
class="s1">&#39;item_cnt_monthly&#39;</span><span class="p">]</span><span class="o">.</span><span
class="n">max</span><span class="p">())</span>
<span class="nb">print</span><span class="p">(</span><span class="n">train_final_monthly_final</span>
<span class="p">[</span><span class="s1">&#39;revenue_monthly&#39;</span><span class="p">]</span>
<span class="o">.</span><span class="n">max</span><span class="p">())</span>
</pre></div>

    </div>
</div>
</div>

<div class="output_wrapper">
<div class="output">


<div class="output_area">

    <div class="prompt"></div>


<div class="output_subarea output_stream output_stdout output_text">
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</div>
<div class="cell border-box-sizing text_cell rendered"><div class="prompt input_prompt">
</div><div class="inner_cell">
<div class="text_cell_render border-box-sizing rendered_html">
<p>From the abovementioned analysis, we decided to model remove outliers down to 200 monthly items
sold and keep total revenue under $50,0000.</p>

</div>
</div>
</div>
<div class="cell border-box-sizing code_cell rendered">
<div class="input">
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<div class="inner_cell">
    <div class="input_area">
<div class=" highlight hl-ipython3"><pre><span></span><span class="c1"># remove outliers</span>
<span class="n">train_final_monthly_final</span> <span class="o">=</span> <span
class="n">train_final_monthly_final</span><span class="o">.</span><span class="n">query</span><span
class="p">(</span><span class="s1">&#39;item_cnt_monthly &lt;= 200 and revenue_monthly &lt;=
500000&#39;</span><span class="p">)</span>
</pre></div>

    </div>
</div>
</div>

</div>
<div class="cell border-box-sizing text_cell rendered">
```

```
</div><div class="inner_cell">
<div class="text_cell_render border-box-sizing rendered_html">
<p>Let's check again the maximum values after removeing those extreme outliers.</p>
<p><strong>This is going to be our modeling data for dependent variable.</strong></p>

</div>
</div>
</div>
<div class="cell border-box-sizing code_cell rendered">
<div class="input">
<div class="prompt input_prompt">In [26]:</div>
<div class="inner_cell">
    <div class="input_area">
<div class=" highlight hl-ipython3"><pre><span></span><span class="c1"># after remove</span>
<span class="nb">print</span><span class="p">(</span><span class="n">train_final_monthly_final</span>
<span class="p">[</span><span class="s1">&#39;item_cnt_monthly&#39;</span><span class="p">]</span>
<span class="o">.</span><span class="n">max</span><span class="p">())</span>
<span class="nb">print</span><span class="p">(</span><span class="n">train_final_monthly_final</span>
<span class="p">[</span><span class="s1">&#39;revenue_monthly&#39;</span><span class="p">]</span>
<span class="o">.</span><span class="n">max</span><span class="p">())</span>
</pre></div>

    </div>
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<div class="output_wrapper">
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</div>
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</div><div class="inner_cell">
<div class="text_cell_render border-box-sizing rendered_html">
<p><strong>Visualize our modeling dependent data - boxplot.</strong></p>

</div>
</div>
</div>
<div class="cell border-box-sizing code_cell rendered">
<div class="input">
<div class="prompt input_prompt">In [27]:</div>
<div class="inner_cell">
    <div class="input_area">
<div class=" highlight hl-ipython3"><pre><span></span><span class="c1">># boxplots</span>
<span class="n">plt</span><span class="o">.</span><span class="n">subplots</span><span class="p">
(</span><span class="n">figsize</span><span class="o">=</span><span class="p">(</span><span
class="mi">10</span><span class="p">,</span> <span class="mi">5</span><span class="p">))</span>
<span class="n">sns</span><span class="o">.</span><span class="n">boxplot</span><span class="p">
(</span><span class="n">train_final_monthly_final</span><span class="p">[</span><span
```

```
class="s1">&#39;item_cnt_monthly&#39;</span><span class="p">])</span>
<span class="n">plt</span><span class="o">.</span><span class="n">show</span><span class="p">()
</span>
</pre></div>

    </div>
</div>
</div>

<div class="output_wrapper">
<div class="output">


<div class="output_area">

    <div class="prompt"></div>




<div class="output_png output_subarea ">
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Visualize our modeling dependent data - density plot (distribution).

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<span class="n">plt</span><span class="o">.</span><span class="n">show</span><span class="p">()
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q+qv4zvW8F31ZVJwEnAX/eXXYF4GXAu4GXAP8CeHFVrQE+A7x3L4/xSeD6qnoZcCK9b9aG3qVMLq6qlwL/CLylqr4GrKd33cHjq2r
7Xu733qo6HvguvW/xPhN4BfAfu+V/TO/CyS+jd2mVT/RdZuYEenu1jqN3JYRXVdUngZ8Br62q13b9DgRu6Gr/DvDn/QVU1Z3AtiTH
d01/Cvy3vdQsaQ4ydEmaCafSu8bZRuBGepflWNUtW1dV91fVDnqX47i6a7+V3mHKPfkD4FMA1buY8bau/e6q2thNb5jiPibz5HVYb
wVurKpfVdVDwI4kh9K71Mjfd4/5AHA9vSAJ8P2q2lK9Cytv3Mtj7wT+9xQ1fgb40+7aeGcBX3qG45A0y40OuwBJ81KA91bVVU9rTH
4f2NHXNN43P86z+5vUf39jwKSHEgdYv7+WQeuZ+Nh76r+rfnPNtT31+zrwIeBaYENVPTzFY0uaY9zTJWk6/Ap4bt/8VcB7kiwGSPL
iJAfu42N8C3hPd38jSQ55hjU9W98Fzuoecxl wCvD96X7sqnqC3u/tU3hoUZqXDF2SpsMtwFh3ovj76R0qux24KcltwCXs+571vwRe
m+RWeofojpui/+eAT+/tRPoBXUFvfDfT2wv1V1X18ynWuRT4P/0n0g/oi/T2sF09VUdJc09+s8dbkjRM3Xd2HVJV/2HYtUiafp7TJ
UmzQJIrgBfS+8CApHnIPV2SZpUkFwBvndD81ar6yD7c5xXAygnN/27iif6SNJMMXZIkSQ14Ir0kSVIDhi5JkqQGDF2SJEkNGLokPW
IaMHRJkiQ18P8AdL5JoJKRBa4AAAAASUVORK5CYII=
"
>

```
</div>
</div>

</div>
<div class="cell border-box-sizing text_cell rendered"><div class="prompt input_prompt">
</div><div class="inner_cell">
<div class="text_cell_render border-box-sizing rendered_html">
<h1 id="3---Modeling-&amp;-Machine-Learning-Implementation">3 - Modeling &amp; Machine Learning
Implementation<a class="anchor-link" href="#3---Modeling-&amp;-Machine-Learning-
Implementation">&#182;</a></h1>
</div>
</div>
</div>
<div class="cell border-box-sizing text_cell rendered"><div class="prompt input_prompt">
</div><div class="inner_cell">
<div class="text_cell_render border-box-sizing rendered_html">
<h3 id="3.1---Create-modeling-labels">3.1 - Create modeling labels<a class="anchor-link" href="#3.1--
-Create-modeling-labels">&#182;</a></h3><p><strong>Noted that we shift data -1, meaning $X_{t-1}$ ,
therefore later when we fit the model, the outcome is $Y_{t}$ already, which corresponding to the
next month</strong></p>

</div>
</div>
</div>
<div class="cell border-box-sizing code_cell rendered">
<div class="input">
<div class="prompt input_prompt">In [29]:</div>
<div class="inner_cell">
    <div class="input_area">
<div class=" highlight hl-ipython3"><pre><span></span><span class="c1"># create modeling
labels</span>
<span class="c1"># shift -1 meaning X_t-1, so later when we fit the model, the outcome is Y_t
already(next month)</span>
<span class="n">train_final_monthly_final</span><span class="p">[</span><span
class="s1">&#39;item_cnt_month&#39;</span><span class="p">]</span> <span class="o">=</span> <span
class="n">train_final_monthly_final</span> \
                                        <span class="o">.</span><span
class="n">sort_values</span><span class="p">(</span><span class="s1">&#39;date_block_num&#39;</span>
<span class="p">)</span> \
                                        <span class="o">.</span><span class="n">groupby</span>
<span class="p">([</span><span class="s1">&#39;shop_id&#39;</span><span class="p">,</span> <span
class="s1">&#39;item_id&#39;</span><span class="p">])[</span><span
class="s1">&#39;item_cnt_monthly&#39;</span><span class="p">]</span> \
                                        <span class="o">.</span><span class="n">shift</span><span
class="p">(</span><span class="o">-</span><span class="mi">1</span><span class="p">)</span>

<span class="c1"># fill nan with 0</span>
<span class="n">train_final_monthly_final</span><span class="p">[</span><span
class="s1">&#39;item_cnt_month&#39;</span><span class="p">]</span><span class="o">.</span><span
class="n">fillna</span><span class="p">(</span><span class="mi">0</span><span class="p">,</span>
<span class="n">inplace</span><span class="o">=</span><span class="kc">True</span><span class="p">)
</span>
</pre></div>

    </div>
</div>
</div>

</div>
<div class="cell border-box-sizing text_cell rendered"><div class="prompt input_prompt">
</div><div class="inner_cell">
<div class="text_cell_render border-box-sizing rendered_html">
<h3 id="3.2---Feature-engineering-part-II---add-more-features">3.2 - Feature engineering part II -
add more features<a class="anchor-link" href="#3.2---Feature-engineering-part-II---add-more-
features">&#182;</a></h3>
```

```
</div>
</div>
</div>
<div class="cell border-box-sizing text_cell rendered"><div class="prompt input_prompt">
</div><div class="inner_cell">
<div class="text_cell_render border-box-sizing rendered_html">
<p><strong>Add weekly number of products sold.</strong></p>

</div>
</div>
</div>
<div class="cell border-box-sizing code_cell rendered">
<div class="input">
<div class="prompt input_prompt">In [30]:</div>
<div class="inner_cell">
    <div class="input_area">
<div class=" highlight hl-ipython3"><pre><span></span><span class="c1"># add weekly num of products
sold</span>

<span class="n">train_final_monthly_final</span><span class="p">[</span><span
class="s1">&#39;item_cnt_week&#39;</span><span class="p">]</span> <span class="o">=</span> <span
class="n">train_final_monthly_final</span> \
                                          <span class="o">.</span><span
class="n">sort_values</span><span class="p">(</span><span class="s1">&#39;date_block_num&#39;</span>
<span class="p">)</span> \
                                          <span class="o">.</span><span class="n">groupby</span>
<span class="p">([</span><span class="s1">&#39;shop_id&#39;</span><span class="p">,</span> <span
class="s1">&#39;item_id&#39;</span><span class="p">])[</span><span
class="s1">&#39;item_cnt_monthly&#39;</span><span class="p">]</span> \
                                          <span class="o">.</span><span class="n">shift</span><span
class="p">(</span><span class="o">-</span><span class="mf">0.25</span><span class="p">)</span>
<span class="c1"># fill nan with 0</span>
<span class="n">train_final_monthly_final</span><span class="p">[</span><span
class="s1">&#39;item_cnt_week&#39;</span><span class="p">]</span><span class="o">.</span><span
class="n">fillna</span><span class="p">(</span><span class="mi">0</span><span class="p">,</span>
<span class="n">inplace</span><span class="o">=</span><span class="kc">True</span><span class="p">)
</span>
</pre></div>

    </div>
</div>
</div>

</div>
<div class="cell border-box-sizing text_cell rendered"><div class="prompt input_prompt">
</div><div class="inner_cell">
<div class="text_cell_render border-box-sizing rendered_html">
<p><strong>add seasonality, trend, and volatility - monthly number of products sold.</strong></p>

</div>
</div>
</div>
<div class="cell border-box-sizing code_cell rendered">
<div class="input">
<div class="prompt input_prompt">In [31]:</div>
<div class="inner_cell">
    <div class="input_area">
<div class=" highlight hl-ipython3"><pre><span></span><span class="c1"># set fucntion to add
quarterly number of products sold, trend, and volatility</span>
<span class="n">qtr_min</span> <span class="o">=</span> <span class="k">lambda</span> <span
class="n">x</span><span class="p">:</span> <span class="n">x</span><span class="o">.</span><span
class="n">rolling</span><span class="p">(</span><span class="mi">3</span><span class="p">,</span>
<span class="n">min_periods</span><span class="o">=</span><span class="mi">1</span><span class="p">)
</span><span class="o">.</span><span class="n">min</span><span class="p">()</span>
<span class="n">qtr_max</span> <span class="o">=</span> <span class="k">lambda</span> <span
```

```
class="n">x</span><span class="p">:</span> <span class="n">x</span><span class="o">.</span><span
class="n">rolling</span><span class="p">(</span><span class="mi">3</span><span class="p">,</span>
<span class="n">min_periods</span><span class="o">=</span><span class="mi">1</span><span class="p">)
</span><span class="o">.</span><span class="n">max</span><span class="p">()</span>
<span class="n">qtr_mean</span> <span class="o">=</span> <span class="k">lambda</span> <span
class="n">x</span><span class="p">:</span> <span class="n">x</span><span class="o">.</span><span
class="n">rolling</span><span class="p">(</span><span class="mi">3</span><span class="p">,</span>
<span class="n">min_periods</span><span class="o">=</span><span class="mi">1</span><span class="p">)
</span><span class="o">.</span><span class="n">mean</span><span class="p">()</span>
<span class="n">qtr_std</span> <span class="o">=</span> <span class="k">lambda</span> <span
class="n">x</span><span class="p">:</span> <span class="n">x</span><span class="o">.</span><span
class="n">rolling</span><span class="p">(</span><span class="mi">3</span><span class="p">,</span>
<span class="n">min_periods</span><span class="o">=</span><span class="mi">1</span><span class="p">)
</span><span class="o">.</span><span class="n">std</span><span class="p">()</span>

<span class="n">f_qtr</span> <span class="o">=</span> <span class="p">[</span><span
class="n">qtr_min</span><span class="p">,</span> <span class="n">qtr_max</span><span class="p">,
</span> <span class="n">qtr_mean</span><span class="p">,</span> <span class="n">qtr_std</span><span
class="p">]</span>
<span class="n">f_col</span> <span class="o">=</span> <span class="p">[</span><span
class="s1">&#39;qtr_min&#39;</span><span class="p">,</span> <span class="s1">&#39;qtr_max&#39;</span>
<span class="p">,</span> <span class="s1">&#39;qtr_mean&#39;</span><span class="p">,</span> <span
class="s1">&#39;qtr_vols&#39;</span><span class="p">]</span>


<span class="c1"># implementation</span>
<span class="k">for</span> <span class="n">i</span> <span class="ow">in</span> <span
class="nb">range</span><span class="p">(</span><span class="nb">len</span><span class="p">(</span>
<span class="n">f_qtr</span><span class="p">)):</span>
    <span class="n">train_final_monthly_final</span><span class="p">[(</span><span
class="s1">&#39;item_cnt_</span><span class="si">%s</span><span class="s1">&#39;</span> <span
class="o">%</span> <span class="n">f_col</span><span class="p">[</span><span class="n">i</span><span
class="p">])]</span> \
    <span class="o">=</span> <span class="n">train_final_monthly_final</span><span class="o">.</span>
<span class="n">sort_values</span><span class="p">(</span><span class="s1">&#39;date_block_num&#39;
</span><span class="p">)</span>\
                        <span class="o">.</span><span class="n">groupby</span><span class="p">
([</span><span class="s1">&#39;shop_id&#39;</span><span class="p">,</span> <span
class="s1">&#39;item_id&#39;</span><span class="p">])[</span><span
class="s1">&#39;item_cnt_monthly&#39;</span><span class="p">]</span>\
                        <span class="o">.</span><span class="n">apply</span><span class="p">(</span>
<span class="n">f_qtr</span><span class="p">[</span><span class="n">i</span><span class="p">])</span>

<span class="c1"># fill nan to 0</span>
<span class="n">train_final_monthly_final</span><span class="p">[</span><span
class="s1">&#39;item_cnt_qtr_vols&#39;</span><span class="p">]</span><span class="o">.</span><span
class="n">fillna</span><span class="p">(</span><span class="mi">0</span><span class="p">,</span>
<span class="n">inplace</span><span class="o">=</span><span class="kc">True</span><span class="p">)
</span>
</pre></div>

    </div>
</div>
</div>

</div>
<div class="cell border-box-sizing text_cell rendered"><div class="prompt input_prompt">
</div><div class="inner_cell">
<div class="text_cell_render border-box-sizing rendered_html">
<p>data type and final modeling</p>

</div>
</div>
</div>
<div class="cell border-box-sizing code_cell rendered">
```

```
<div class="input">
<div class="prompt input_prompt">In [32]:</div>
<div class="inner_cell">
    <div class="input_area">
<div class=" highlight hl-ipython3"><pre><span></span><span
class="n">train_final_monthly_final</span><span class="o">.</span><span class="n">info</span><span
class="p">()</span>
</pre></div>

    </div>
</div>
</div>

<div class="output_wrapper">
<div class="output">


<div class="output_area">

    <div class="prompt"></div>


<div class="output_subarea output_stream output_stdout output_text">
<pre>&lt;class &#39;pandas.core.frame.DataFrame&#39;&gt;
Int64Index: 1000431 entries, 0 to 1000487
Data columns (total 25 columns):
date_block_num             1000431 non-null int64
shop_id                    1000431 non-null int64
item_id                    1000431 non-null int64
item_category_id           1000431 non-null int64
DayofWeek                  1000431 non-null int64
city                       1000431 non-null object
cat                        1000431 non-null object
item_price_monthly         1000431 non-null float64
mean_item_price_monthly    1000431 non-null float64
max_item_price_monthly     1000431 non-null float64
min_item_price_monthly     1000431 non-null float64
item_cnt_monthly           1000431 non-null float64
mean_item_cnt_monthly      1000431 non-null float64
sold_frequency             1000431 non-null int64
holiday_num                1000431 non-null int64
revenue_monthly            1000431 non-null float64
mean_revenue_monthly       1000431 non-null float64
year                       1000431 non-null int64
month                      1000431 non-null int64
item_cnt_month             1000431 non-null float64
item_cnt_week              1000431 non-null float64
item_cnt_qtr_min           1000431 non-null float64
item_cnt_qtr_max           1000431 non-null float64
item_cnt_qtr_mean          1000431 non-null float64
item_cnt_qtr_vols          1000431 non-null float64
dtypes: float64(14), int64(9), object(2)
memory usage: 198.4+ MB
</pre>
</div>
</div>

</div>
</div>

</div>
<div class="cell border-box-sizing text_cell rendered"><div class="prompt input_prompt">
</div><div class="inner_cell">
<div class="text_cell_render border-box-sizing rendered_html">
<h3 id="3.3---Econde-the-categorical-features">3.3 - Econde the categorical features<a class="anchor-
```

```
link" href="#3.3---Econde-the-categorical-features">&#182;</a></h3><p>This is to make sure we follow
the supervised learning setting that all features to be meaningful and can implement supervised
learning algorithm.</p>
<p><strong>1. Based on our findings from EDA, we have item category encoded to be numeric values but
still a categorical based.</strong></p>
<p><strong>2. For the 'city' feature, we noticed the pattern is that store in 'other' deemed outliers
based on our Exploratory Analysis. As such, we seperate 'city' data by identifying where the store is
'in' other, or 'not in' other.</strong></p>

</div>
</div>
</div>
<div class="cell border-box-sizing code_cell rendered">
<div class="input">
<div class="prompt input_prompt">In [33]:</div>
<div class="inner_cell">
    <div class="input_area">
<div class=" highlight hl-ipython3"><pre><span></span><span class="c1"># for item cateogory</span>
<span class="n">category</span> <span class="o">=</span> <span class="p">{</span><span
class="s1">&#39;Cinema&#39;</span><span class="p">:</span> <span class="mi">1</span><span class="p">,
</span>
            <span class="s1">&#39;Programs&#39;</span><span class="p">:</span><span
class="mi">2</span><span class="p">,</span>
            <span class="s1">&#39;Gifts&#39;</span><span class="p">:</span><span class="mi">3</span>
<span class="p">,</span>
            <span class="s1">&#39;Music&#39;</span><span class="p">:</span><span class="mi">4</span>
<span class="p">,</span>
            <span class="s1">&#39;Games&#39;</span><span class="p">:</span><span class="mi">5</span>
<span class="p">,</span>
            <span class="s1">&#39;PC&#39;</span><span class="p">:</span><span class="mi">6</span>
<span class="p">,</span>
            <span class="s1">&#39;Accessories&#39;</span><span class="p">:</span><span
class="mi">7</span><span class="p">,</span>
            <span class="s1">&#39;Payment&#39;</span><span class="p">:</span><span
class="mi">8</span><span class="p">,</span>
            <span class="s1">&#39;Books&#39;</span><span class="p">:</span><span class="mi">9</span>
<span class="p">,</span>
            <span class="s1">&#39;Office&#39;</span><span class="p">:</span><span
class="mi">10</span><span class="p">,</span>
            <span class="s1">&#39;Elements&#39;</span><span class="p">:</span><span
class="mi">11</span><span class="p">,</span>
            <span class="mi">0</span><span class="p">:</span><span class="mi">0</span><span
class="p">,</span>
            <span class="s1">&#39;Delivery&#39;</span><span class="p">:</span><span
class="mi">12</span><span class="p">,</span>
            <span class="s1">&#39;Game&#39;</span><span class="p">:</span><span class="mi">13</span>
<span class="p">,</span>
            <span class="s1">&#39;Android&#39;</span><span class="p">:</span><span
class="mi">14</span>
           <span class="p">}</span>

<span class="n">train_final_monthly_final</span><span class="p">[</span><span
class="s1">&#39;cat&#39;</span><span class="p">]</span> <span class="o">=</span> <span class="p">
[</span><span class="n">category</span><span class="p">[</span><span class="n">item</span><span
class="p">]</span> <span class="k">for</span> <span class="n">item</span> <span class="ow">in</span>
<span class="n">train_final_monthly_final</span><span class="o">.</span><span class="n">cat</span>
<span class="p">]</span>

<span class="c1">># for city</span>
<span class="n">city</span> <span class="o">=</span> <span class="p">{</span><span
class="s1">&#39;Adygea&#39;</span><span class="p">:</span><span class="mi">0</span><span class="p">,
</span> <span class="mi">0</span><span class="p">:</span><span class="mi">0</span><span class="p">,
</span>
        <span class="s1">&#39;Balashikha&#39;</span><span class="p">:</span><span class="mi">0</span>
<span class="p">,</span> <span class="s1">&#39;Volzhsky&#39;</span><span class="p">:</span><span
```

class="mi">0,
'Voronezh':0
, 'Zhukovsky':<span
class="mi">0,
'other':1<span
class="p">, 'Kazan':<span
class="mi">0,
'Kaluga':0
, 'Colosseum':<span
class="mi">0,
'Krasnoyarsk':<span
class="mi">0, 'Kursk':
0,
'Moscow':0
, 'Nizhny':<span
class="mi">0,
'Novosibirsk':<span
class="mi">0, 'Omsk':
0,
'RostovNaDonu':<span
class="mi">0, 'SPb':
0,
'Samara':0
, 'Sergiev':<span
class="mi">0,
'Surgut':0
, 'Tyumen':<span
class="mi">0,
'Ufa':0<span
class="p">, 'Chekhov':<span
class="mi">0,
'Yaroslavl':0
, 'Vologda':<span
class="mi">0,
'Yakutsk':0
, 'RostovNaDon':<span
class="mi">0,
'Tomsk':0<span
class="p">, 'N.Novgorod':<span
class="mi">0
}

train_final_monthly_final[<span
class="s1">'city'] =
[city[item<span
class="p">] for item in
train_final_monthly_final.city
]
</pre>

<h3 id="3.4---Normalization">3.4 - Normalization<a class="anchor-link" href="#3.4---
Normalization">¶</a></h3> This is to make sure we follow the supervised learning setting that
all features to be meaningful and can implement supervised learning algorithm.

```
<div class="cell border-box-sizing text_cell rendered"><div class="prompt input_prompt">
</div><div class="inner_cell">
<div class="text_cell_render border-box-sizing rendered_html">
<p><strong>helper function</strong></p>

</div>
</div>
</div>
<div class="cell border-box-sizing code_cell rendered">
<div class="input">
<div class="prompt input_prompt">In [108]:</div>
<div class="inner_cell">
    <div class="input_area">
<div class=" highlight hl-ipython3"><pre><span></span><span class="k">def</span> <span
class="nf">normalization</span><span class="p">(</span><span class="n">df</span><span class="p">,
</span> <span class="n">scaler</span><span class="o">=</span><span class="n">MinMaxScaler</span><span
class="p">):</span>
    <span class="sd">&quot;&quot;&quot; This is to normalize the pandas dataframe values for
supervised learning purposes.</span>
<span class="sd">    </span>
<span class="sd">    Args:</span>
<span class="sd">        df(array): dataframe want to be normlized.</span>
<span class="sd">    </span>
<span class="sd">    Kwargs:</span>
<span class="sd">        scaler(method function): integrate from sklearn preprocessing package for
normalization methods.</span>
<span class="sd">                                Default is set to use MinMaxScaler</span>
<span class="sd">    </span>
<span class="sd">    Returns:</span>
<span class="sd">        (array): It returns pandas datafrmae with the normalized values.</span>
<span class="sd">    </span>
<span class="sd">    &quot;&quot;&quot;</span>

    <span class="c1"># grab values</span>
    <span class="n">values</span> <span class="o">=</span> <span class="n">df</span><span class="o">.
</span><span class="n">values</span><span class="o">.</span><span class="n">astype</span><span
class="p">(</span><span class="s1">&#39;float32&#39;</span><span class="p">)</span>


    <span class="c1"># check what sclaer to choose</span>
    <span class="k">if</span> <span class="n">scaler</span> <span class="o">==</span> <span
class="n">MinMaxScaler</span><span class="p">:</span>
        <span class="n">scaler</span> <span class="o">=</span> <span class="n">MinMaxScaler</span>
<span class="p">(</span><span class="n">feature_range</span><span class="o">=</span><span class="p">
(</span><span class="mi">0</span><span class="p">,</span> <span class="mi">1</span><span class="p">))
</span>
    <span class="k">else</span><span class="p">:</span>
        <span class="n">scaler</span> <span class="o">=</span> <span class="n">StandardScaler</span>
<span class="p">()</span>

    <span class="c1"># fit transform data </span>
    <span class="n">scaled2</span> <span class="o">=</span> <span class="n">scaler</span><span
class="o">.</span><span class="n">fit_transform</span><span class="p">(</span><span
class="n">values</span><span class="p">)</span>

    <span class="c1"># transformt to pandas dataframe</span>
    <span class="n">df_normal</span> <span class="o">=</span> <span class="n">pd</span><span
class="o">.</span><span class="n">DataFrame</span><span class="p">(</span><span
class="n">scaled2</span><span class="p">)</span>

    <span class="c1"># rename columns</span>
    <span class="n">cols</span> <span class="o">=</span> <span class="nb">list</span><span class="p">
(</span><span class="n">df</span><span class="o">.</span><span class="n">columns</span><span
class="o">.</span><span class="n">values</span><span class="p">)</span>
    <span class="n">df_normal</span><span class="o">.</span><span class="n">columns</span> <span
```

```
class="o">=</span> <span class="n">cols</span>

    <span class="k">return</span> <span class="n">df_normal</span>
</pre></div>

    </div>
</div>
</div>

</div>
<div class="cell border-box-sizing text_cell rendered"><div class="prompt input_prompt">
</div><div class="inner_cell">
<div class="text_cell_render border-box-sizing rendered_html">
<h3 id="3.5---Training,-Testing,-and-Model-Implementation">3.5 - Training, Testing, and Model
Implementation<a class="anchor-link" href="#3.5---Training,-Testing,-and-Model-Implementation">&#182;
</a></h3><h5 id="A----------------------------------------------------------------------------------------
----------------------------">A ----------------------------------------------------------------------------
----------------------------------------<a class="anchor-link" href="#A-----------------------------
-------------------------------------------------------------------------------">&#182;</a></h5>
<p><strong>In this problem, we implement a tree based gradient boosting framework (xgboost/ python)
to build, train, and test our model.</strong></p>
<h5 id="B----------------------------------------------------------------------------------------------
-------------------">B ----------------------------------------------------------------------------------
--------------------------------<a class="anchor-link" href="#B-------------------------------------
-----------------------------------------------------------------------------">&#182;</a></h5><p>
<strong>Short Introduction of xgboost (reference from wiki):</strong></p>
<p>Gradient boosting produces a prediction model in the form of an ensemble of weak prediction
models, typically decision trees. It builds the model in a stage-wise fashion like other boosting
methods do, and it generalizes them by allowing optimization of a differentiable loss function.</p>
<p>Like other boosting methods, gradient boosting combines weak "learners" into a single strong
learner in an iterative fashion. It is easiest to explain in the least-squares regression setting,
where the goal is to teach a model $F$ to predict values of the form $\hat{y}=F(x)$ by minimizing the
mean squared error $\tfrac {1}{n}\sum _{i}({\hat {y}}_{i}-y_{i})^{2}$, where i indexes over some
training set of size n of actual values of the output variable y.</p>
<p>The gradient boosting algorithm improves on $F_{m}$ by constructing a new model that adds an
estimator h to provide a better model: $F_{m+1}(x)=F_{m}(x)+h(x)$. To find h, the gradient boosting
solution starts with the observation that a perfect h would imply</p>
<p>$F_{m+1}(x)=F_{m}(x)+h(x)=y$</p>
<p>Therefore, gradient boosting will fit h to the residual $y-F_{m}(x)$. As in other boosting
variants, each $F_{m+1}$ attempts to correct the errors of its predecessor $F_{m}$. A generalization
of this idea to loss functions other than squared error, and to classification and ranking problems,
follows from the observation that residuals $y-F(x)$ for a given model are the negative gradients
(with respect to $F(x)$ of the squared error loss function $\frac {1}{2}(y-F(x))^{2}$.</p>
<p>In short, gradient boosting is a gradient descent algorithm, and generalizing it entails "plugging
in" a different loss and its gradient.</p>
<h5 id="C----------------------------------------------------------------------------------------------
-------------------">C ----------------------------------------------------------------------------------
--------------------------------<a class="anchor-link" href="#C-------------------------------------
-----------------------------------------------------------------------------">&#182;</a></h5><p>
<strong>This section includes:</strong></p>
<p>(1) - Split train and dev set (using time series split, we split at 5).</p>
<p>(2) - Normalize the train and test set (with the help of the above helper function).</p>
<p>(3) - Obtain the train and test set for model implementation.</p>
<p>(4) - Implement the gradient boosting algorithm. (Noted that we model on poisson distribution, and
the hyper parameters are fine tuned in gridseach describe in the next section).</p>
<p>(5) - After training, collect the prediction values from both train and test set.</p>
<p>(6) - print out the accuary (Given the problem, our selecting metrics to evaluate error should be
explained by root mean squared error (rmse). Our metrics to assess accuracy have both
explained_variance and R-squared(r2_score from sklearn), thought this two are pretty much the same
for regression probelms. we just wanted to get a sense of how difference it is if any and double
check.</p>
<p>(7) - We visualize the train and test erros for each time series split, training, and testing.
This is to help us understand the model fitting process, and the optimal time to stop.</p>

</div>
```

```
</div>
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</div><div class="inner_cell">
<div class="text_cell_render border-box-sizing rendered_html">
<h5 id="Explaination-of-multiple-time-series-train-test-split-(sklearn)">Explaination of multiple
time series train-test split (sklearn)<a class="anchor-link" href="#Explaination-of-multiple-time-
series-train-test-split-(sklearn)">&#182;</a></h5><p>When evaluating a model for time series
forecasting, we are interested in the performance of the model on data that was not used to train it.
</p>
<p>In applied machine learning, we often split our data into a train and a test set: the training set
used to prepare the model and the test set used to evaluate it. We may even use k-fold cross
validation that repeats this process by systematically splitting the data into k groups, each given a
chance to be a held out model.</p>
<p><strong>These methods cannot be directly used with time series data.</strong></p>
<p>This is because they assume that there is no relationship between the observations, that each
observation is independent. This is not true of time series data, where the time dimension of
observations means that we cannot randomly split them into groups. Instead, we must split data up and
respect the temporal order in which values were observed.</p>
<p>Therefore, we repeat the process of splitting the time series into train and test sets multiple
times. This will require multiple models to be trained and evaluated, but this additional
computational expense will provide a more robust estimate of the expected performance of the chosen
method and configuration on unseen data.</p>
<p><strong>The sklearn package provides this capability for us in the TimeSeriesSplit object.
</strong></p>
<p>In our example we have 5 splits to create and the TimeSeriesSplit to return the indexes of the
train and test observations for each requested split.</p>

</div>
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</div>
<div class="cell border-box-sizing text_cell rendered">
<div class="prompt input_prompt">
</div><div class="inner_cell">
<div class="text_cell_render border-box-sizing rendered_html">
<h5 id="Modeling-Pipeline-helper-function">Modeling Pipeline helper function<a class="anchor-link"
href="#Modeling-Pipeline-helper-function">&#182;</a></h5>
</div>
</div>
</div>
<div class="cell border-box-sizing code_cell rendered">
<div class="input">
<div class="prompt input_prompt">In [110]:</div>
<div class="inner_cell">
    <div class="input_area">
<div class=" highlight hl-ipython3"><pre><span></span><span class="k">def</span> <span
class="nf">model_pipline</span><span class="p">(</span><span class="n">df</span><span class="p">,
</span> <span class="n">time_split</span><span class="p">):</span>
    <span class="sd">&quot;&quot;&quot;xgboost modeling and reporting pipline.</span>
<span class="sd">    </span>
<span class="sd">    Args:</span>
<span class="sd">        df(dataframe): modeling data in pandas dataframe format.</span>
<span class="sd">        time_split(int): number of time series split for cross valaidation multiple
time series.</span>
<span class="sd">    </span>
<span class="sd">    Returns:</span>
<span class="sd">        error report(array): rmse for each traning and testing.</span>
<span class="sd">        accuracy report(float): collections of explained variance and r2_score(from
python metrics). </span>
<span class="sd">        error chart(chart): visualization of rmse in traning and testing steps.
</span>
<span class="sd">        feature importance chart(chart): visualization of feature importance of the
model.</span>
<span class="sd">        tree structure(graph): visualization of the tree structure.</span>
<span class="sd">        xgb_test_pred(array): the predictive values for the next month items sold.
</span>
```

    """

    """(0) - Setup time series spliting for train and test set
    """
    tscv = TimeSeriesSplit(n_splits=time_split)
    X = df.drop(['item_cnt_month'], axis = 1)
    Y = df['item_cnt_month']
    TimeSeriesSplit(max_train_size=None, n_splits=time_split)

    for train_index, test_index in tscv.split(df):

        """ (1) - Split train and dev set """
        print("TRAIN:", train_index, "TEST:", test_index)
        X_train, X_test = X.iloc[train_index], X.iloc[test_index]
        y_train, y_test = Y.iloc[train_index], Y.iloc[test_index]

        # drop features that are not meaningful
        X_train = X_train.drop(columns =['shop_id', 'item_id', 'item_category_id'])
        X_test = X_test.drop(columns =['shop_id', 'item_id', 'item_category_id'])

        """(2) - Normalize the train and test set (with the help of the above helper function) """
        X_train_normal = normalization(X_train, scaler=MinMaxScaler)
        X_test_normal = normalization(X_test, scaler=MinMaxScaler)

```
        <span class="sd">&quot;&quot;&quot;(3) - Obtain final train and test set for model
implementation &quot;&quot;&quot;</span>
        <span class="n">xgb_train</span> <span class="o">=</span> <span
class="n">X_train_normal</span><span class="p">[</span><span class="n">X_train_normal</span><span
class="o">.</span><span class="n">columns</span><span class="p">]</span>
        <span class="n">xgb_test</span> <span class="o">=</span> <span class="n">X_test_normal</span>
<span class="p">[</span><span class="n">X_test_normal</span><span class="o">.</span><span
class="n">columns</span><span class="p">]</span>
        <span class="nb">print</span><span class="p">(</span><span class="n">f</span><span
class="s2">&quot;&quot;&quot;</span>
<span class="s2">        Train data shape: </span><span class="si">{xgb_train.shape}</span><span
class="s2"></span>
<span class="s2">        Test data shape: </span><span class="si">{xgb_test.shape}</span><span
class="s2"></span>
<span class="s2">        &quot;&quot;&quot;</span><span class="p">)</span>

        <span class="sd">&quot;&quot;&quot;(4) - Implement the gradient boosting algorithm
&quot;&quot;&quot;</span>
        <span class="c1"># Noted that we model on poisson distribution with the best hyper paramters
</span>
        <span class="c1"># the hyper parameters are fine tuned in gridseach described in section
4</span>
        <span class="c1"># initiate the xgboost model with hyper parameter setting to the best
parameters</span>
        <span class="n">xgb_model</span> <span class="o">=</span> <span class="n">XGBRegressor</span>
<span class="p">(</span><span class="n">objective</span><span class="o">=</span><span
class="s1">&#39;reg:tweedie&#39;</span><span class="p">,</span>
                              <span class="n">gamma</span><span class="o">=</span><span
class="mf">0.3</span><span class="p">,</span>
                              <span class="n">max_depth</span><span class="o">=</span><span
class="mi">4</span><span class="p">,</span>
                              <span class="n">n_estimators</span><span class="o">=</span><span
class="mi">400</span><span class="p">,</span>
                              <span class="n">min_child_weight</span><span class="o">=</span><span
class="mi">41</span><span class="p">,</span>
                              <span class="n">colsample_bytree</span><span class="o">=</span><span
class="mf">0.8</span><span class="p">,</span>
                              <span class="n">subsample</span><span class="o">=</span><span
class="mf">0.9</span><span class="p">,</span>
                              <span class="n">eta</span><span class="o">=</span><span
class="mf">0.1</span><span class="p">,</span>
                              <span class="n">seed</span><span class="o">=</span><span
class="mi">0</span><span class="p">)</span>

        <span class="c1"># fit the algo, with error metric to be rmse</span>
        <span class="n">xgb_model</span><span class="o">.</span><span class="n">fit</span><span
class="p">(</span><span class="n">xgb_train</span><span class="p">,</span>
                  <span class="n">y_train</span><span class="p">,</span>
                  <span class="n">eval_metric</span><span class="o">=</span><span
class="s1">&#39;rmse&#39;</span><span class="p">,</span>
                  <span class="n">eval_set</span><span class="o">=</span><span class="p">[(</span>
<span class="n">xgb_train</span><span class="p">,</span> <span class="n">y_train</span><span
class="p">),</span> <span class="p">(</span><span class="n">xgb_test</span><span class="p">,</span>
<span class="n">y_test</span><span class="p">)],</span>
                  <span class="n">verbose</span><span class="o">=</span><span class="mi">20</span>
<span class="p">,</span>
                  <span class="n">early_stopping_rounds</span><span class="o">=</span><span
class="mi">50</span><span class="p">)</span>


        <span class="sd">&quot;&quot;&quot;(5) - Collect the prediction values from both train and
test set&quot;&quot;&quot;</span>
        <span class="n">xgb_train_pred</span> <span class="o">=</span> <span
class="n">xgb_model</span><span class="o">.</span><span class="n">predict</span><span class="p">
(</span><span class="n">xgb_train</span><span class="p">)</span>
```

```
        <span class="n">xgb_test_pred</span> <span class="o">=</span> <span
class="n">xgb_model</span><span class="o">.</span><span class="n">predict</span><span class="p">
(</span><span class="n">xgb_test</span><span class="p">)</span>


        <span class="sd">&quot;&quot;&quot;(6) - print out the accuary </span>
<span class="sd">        (Given the problem, our selecting metrics to evaluate error should be
explained by root mean squared error (rmse).</span>
<span class="sd">        Our metrics to assess accuracy have both explained_variance and R-
squared(r2_score from sklearn), </span>
<span class="sd">        thought this two are pretty much the same for regression probelms. </span>
<span class="sd">        We just wanted to get a sense of how difference it is if any and double
check.</span>
<span class="sd">        &quot;&quot;&quot;</span>

        <span class="nb">print</span><span class="p">(</span><span class="n">f</span><span
class="s2">&quot;&quot;&quot;</span>
<span class="s2">        train rmse: {np.sqrt(mean_squared_error(y_train, xgb_train_pred))}</span>
<span class="s2">        test rmse: {np.sqrt(mean_squared_error(y_test, xgb_test_pred))}</span>
<span class="s2">        train explained variance: {explained_variance_score(y_train,
xgb_train_pred)}</span>
<span class="s2">        test explained variance: {explained_variance_score(y_test, xgb_test_pred)}
</span>
<span class="s2">        train r2 score: {r2_score(y_train, xgb_train_pred)}</span>
<span class="s2">        test r2 score: {r2_score(y_test, xgb_test_pred)}</span>

<span class="s2">        &quot;&quot;&quot;</span><span class="p">)</span>


        <span class="sd">&quot;&quot;&quot;(7) - We visualize the train and test erros for each time
series split, training, and testing.</span>
<span class="sd">        This is to help us understand the model fitting process, and the optimal
time to stop.</span>
<span class="sd">        &quot;&quot;&quot;</span>
        <span class="c1"># preparation for plotting</span>
        <span class="n">results</span> <span class="o">=</span> <span class="n">xgb_model</span><span
class="o">.</span><span class="n">evals_result</span><span class="p">()</span>
        <span class="n">epochs</span> <span class="o">=</span> <span class="nb">len</span><span
class="p">(</span><span class="n">results</span><span class="p">[</span><span
class="s1">&#39;validation_0&#39;</span><span class="p">][</span><span class="s1">&#39;rmse&#39;
</span><span class="p">])</span>
        <span class="n">x_axis</span> <span class="o">=</span> <span class="nb">range</span><span
class="p">(</span><span class="mi">0</span><span class="p">,</span> <span class="n">epochs</span>
<span class="p">)</span>

        <span class="c1"># plot train and test error</span>
        <span class="n">fig</span><span class="p">,</span> <span class="n">ax</span> <span
class="o">=</span> <span class="n">plt</span><span class="o">.</span><span class="n">subplots</span>
<span class="p">()</span>
        <span class="n">ax</span><span class="o">.</span><span class="n">plot</span><span class="p">
(</span><span class="n">x_axis</span><span class="p">,</span> <span class="n">results</span><span
class="p">[</span><span class="s1">&#39;validation_0&#39;</span><span class="p">][</span><span
class="s1">&#39;rmse&#39;</span><span class="p">],</span> <span class="n">label</span><span
class="o">=</span><span class="s1">&#39;Train&#39;</span><span class="p">)</span>
        <span class="n">ax</span><span class="o">.</span><span class="n">plot</span><span class="p">
(</span><span class="n">x_axis</span><span class="p">,</span> <span class="n">results</span><span
class="p">[</span><span class="s1">&#39;validation_1&#39;</span><span class="p">][</span><span
class="s1">&#39;rmse&#39;</span><span class="p">],</span> <span class="n">label</span><span
class="o">=</span><span class="s1">&#39;Test&#39;</span><span class="p">)</span>
        <span class="n">ax</span><span class="o">.</span><span class="n">legend</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">&#39;rmse&#39;</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">&#39;XGBoost Regression Error&#39;</span><span class="p">)</span>
```

```
        <span class="n">plt</span><span class="o">.</span><span class="n">show</span><span class="p">
()</span>

        <span class="c1"># visualize feature importance</span>
        <span class="nb">print</span><span class="p">(</span><span class="s1">&#39;</span><span
class="se">\n</span><span class="s1">Number of times a feature is used to split the data across all
trees:&#39;</span><span class="p">)</span>
        <span class="n">plt</span><span class="o">.</span><span class="n">rcParams</span><span
class="p">[</span><span class="s2">&quot;figure.figsize&quot;</span><span class="p">]</span> <span
class="o">=</span> <span class="p">(</span><span class="mi">20</span><span class="p">,</span> <span
class="mi">10</span><span class="p">)</span>
        <span class="n">plot_importance</span><span class="p">(</span><span
class="n">xgb_model</span><span class="p">)</span>
        <span class="n">plt</span><span class="o">.</span><span class="n">show</span><span class="p">
()</span>

        <span class="nb">print</span><span class="p">(</span><span class="s1">&#39;</span><span
class="se">\n</span><span class="s1">Number of times a feature is used to split the data across all
trees weighted by the number of training data points that go through those splits:&#39;</span><span
class="p">)</span>
        <span class="n">plt</span><span class="o">.</span><span class="n">rcParams</span><span
class="p">[</span><span class="s2">&quot;figure.figsize&quot;</span><span class="p">]</span> <span
class="o">=</span> <span class="p">(</span><span class="mi">20</span><span class="p">,</span> <span
class="mi">10</span><span class="p">)</span>
        <span class="n">plot_importance</span><span class="p">(</span><span
class="n">xgb_model</span><span class="p">,</span> <span class="n">importance_type</span><span
class="o">=</span><span class="s1">&#39;gain&#39;</span><span class="p">)</span>
        <span class="n">plt</span><span class="o">.</span><span class="n">show</span><span class="p">
()</span>

        <span class="nb">print</span><span class="p">(</span><span class="s1">&#39;</span><span
class="se">\n</span><span class="s1">The average training loss reduction gained when using a feature
for splitting:&#39;</span><span class="p">)</span>
        <span class="n">plt</span><span class="o">.</span><span class="n">rcParams</span><span
class="p">[</span><span class="s2">&quot;figure.figsize&quot;</span><span class="p">]</span> <span
class="o">=</span> <span class="p">(</span><span class="mi">20</span><span class="p">,</span> <span
class="mi">10</span><span class="p">)</span>
        <span class="n">plot_importance</span><span class="p">(</span><span
class="n">xgb_model</span><span class="p">,</span> <span class="n">importance_type</span><span
class="o">=</span><span class="s1">&#39;cover&#39;</span><span class="p">)</span>
        <span class="n">plt</span><span class="o">.</span><span class="n">show</span><span class="p">
()</span>

        <span class="c1"># visualize the tree structure</span>
        <span class="nb">print</span><span class="p">(</span><span class="s1">&#39;</span><span
class="se">\n</span><span class="s1">Visualize the trees&#39;</span><span class="p">)</span>
        <span class="n">plt</span><span class="o">.</span><span class="n">rcParams</span><span
class="p">[</span><span class="s2">&quot;figure.figsize&quot;</span><span class="p">]</span> <span
class="o">=</span> <span class="p">(</span><span class="mi">20</span><span class="p">,</span> <span
class="mi">10</span><span class="p">)</span>
        <span class="n">plot_tree</span><span class="p">(</span><span class="n">xgb_model</span><span
class="p">)</span>
        <span class="n">plt</span><span class="o">.</span><span class="n">show</span><span class="p">
()</span>

    <span class="k">return</span> <span class="n">xgb_test_pred</span>

</pre></div>

    </div>
</div>
</div>

</div>
<div class="cell border-box-sizing text_cell rendered"><div class="prompt input_prompt">
```

```
</div><div class="inner_cell">
<div class="text_cell_render border-box-sizing rendered_html">
<h3 id="Champion-Model">Champion Model<a class="anchor-link" href="#Champion-Model">&#182;</a></h3>
</div>
</div>
</div>
<div class="cell border-box-sizing code_cell rendered">
<div class="input">
<div class="prompt input_prompt">In [111]:</div>
<div class="inner_cell">
    <div class="input_area">
<div class=" highlight hl-ipython3"><pre><span></span><span class="c1"># data to be
implemented</span>
<span class="n">train_final_monthly_m</span> <span class="o">=</span> <span
class="n">train_final_monthly_final</span><span class="o">.</span><span class="n">copy</span><span
class="p">()</span>

<span class="c1"># traning, testing, and reporting</span>
<span class="n">m</span> <span class="o">=</span> <span class="n">model_pipline</span><span
class="p">(</span><span class="n">train_final_monthly_m</span><span class="p">,</span> <span
class="mi">5</span><span class="p">)</span>
<span class="n">m</span>
</pre></div>

    </div>
</div>
</div>

<div class="output_wrapper">
<div class="output">


<div class="output_area">

    <div class="prompt"></div>


<div class="output_subarea output_stream output_stdout output_text">
<pre>TRAIN: [     0      1      2 ... 166738 166739 166740] TEST: [166741 166742 166743 ... 333476
333477 333478]

        Train data shape: (166741, 21)
        Test data shape: (166738, 21)

[0]     validation_0-rmse:4.25173       validation_1-rmse:3.94712
Multiple eval metrics have been passed: &#39;validation_1-rmse&#39; will be used for early stopping.

Will train until validation_1-rmse hasn&#39;t improved in 50 rounds.
[20]    validation_0-rmse:3.40564       validation_1-rmse:3.115
[40]    validation_0-rmse:2.4625        validation_1-rmse:2.22724
[60]    validation_0-rmse:2.31054       validation_1-rmse:2.16291
[80]    validation_0-rmse:2.25195       validation_1-rmse:2.19501
[100]   validation_0-rmse:2.20351       validation_1-rmse:2.25629
Stopping. Best iteration:
[63]    validation_0-rmse:2.29838       validation_1-rmse:2.15161


        train rmse: 2.2984520517285687
        test rmse: 2.151684967702661
        train explained variance: 0.686107012950975
        test explained variance: 0.6791160041830816
        train r2 score: 0.6860875271936551
        test r2 score: 0.6783571554929159
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<div class="output_area">

    <div class="prompt"></div>




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Number of times a feature is used to split the data across all trees weighted by the number of
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>

<pre>TRAIN: [0 1 2 ... 333476 333477 333478] TEST: [333479 333480 333481 ... 500214
500215 500216]

Train data shape: (333479, 21)
Test data shape: (166738, 21)

[0] validation_0-rmse:4.09504 validation_1-rmse:3.20116
Multiple eval metrics have been passed: 'validation_1-rmse' will be used for early stopping.

Will train until validation_1-rmse hasn't improved in 50 rounds.
[20] validation_0-rmse:3.25918 validation_1-rmse:2.47998
[40] validation_0-rmse:2.31541 validation_1-rmse:2.08582
[60] validation_0-rmse:2.19821 validation_1-rmse:2.11434
[80] validation_0-rmse:2.14937 validation_1-rmse:2.11048
Stopping. Best iteration:
[42] validation_0-rmse:2.28799 validation_1-rmse:2.08166

train rmse: 2.2885712541376435
test rmse: 2.0817520335813176
train explained variance: 0.6646818312894955
test explained variance: 0.5436419661114267
train r2 score: 0.6645148431885977

```
test r2 score: 0.5401266552272033
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Number of times a feature is used to split the data across all trees:
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<div class="output_area">

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<div class="output_subarea output_stream output_stdout output_text">
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666953 666954]

        Train data shape: (500217, 21)
        Test data shape: (166738, 21)

[0]     validation_0-rmse:3.81336       validation_1-rmse:3.55034
Multiple eval metrics have been passed: &#39;validation_1-rmse&#39; will be used for early stopping.

Will train until validation_1-rmse hasn&#39;t improved in 50 rounds.
[20]    validation_0-rmse:3.04162       validation_1-rmse:2.82884
[40]    validation_0-rmse:2.22097       validation_1-rmse:2.15979
[60]    validation_0-rmse:2.12438       validation_1-rmse:2.12179
[80]    validation_0-rmse:2.08726       validation_1-rmse:2.14981
[100]   validation_0-rmse:2.06351       validation_1-rmse:2.17171
Stopping. Best iteration:
[55]    validation_0-rmse:2.13371       validation_1-rmse:2.11186


        train rmse: 2.1345848647813863
        test rmse: 2.1120177830962503
        train explained variance: 0.6639428538000482
        test explained variance: 0.617620920034421
        train r2 score: 0.6639170273468062
        test r2 score: 0.6173119376487195


</pre>
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<div class="output_area">

    <div class="prompt"></div>




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gg==
"
>

<pre>TRAIN: [0   1   2 ... 666952 666953 666954] TEST: [666955 666956 666957 ... 833690
833691 833692]

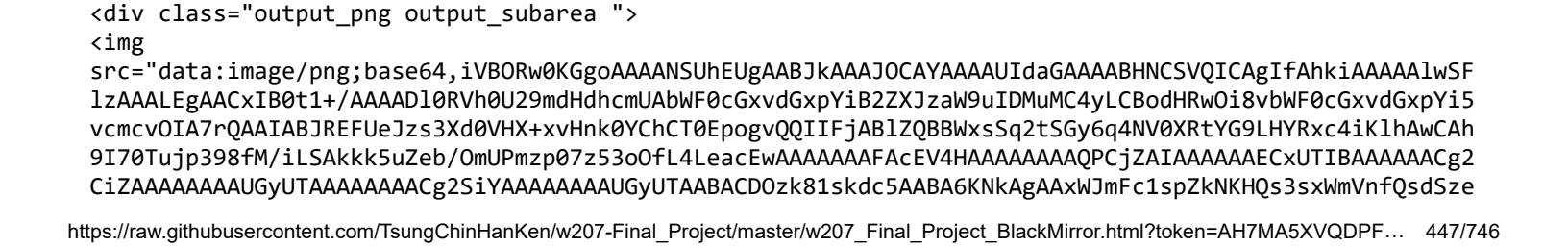
        Train data shape: (666955, 21)
        Test data shape: (166738, 21)

[0]   validation_0-rmse:3.74348   validation_1-rmse:2.86529
Multiple eval metrics have been passed: 'validation_1-rmse' will be used for early stopping.

Will train until validation_1-rmse hasn't improved in 50 rounds.
[20]   validation_0-rmse:2.99033   validation_1-rmse:2.35295
[40]   validation_0-rmse:2.19731   validation_1-rmse:2.15957
[60]   validation_0-rmse:2.10782   validation_1-rmse:2.18078
[80]   validation_0-rmse:2.08215   validation_1-rmse:2.18428
Stopping. Best iteration:
[35]   validation_0-rmse:2.28433   validation_1-rmse:2.14895

        train rmse: 2.2857194011864532
        test rmse: 2.1491226201508433
        train explained variance: 0.6011692256945224
        test explained variance: 0.39917778800911097
        train r2 score: 0.6006639022938708
        test r2 score: 0.39702903116037935

</pre>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<pre>
The average training loss reduction gained when using a feature for splitting:
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<pre>TRAIN: [0   1   2 ... 833690 833691 833692] TEST: [833693 833694 833695 ...
1000428 1000429 1000430]

        Train data shape: (833693, 21)
        Test data shape: (166738, 21)

[0]   validation_0-rmse:3.57978   validation_1-rmse:2.12986
Multiple eval metrics have been passed: 'validation_1-rmse' will be used for early stopping.

Will train until validation_1-rmse hasn't improved in 50 rounds.
[20]   validation_0-rmse:2.88225   validation_1-rmse:1.70821
[40]   validation_0-rmse:2.19516   validation_1-rmse:1.69801
[60]   validation_0-rmse:2.10887   validation_1-rmse:1.75156
Stopping. Best iteration:
[27]   validation_0-rmse:2.52086   validation_1-rmse:1.60054

        train rmse: 2.5219133595117977
        test rmse: 1.6007126246845707
        train explained variance: 0.4724258848467242
        test explained variance: 0.4682477572647844
        train r2 score: 0.47047591145719614
        test r2 score: 0.419211183135364

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Number of times a feature is used to split the data across all trees weighted by the number of
training data points that go through those splits:
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"
>

Out[111]:

<pre>array([0.9965738, 1.3020288, 0.9965738, ..., 1.198573 , 1.0163724,
       1.0381297], dtype=float32)</pre>

<h3 id="3.6---(Extra-I)-Concentrate-on-one-shop_id">3.6 - (Extra I) Concentrate on one shop_id<a

```
class="anchor-link" href="#3.6---(Extra-I)-Concentrate-on-one-shop_id">&#182;</a></h3><p>Anthoer
model to see how the model perform on specific store (shop_id).</p>
<p>we choose shop_id: 31, the highest number of items sold per store identified in the EDA.</p>
<p>As we just simply wonder how the model train on specific store, we split 2 time series for our
train and test set in this case.</p>

</div>
</div>
</div>
<div class="cell border-box-sizing code_cell rendered">
<div class="input">
<div class="prompt input_prompt">In [100]:</div>
<div class="inner_cell">
    <div class="input_area">
<div class=" highlight hl-ipython3"><pre><span></span><span class="c1"># data to be
implemented</span>
<span class="n">train_final_monthly_m_31</span> <span class="o">=</span> <span
class="n">train_final_monthly_final</span><span class="p">[</span><span
class="n">train_final_monthly_final</span><span class="o">.</span><span class="n">shop_id</span>
<span class="o">==</span> <span class="mi">31</span><span class="p">]</span>
<span class="n">train_final_monthly_m_31</span><span class="o">.</span><span class="n">tail</span>
<span class="p">()</span>

<span class="c1">># traning, testing, and reporting</span>
<span class="n">m_31</span> <span class="o">=</span> <span class="n">model_pipline</span><span
class="p">(</span><span class="n">train_final_monthly_m_31</span><span class="p">,</span> <span
class="mi">2</span><span class="p">)</span>
<span class="n">m_31</span>
</pre></div>

    </div>
</div>
</div>

<div class="output_wrapper">
<div class="output">


<div class="output_area">

    <div class="prompt"></div>


<div class="output_subarea output_stream output_stdout output_text">
<pre>TRAIN: [    0     1     2 ... 27569 27570 27571] TEST: [27572 27573 27574 ... 55140 55141 55142]

        Train data shape: (27572, 21)
        Test data shape: (27571, 21)

[0]     validation_0-rmse:6.8859        validation_1-rmse:5.45204
Multiple eval metrics have been passed: &#39;validation_1-rmse&#39; will be used for early stopping.

Will train until validation_1-rmse hasn&#39;t improved in 50 rounds.
[20]    validation_0-rmse:5.64709       validation_1-rmse:4.31027
[40]    validation_0-rmse:2.77779       validation_1-rmse:2.4106
[60]    validation_0-rmse:2.29788       validation_1-rmse:2.4732
[80]    validation_0-rmse:2.21522       validation_1-rmse:2.53807
Stopping. Best iteration:
[41]    validation_0-rmse:2.72587       validation_1-rmse:2.40396


        train rmse: 2.7259001212883547
        test rmse: 2.403978564681101
        train explained variance: 0.8356569324598871
        test explained variance: 0.7940361437875648
```

```
train r2 score: 0.8353862500219655
test r2 score: 0.7939694015328155
```

</pre>

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The average training loss reduction gained when using a feature for splitting:
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>

    Out[100]:

<pre>array([1.1284596, 1.1284596, 1.2609253, ..., 2.0152354, 1.6498634,
       1.8813661], dtype=float32)</pre>

<h5 id="Findings-&-Future-Suggestions:">Findings & Future Suggestions:<a class="anchor-link"
href="#Findings-&-Future-Suggestions:">¶</a></h5> If we only train the model on one shop
(here we select the shop_id 31 based on our EDA suggestions, which is the store that sells the most
item per month), our overall train and test accuracy improve significantly (from highest of ~68% to
~84%).
This results could suggest a better way to train the model, such that we train on each shop_id
rather than the entire train data. This could help us improve the predictions of the individual items
sold at store levels in our future study. Moreover, the computation can be less burdan if we do not
train on entire dataset.

<h3 id="3.7---(Extra-II)-Concentrate-on-using-lag_1-information">3.7 - (Extra II) Concentrate on
using lag_1 information<a class="anchor-link" href="#3.7---(Extra-II)-Concentrate-on-using-lag_1-
information">¶</a></h3> lag_1 means test month item sold = prior month item solds.
Anthoer model to see how the model perform, using the lag_1 time series information. The test set
will set to be a lag 1 infomration.
Again, as we just simply wonder how the model train on specific store, for example, we split 2
time series for our train and test set in this section.

In [67]:

```
<div class="inner_cell">
    <div class="input_area">
<div class=" highlight hl-ipython3"><pre><span></span><span class="c1"># create data to be
implemented</span>
<span class="n">train_final_monthly_m_lag1</span> <span class="o">=</span> <span
class="n">train_final_monthly_final</span><span class="o">.</span><span class="n">copy</span><span
class="p">()</span>

<span class="c1"># shift -1 meaning X_t-1, so later when we fit the model, the outcome is Y_t
already(next month)</span>
<span class="n">train_final_monthly_m_lag1</span><span class="p">[</span><span
class="s1">&#39;item_cnt_month_lag1&#39;</span><span class="p">]</span> <span class="o">=</span>
<span class="n">train_final_monthly_m_lag1</span> \
                                            <span class="o">.</span><span
class="n">sort_values</span><span class="p">(</span><span class="s1">&#39;date_block_num&#39;</span>
<span class="p">)</span> \
                                            <span class="o">.</span><span class="n">groupby</span>
<span class="p">([</span><span class="s1">&#39;shop_id&#39;</span><span class="p">,</span> <span
class="s1">&#39;item_id&#39;</span><span class="p">])[</span><span
class="s1">&#39;item_cnt_month&#39;</span><span class="p">]</span> \
                                            <span class="o">.</span><span class="n">shift</span><span
class="p">(</span><span class="o">-</span><span class="mi">1</span><span class="p">)</span>
<span class="c1"># fill nan with 0</span>
<span class="n">train_final_monthly_m_lag1</span><span class="p">[</span><span
class="s1">&#39;item_cnt_month_lag1&#39;</span><span class="p">]</span><span class="o">.</span><span
class="n">fillna</span><span class="p">(</span><span class="mi">0</span><span class="p">,</span>
<span class="n">inplace</span><span class="o">=</span><span class="kc">True</span><span class="p">)
</span>

<span class="c1"># traning, testing, and reporting</span>
<span class="n">m_lag_1</span> <span class="o">=</span> <span class="n">model_pipline</span><span
class="p">(</span><span class="n">train_final_monthly_m_lag1</span><span class="p">,</span> <span
class="mi">2</span><span class="p">)</span>
<span class="n">m_lag_1</span>
</pre></div>

    </div>
</div>
</div>

<div class="output_wrapper">
<div class="output">


<div class="output_area">

    <div class="prompt"></div>


<div class="output_subarea output_stream output_stdout output_text">
<pre>TRAIN: [     0      1      2 ... 333474 333475 333476] TEST: [333477 333478 333479 ... 666951
666952 666953]

        Train data shape: (333477, 22)
        Test data shape: (333477, 22)

[0]     validation_0-rmse:4.09504       validation_1-rmse:3.38127
Multiple eval metrics have been passed: &#39;validation_1-rmse&#39; will be used for early stopping.

Will train until validation_1-rmse hasn&#39;t improved in 50 rounds.
[20]    validation_0-rmse:3.23743       validation_1-rmse:2.65599
[40]    validation_0-rmse:2.23287       validation_1-rmse:2.0302
[60]    validation_0-rmse:2.09255       validation_1-rmse:1.99899
[80]    validation_0-rmse:2.05423       validation_1-rmse:1.99792
[100]   validation_0-rmse:2.02117       validation_1-rmse:2.00089
```

```
[120]   validation_0-rmse:1.99731       validation_1-rmse:2.00064
Stopping. Best iteration:
[84]    validation_0-rmse:2.04765       validation_1-rmse:1.99522


        train rmse: 2.048348924759086
        test rmse: 1.9957279582702154
        train explained variance: 0.731254653228861
        test explained variance: 0.6221967464575497
        train r2 score: 0.7312491923225783
        test r2 score: 0.6221403549104402


</pre>
</div>
</div>

<div class="output_area">

    <div class="prompt"></div>




<div class="output_png output_subarea ">
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Number of times a feature is used to split the data across all trees weighted by the number of
training data points that go through those splits:
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>

<pre>TRAIN: [0   1   2 ... 666951 666952 666953] TEST: [666954 666955 666956 ...
1000428 1000429 1000430]

        Train data shape: (666954, 22)
        Test data shape: (333477, 22)

[0]   validation_0-rmse:3.74325   validation_1-rmse:2.52522
Multiple eval metrics have been passed: 'validation_1-rmse' will be used for early stopping.

Will train until validation_1-rmse hasn't improved in 50 rounds.
[20]   validation_0-rmse:2.96877   validation_1-rmse:2.01278
[40]   validation_0-rmse:2.12819   validation_1-rmse:1.77531
[60]   validation_0-rmse:2.03261   validation_1-rmse:1.77314
[80]   validation_0-rmse:1.99747   validation_1-rmse:1.76977
[100]   validation_0-rmse:1.97791   validation_1-rmse:1.76432
[120]   validation_0-rmse:1.96181   validation_1-rmse:1.76747
[140]   validation_0-rmse:1.94639   validation_1-rmse:1.76821
[160]   validation_0-rmse:1.92809   validation_1-rmse:1.76838
Stopping. Best iteration:
[110]   validation_0-rmse:1.97117   validation_1-rmse:1.76151

        train rmse: 1.972690443719745
        test rmse: 1.7617181562989155
        train explained variance: 0.7025555037639085
        test explained variance: 0.49025536466340536
        train r2 score: 0.7025526559235952
        test r2 score: 0.48885065708896047

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wsDMHBwa4W1WlkZWUhKSkJV69eRVZWFnJzc0FSLZPAwECEhYWhbt26rhbVaQi9ycrKUsvE29sbRqMRfn5+NVpvcnJykJWVJfVG6o0
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cS+GFwtgEQikUgkEolEIpFIJBKJxLnIgJBEIpFIJBKJRCKRSCQSSQ1DBoQkEolEIpFIJBKJRCKRSGoYMiAkkUgkEolEIpFIJBKJRF
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iUQikUgkEolEIpFIJJIahgwISSQSiUQikUgkEolEIpHUMGRASCKRSCQSiUQikUgkEomkhiEDQhKJRCKRSCQSiUQikUgkNQwZEJJIJ
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"
>

<h5 id="Findings-&-Suggestions:">Findings & Suggestions:<a class="anchor-link" href="#Findings-&-Suggestions:">¶</a></h5> As a result, we noticed lag 1 information indeed influence the outputs. There exists autoregressive term in our time series data and affect the model outputs. A suggestion to improve our model is to test the differnet lag and add self-explanatory variable as one of our model features. Perhaps also to look at auto correlation function or partial auto correlation function to chosse the autoregressive process. This practice could be extented in our future study.

<h1 id="4---Optimzation">4 - Optimzation<a class="anchor-link" href="#4---Optimzation">¶</a>
</h1><h3 id="Fine-tuned-the-hyper-parameters-(gridsearch)------------------">Fine-tuned the hyper-parameters (gridsearch) ------------------<a class="anchor-link" href="#Fine-tuned-the-hyper-parameters-(gridsearch)------------------">¶</a></h3> In our study, we select smaller dataset to run gridsearch. The re-sampling process is debatable and we ended up extracting samples based on our EDA that we focus on the store where they sells the most items.

helper function

In [58]:

<pre>def optimization(param_test, X_train, y_train):
    '''run GridSearchCV to identify optimal parameters

    Args:
        param_test(dictionary): a dictionary contains the targeting parameters to be optimized.
        X_train(array): the input modleing train data.
        y_train(array): the output modeling train variable.

    Return:
        optimal_param(dictionary): an ouput dictionary with the optimal parameters identified from GridSearchCV.
    '''

    ># initial our raw baseline model
    gsearch = GridSearchCV(estimator = XGBRegressor(objective='reg:tweedie',
                        max_depth=8,
                        gamma=0.3,
                        n_estimators=500,

```
                            <span class="n">min_child_weight</span><span class="o">=</span><span
class="mi">1000</span><span class="p">,</span>
                            <span class="n">colsample_bytree</span><span class="o">=</span><span
class="mf">0.8</span><span class="p">,</span>
                            <span class="n">subsample</span><span class="o">=</span><span
class="mf">0.8</span><span class="p">,</span>
                            <span class="n">eta</span><span class="o">=</span><span
class="mf">0.3</span><span class="p">,</span>
                            <span class="n">seed</span><span class="o">=</span><span class="mi">0</span>
<span class="p">),</span>
                            <span class="n">param_grid</span> <span class="o">=</span> <span
class="n">param_test</span><span class="p">,</span> <span class="n">scoring</span><span class="o">=
</span><span class="s1">&#39;r2&#39;</span><span class="p">,</span><span class="n">n_jobs</span><span
class="o">=</span><span class="mi">4</span><span class="p">,</span><span class="n">iid</span><span
class="o">=</span><span class="kc">False</span><span class="p">)</span>

    <span class="c1"># fit gridsearch</span>
    <span class="n">gsearch</span><span class="o">.</span><span class="n">fit</span><span class="p">
(</span><span class="n">X_train</span><span class="p">,</span> <span class="n">y_train</span><span
class="p">)</span>

    <span class="c1"># obtain the best paramter</span>
    <span class="n">optimal_param</span> <span class="o">=</span> <span class="n">gsearch</span><span
class="o">.</span><span class="n">best_params_</span>

    <span class="k">return</span> <span class="n">optimal_param</span>
</pre></div>

    </div>
</div>
</div>

</div>
<div class="cell border-box-sizing text_cell rendered"><div class="prompt input_prompt">
</div><div class="inner_cell">
<div class="text_cell_render border-box-sizing rendered_html">
<h3 id="4.1---smaller-dataset/-re-samping">4.1 - smaller dataset/ re-samping<a class="anchor-link"
href="#4.1---smaller-dataset/-re-samping">&#182;</a></h3><p>Run gridserach on entire dataset is
computationally expensive.</p>
<p>We use 2015 data as a representative with shop filtering by 31 and 25 for our optimization
purposes.</p>

</div>
</div>
</div>
<div class="cell border-box-sizing code_cell rendered">
<div class="input">
<div class="prompt input_prompt">In [49]:</div>
<div class="inner_cell">
    <div class="input_area">
<div class=" highlight hl-ipython3"><pre><span></span><span class="c1"># filter the data</span>
<span class="n">train_monthly_optimization</span> <span class="o">=</span> <span
class="n">train_final_monthly_final</span><span class="p">[(</span><span
class="n">train_final_monthly_final</span><span class="p">[</span><span class="s1">&#39;year&#39;
</span><span class="p">]</span><span class="o">==</span><span class="mi">2015</span><span class="p">)
</span><span class="o">&amp;</span><span class="p">((</span><span
class="n">train_final_monthly_final</span><span class="p">[</span><span class="s1">&#39;shop_id&#39;
</span><span class="p">]</span><span class="o">==</span><span class="mi">31</span><span class="p">)
</span><span class="o">|</span>
                                                <span class="p">(</span><span
class="n">train_final_monthly_final</span><span class="p">[</span><span class="s1">&#39;shop_id&#39;
</span><span class="p">]</span><span class="o">==</span><span class="mi">25</span><span class="p">))]
</span>

<span class="nb">print</span><span class="p">(</span><span class="s1">&#39;optimzation dataset: &#39;
```

```
</span><span class="p">,</span> <span class="n">train_monthly_optimization</span><span class="o">.
</span><span class="n">shape</span><span class="p">)</span>
<span class="n">train_monthly_optimization</span><span class="o">.</span><span class="n">head</span>
<span class="p">()</span>
</pre></div>

    </div>
</div>
</div>

<div class="output_wrapper">
<div class="output">


<div class="output_area">

    <div class="prompt"></div>


<div class="output_subarea output_stream output_stdout output_text">
<pre>optimzation dataset:  (59258, 25)
</pre>
</div>
</div>

<div class="output_area">

    <div class="prompt output_prompt">Out[49]:</div>



<div class="output_html rendered_html output_subarea output_execute_result">
<div>
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    .dataframe tbody tr th:only-of-type {
        vertical-align: middle;
    }

    .dataframe tbody tr th {
        vertical-align: top;
    }

    .dataframe thead th {
        text-align: right;
    }
</style>
<table border="1" class="dataframe">
  <thead>
    <tr style="text-align: right;">
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      <th>date_block_num</th>
      <th>shop_id</th>
      <th>item_id</th>
      <th>item_category_id</th>
      <th>DayofWeek</th>
      <th>city</th>
      <th>cat</th>
      <th>item_price_monthly</th>
      <th>mean_item_price_monthly</th>
      <th>max_item_price_monthly</th>
      <th>...</th>
      <th>revenue_monthly</th>
      <th>mean_revenue_monthly</th>
      <th>year</th>
      <th>month</th>
```

```
      <th>item_cnt_month</th>
      <th>item_cnt_week</th>
      <th>item_cnt_qtr_min</th>
      <th>item_cnt_qtr_max</th>
      <th>item_cnt_qtr_mean</th>
      <th>item_cnt_qtr_vols</th>
    </tr>
  </thead>
  <tbody>
    <tr>
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      <td>25</td>
      <td>30</td>
      <td>40</td>
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      <td>0</td>
      <td>1</td>
      <td>169.00</td>
      <td>169.00</td>
      <td>169.00</td>
      <td>...</td>
      <td>169.00</td>
      <td>169.00</td>
      <td>2015</td>
      <td>0</td>
      <td>2.0</td>
      <td>1.0</td>
      <td>1.0</td>
      <td>2.0</td>
      <td>1.666667</td>
      <td>5.773503e-01</td>
    </tr>
    <tr>
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      <td>25</td>
      <td>30</td>
      <td>40</td>
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      <td>0</td>
      <td>1</td>
      <td>338.00</td>
      <td>169.00</td>
      <td>169.00</td>
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      <td>2015</td>
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      <td>2.0</td>
      <td>2.0</td>
      <td>1.0</td>
      <td>2.0</td>
      <td>1.666667</td>
      <td>5.773503e-01</td>
    </tr>
    <tr>
      <th>633922</th>
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      <td>25</td>
      <td>31</td>
      <td>37</td>
      <td>0</td>
      <td>0</td>
```

```
      <td>1</td>
      <td>356.48</td>
      <td>356.48</td>
      <td>356.48</td>
      <td>...</td>
      <td>356.48</td>
      <td>356.48</td>
      <td>2015</td>
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      <td>1.0</td>
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    <tr>
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      <td>0</td>
      <td>1</td>
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      <td>499.00</td>
      <td>499.00</td>
      <td>...</td>
      <td>499.00</td>
      <td>499.00</td>
      <td>2015</td>
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      <td>1.0</td>
      <td>1.0</td>
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      <td>1.333333</td>
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    <tr>
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      <td>2.0</td>
      <td>1.0</td>
      <td>1.0</td>
      <td>1.0</td>
      <td>1.000000</td>
      <td>8.878391e-08</td>
    </tr>
  </tbody>
```

```
</table>
<p>5 rows × 25 columns</p>
</div>
</div>

</div>

</div>
</div>

</div>
<div class="cell border-box-sizing text_cell rendered"><div class="prompt input_prompt">
</div><div class="inner_cell">
<div class="text_cell_render border-box-sizing rendered_html">
<h3 id="4.2---Splitting-data-and-seperately-obtain-the-model's-inputs">4.2 - Splitting data and
seperately obtain the model's inputs<a class="anchor-link" href="#4.2---Splitting-data-and-
seperately-obtain-the-model's-inputs">&#182;</a></h3><p>For simplicity purposes, we just want to
check one time series for optimzation purposes.</p>

</div>
</div>
</div>
<div class="cell border-box-sizing code_cell rendered">
<div class="input">
<div class="prompt input_prompt">In [50]:</div>
<div class="inner_cell">
    <div class="input_area">
<div class=" highlight hl-ipython3"><pre><span></span><span class="sd">&quot;&quot;&quot;(0) - Setup
time series spliting for train and test set</span>
<span class="sd">&quot;&quot;&quot;</span>
<span class="n">tscv</span> <span class="o">=</span> <span class="n">TimeSeriesSplit</span><span
class="p">(</span><span class="n">n_splits</span><span class="o">=</span><span class="mi">2</span>
<span class="p">)</span>
<span class="n">X</span> <span class="o">=</span> <span class="n">train_monthly_optimization</span>
<span class="o">.</span><span class="n">drop</span><span class="p">([</span><span
class="s1">&#39;item_cnt_month&#39;</span><span class="p">],</span> <span class="n">axis</span> <span
class="o">=</span><span class="mi">1</span><span class="p">)</span>
<span class="n">Y</span> <span class="o">=</span> <span class="n">train_monthly_optimization</span>
<span class="p">[</span><span class="s1">&#39;item_cnt_month&#39;</span><span class="p">]</span>
<span class="n">TimeSeriesSplit</span><span class="p">(</span><span class="n">max_train_size</span>
<span class="o">=</span><span class="kc">None</span><span class="p">,</span> <span
class="n">n_splits</span><span class="o">=</span><span class="mi">2</span><span class="p">)</span>

<span class="k">for</span> <span class="n">train_index</span><span class="p">,</span> <span
class="n">test_index</span> <span class="ow">in</span> <span class="n">tscv</span><span class="o">.
</span><span class="n">split</span><span class="p">(</span><span
class="n">train_monthly_optimization</span><span class="p">):</span>

    <span class="sd">&quot;&quot;&quot; (1) - Split train and dev set &quot;&quot;&quot;</span>
    <span class="nb">print</span><span class="p">(</span><span class="s2">&quot;TRAIN:&quot;</span>
<span class="p">,</span> <span class="n">train_index</span><span class="p">,</span> <span
class="s2">&quot;TEST:&quot;</span><span class="p">,</span> <span class="n">test_index</span><span
class="p">)</span>
    <span class="n">X_train</span><span class="p">,</span> <span class="n">X_test</span> <span
class="o">=</span> <span class="n">X</span><span class="o">.</span><span class="n">iloc</span><span
class="p">[</span><span class="n">train_index</span><span class="p">],</span> <span
class="n">X</span><span class="o">.</span><span class="n">iloc</span><span class="p">[</span><span
class="n">test_index</span><span class="p">]</span>
    <span class="n">y_train</span><span class="p">,</span> <span class="n">y_test</span> <span
class="o">=</span> <span class="n">Y</span><span class="o">.</span><span class="n">iloc</span><span
class="p">[</span><span class="n">train_index</span><span class="p">],</span> <span
class="n">Y</span><span class="o">.</span><span class="n">iloc</span><span class="p">[</span><span
class="n">test_index</span><span class="p">]</span>

    <span class="c1"># drop features that are not meaningful</span>
```

```
    <span class="n">X_train</span> <span class="o">=</span> <span class="n">X_train</span><span
class="o">.</span><span class="n">drop</span><span class="p">(</span><span class="n">columns</span>
<span class="o">=</span><span class="p">[</span><span class="s1">&#39;shop_id&#39;</span><span
class="p">,</span> <span class="s1">&#39;item_id&#39;</span><span class="p">,</span> <span
class="s1">&#39;item_category_id&#39;</span><span class="p">])</span>
    <span class="n">X_test</span> <span class="o">=</span> <span class="n">X_test</span><span
class="o">.</span><span class="n">drop</span><span class="p">(</span><span class="n">columns</span>
<span class="o">=</span><span class="p">[</span><span class="s1">&#39;shop_id&#39;</span><span
class="p">,</span> <span class="s1">&#39;item_id&#39;</span><span class="p">,</span> <span
class="s1">&#39;item_category_id&#39;</span><span class="p">])</span>


    <span class="sd">&quot;&quot;&quot;(2) - Normalize the train and test set (with the help of the
above helper function) &quot;&quot;&quot;</span>
    <span class="n">X_train_normal</span> <span class="o">=</span> <span
class="n">normalization</span><span class="p">(</span><span class="n">X_train</span><span class="p">,
</span> <span class="n">scaler</span><span class="o">=</span><span class="n">MinMaxScaler</span><span
class="p">)</span>
    <span class="n">X_test_normal</span> <span class="o">=</span> <span
class="n">normalization</span><span class="p">(</span><span class="n">X_test</span><span class="p">,
</span> <span class="n">scaler</span><span class="o">=</span><span class="n">MinMaxScaler</span><span
class="p">)</span>


    <span class="sd">&quot;&quot;&quot;(3) - Obtain final train and test set for model implementation
&quot;&quot;&quot;</span>
    <span class="n">xgb_train</span> <span class="o">=</span> <span class="n">X_train_normal</span>
<span class="p">[</span><span class="n">X_train_normal</span><span class="o">.</span><span
class="n">columns</span><span class="p">]</span>
    <span class="n">xgb_test</span> <span class="o">=</span> <span class="n">X_test_normal</span>
<span class="p">[</span><span class="n">X_test_normal</span><span class="o">.</span><span
class="n">columns</span><span class="p">]</span>
    <span class="nb">print</span><span class="p">(</span><span class="n">f</span><span
class="s2">&quot;&quot;&quot;</span>
<span class="s2">    Train data shape: </span><span class="si">{xgb_train.shape}</span><span
class="s2">  </span>
<span class="s2">    Test data shape: </span><span class="si">{xgb_test.shape}</span><span
class="s2"></span>
<span class="s2">    &quot;&quot;&quot;</span><span class="p">)</span>

</pre></div>

    </div>
</div>
</div>

<div class="output_wrapper">
<div class="output">


<div class="output_area">

    <div class="prompt"></div>


<div class="output_subarea output_stream output_stdout output_text">
<pre>TRAIN: [    0     1     2 ... 19751 19752 19753] TEST: [19754 19755 19756 ... 39503 39504 39505]

    Train data shape: (19754, 21)
    Test data shape: (19752, 21)

TRAIN: [    0     1     2 ... 39503 39504 39505] TEST: [39506 39507 39508 ... 59255 59256 59257]

    Train data shape: (39506, 21)
    Test data shape: (19752, 21)
```

```
</pre>
</div>
</div>

</div>
</div>

</div>
<div class="cell border-box-sizing text_cell rendered"><div class="prompt input_prompt">
</div><div class="inner_cell">
<div class="text_cell_render border-box-sizing rendered_html">
<h3 id="4.3---Optimzation-and-grid-search-hyper-parameters">4.3 - Optimzation and grid search hyper
parameters<a class="anchor-link" href="#4.3---Optimzation-and-grid-search-hyper-parameters">&#182;
</a></h3><p>Since running grid search is computationally expensive, here we seperate each parameter
and test it.</p>

</div>
</div>
</div>
<div class="cell border-box-sizing code_cell rendered">
<div class="input">
<div class="prompt input_prompt">In [53]:</div>
<div class="inner_cell">
    <div class="input_area">
<div class=" highlight hl-ipython3"><pre><span></span><span class="c1"># max_depth</span>

<span class="n">param_test</span><span class="o">=</span> <span class="p">{</span>
    <span class="s1">&#39;max_depth&#39;</span><span class="p">:</span><span class="nb">range</span>
<span class="p">(</span><span class="mi">4</span><span class="p">,</span><span class="mi">10</span>
<span class="p">,</span><span class="mi">2</span><span class="p">)</span>
<span class="p">}</span>

<span class="n">optimal_params</span> <span class="o">=</span> <span class="n">optimization</span>
<span class="p">(</span><span class="n">param_test</span><span class="p">,</span> <span
class="n">xgb_train</span><span class="p">,</span> <span class="n">y_train</span><span class="p">)
</span>

<span class="nb">print</span><span class="p">(</span><span class="s1">&#39;best max_depth:&#39;
</span><span class="p">,</span> <span class="n">optimal_params</span><span class="p">)</span>
</pre></div>

    </div>
</div>
</div>

<div class="output_wrapper">
<div class="output">


<div class="output_area">

    <div class="prompt"></div>


<div class="output_subarea output_stream output_stdout output_text">
<pre>best max_depth: {&#39;max_depth&#39;: 4}
</pre>
</div>
</div>

</div>
</div>

</div>
```

```
<div class="cell border-box-sizing code_cell rendered">
<div class="input">
<div class="prompt input_prompt">In [54]:</div>
<div class="inner_cell">
    <div class="input_area">
<div class=" highlight hl-ipython3"><pre><span></span><span class="c1"># gamma</span>

<span class="n">param_test</span><span class="o">=</span> <span class="p">{</span>
    <span class="s1">&#39;gamma&#39;</span><span class="p">:[</span><span class="n">i</span><span
class="o">/</span><span class="mf">10.0</span> <span class="k">for</span> <span class="n">i</span>
<span class="ow">in</span> <span class="nb">range</span><span class="p">(</span><span
class="mi">0</span><span class="p">,</span><span class="mi">5</span><span class="p">)]</span>
<span class="p">}</span>

<span class="n">optimal_params</span> <span class="o">=</span> <span class="n">optimization</span>
<span class="p">(</span><span class="n">param_test</span><span class="p">,</span> <span
class="n">xgb_train</span><span class="p">,</span> <span class="n">y_train</span><span class="p">)
</span>

<span class="nb">print</span><span class="p">(</span><span class="s1">&#39;best gamma:&#39;</span>
<span class="p">,</span> <span class="n">optimal_params</span><span class="p">)</span>
</pre></div>

    </div>
</div>
</div>

<div class="output_wrapper">
<div class="output">


<div class="output_area">

    <div class="prompt"></div>


<div class="output_subarea output_stream output_stdout output_text">
<pre>best gamma: {&#39;gamma&#39;: 0.3}
</pre>
</div>
</div>

</div>
</div>

</div>
<div class="cell border-box-sizing code_cell rendered">
<div class="input">
<div class="prompt input_prompt">In [55]:</div>
<div class="inner_cell">
    <div class="input_area">
<div class=" highlight hl-ipython3"><pre><span></span><span class="c1"># min_child_weight</span>

<span class="n">param_test</span><span class="o">=</span> <span class="p">{</span>
    <span class="s1">&#39;min_child_weight&#39;</span><span class="p">:[</span><span
class="n">i</span> <span class="k">for</span> <span class="n">i</span> <span class="ow">in</span>
<span class="nb">range</span><span class="p">(</span><span class="mi">1</span><span class="p">,
</span><span class="mi">100</span><span class="p">,</span><span class="mi">10</span><span
class="p">)]</span>
<span class="p">}</span>

<span class="n">optimal_params</span> <span class="o">=</span> <span class="n">optimization</span>
<span class="p">(</span><span class="n">param_test</span><span class="p">,</span> <span
class="n">xgb_train</span><span class="p">,</span> <span class="n">y_train</span><span class="p">)
</span>
```

```
<span class="nb">print</span><span class="p">(</span><span class="s1">&#39;best
min_child_weight:&#39;</span><span class="p">,</span> <span class="n">optimal_params</span><span
class="p">)</span>
</pre></div>

    </div>
</div>
</div>

<div class="output_wrapper">
<div class="output">


<div class="output_area">

    <div class="prompt"></div>


<div class="output_subarea output_stream output_stdout output_text">
<pre>best min_child_weight: {&#39;min_child_weight&#39;: 41}
</pre>
</div>
</div>

</div>
</div>

</div>
<div class="cell border-box-sizing code_cell rendered">
<div class="input">
<div class="prompt input_prompt">In [57]:</div>
<div class="inner_cell">
    <div class="input_area">
<div class=" highlight hl-ipython3"><pre><span></span><span class="c1"># eta</span>

<span class="n">param_test</span><span class="o">=</span> <span class="p">{</span>
    <span class="s1">&#39;eta&#39;</span><span class="p">:[</span><span class="n">i</span><span
class="o">/</span><span class="mf">10.0</span> <span class="k">for</span> <span class="n">i</span>
<span class="ow">in</span> <span class="nb">range</span><span class="p">(</span><span
class="mi">1</span><span class="p">,</span><span class="mi">5</span><span class="p">)]</span>
<span class="p">}</span>

<span class="n">optimal_params</span> <span class="o">=</span> <span class="n">optimization</span>
<span class="p">(</span><span class="n">param_test</span><span class="p">,</span> <span
class="n">xgb_train</span><span class="p">,</span> <span class="n">y_train</span><span class="p">)
</span>

<span class="nb">print</span><span class="p">(</span><span class="s1">&#39;best eta:&#39;</span><span
class="p">,</span> <span class="n">optimal_params</span><span class="p">)</span>
</pre></div>

    </div>
</div>
</div>

<div class="output_wrapper">
<div class="output">


<div class="output_area">

    <div class="prompt"></div>
```

```
<div class="output_subarea output_stream output_stdout output_text">
<pre>best eta: {&#39;eta&#39;: 0.1}
</pre>
</div>
</div>

</div>
</div>

</div>
<div class="cell border-box-sizing code_cell rendered">
<div class="input">
<div class="prompt input_prompt">In [59]:</div>
<div class="inner_cell">
    <div class="input_area">
<div class=" highlight hl-ipython3"><pre><span></span><span class="c1"># subsample</span>

<span class="n">param_test</span><span class="o">=</span> <span class="p">{</span>
    <span class="s1">&#39;subsample&#39;</span><span class="p">:[</span><span class="n">i</span><span
class="o">/</span><span class="mf">10.0</span> <span class="k">for</span> <span class="n">i</span>
<span class="ow">in</span> <span class="nb">range</span><span class="p">(</span><span
class="mi">6</span><span class="p">,</span><span class="mi">10</span><span class="p">)]</span>
<span class="p">}</span>

<span class="n">optimal_params</span> <span class="o">=</span> <span class="n">optimization</span>
<span class="p">(</span><span class="n">param_test</span><span class="p">,</span> <span
class="n">xgb_train</span><span class="p">,</span> <span class="n">y_train</span><span class="p">)
</span>

<span class="nb">print</span><span class="p">(</span><span class="s1">&#39;best subsample:&#39;
</span><span class="p">,</span> <span class="n">optimal_params</span><span class="p">)</span>
</pre></div>

    </div>
</div>
</div>

<div class="output_wrapper">
<div class="output">


<div class="output_area">

    <div class="prompt"></div>


<div class="output_subarea output_stream output_stdout output_text">
<pre>best subsample: {&#39;subsample&#39;: 0.9}
</pre>
</div>
</div>

</div>
</div>

</div>
<div class="cell border-box-sizing code_cell rendered">
<div class="input">
<div class="prompt input_prompt">In [60]:</div>
<div class="inner_cell">
    <div class="input_area">
<div class=" highlight hl-ipython3"><pre><span></span><span class="c1">># colsample_bytree</span>

<span class="n">param_test</span><span class="o">=</span> <span class="p">{</span>
    <span class="s1">&#39;colsample_bytree&#39;</span><span class="p">:[</span><span
```

```
class="n">i</span><span class="o">/</span><span class="mf">10.0</span> <span class="k">for</span>
<span class="n">i</span> <span class="ow">in</span> <span class="nb">range</span><span class="p">
(</span><span class="mi">6</span><span class="p">,</span><span class="mi">10</span><span class="p">)]
</span>
<span class="p">}</span>

<span class="n">optimal_params</span> <span class="o">=</span> <span class="n">optimization</span>
<span class="p">(</span><span class="n">param_test</span><span class="p">,</span> <span
class="n">xgb_train</span><span class="p">,</span> <span class="n">y_train</span><span class="p">)
</span>

<span class="nb">print</span><span class="p">(</span><span class="s1">&#39;best
colsample_bytree:&#39;</span><span class="p">,</span> <span class="n">optimal_params</span><span
class="p">)</span>
</pre></div>

    </div>
</div>
</div>

<div class="output_wrapper">
<div class="output">


<div class="output_area">

    <div class="prompt"></div>


<div class="output_subarea output_stream output_stdout output_text">
<pre>best colsample_bytree: {&#39;colsample_bytree&#39;: 0.8}
</pre>
</div>
</div>

</div>
</div>

</div>
<div class="cell border-box-sizing code_cell rendered">
<div class="input">
<div class="prompt input_prompt">In [63]:</div>
<div class="inner_cell">
    <div class="input_area">
<div class=" highlight hl-ipython3"><pre><span></span><span class="c1"># n_estimators</span>

<span class="n">param_test</span><span class="o">=</span> <span class="p">{</span>
    <span class="s1">&#39;n_estimators&#39;</span><span class="p">:[</span><span class="mi">50</span>
<span class="p">,</span> <span class="mi">100</span><span class="p">,</span> <span
class="mi">200</span><span class="p">,</span> <span class="mi">300</span><span class="p">,</span>
<span class="mi">400</span><span class="p">,</span> <span class="mi">500</span><span class="p">,
</span> <span class="mi">600</span><span class="p">]</span>
<span class="p">}</span>

<span class="n">optimal_params</span> <span class="o">=</span> <span class="n">optimization</span>
<span class="p">(</span><span class="n">param_test</span><span class="p">,</span> <span
class="n">xgb_train</span><span class="p">,</span> <span class="n">y_train</span><span class="p">)
</span>

<span class="nb">print</span><span class="p">(</span><span class="s1">&#39;best n_estimators:&#39;
</span><span class="p">,</span> <span class="n">optimal_params</span><span class="p">)</span>
</pre></div>

    </div>
</div>
```

```
</div>

<div class="output_wrapper">
<div class="output">


<div class="output_area">

    <div class="prompt"></div>


<div class="output_subarea output_stream output_stdout output_text">
<pre>best n_estimators: {&#39;n_estimators&#39;: 400}
</pre>
</div>
</div>

</div>
</div>

</div>
<div class="cell border-box-sizing text_cell rendered"><div class="prompt input_prompt">
</div><div class="inner_cell">
<div class="text_cell_render border-box-sizing rendered_html">
<p><strong>From the results by gridsearch, we've re-run and incorpated our baseline model in section
3, where we've achieved slightly higher accuracy compared to the orignial baseline.</strong></p>

</div>
</div>
</div>
<div class="cell border-box-sizing text_cell rendered"><div class="prompt input_prompt">
</div><div class="inner_cell">
<div class="text_cell_render border-box-sizing rendered_html">
<h1 id="5---Predictions-Outputs-(item_cnt_month)">5 - Predictions Outputs (item_cnt_month)<a
class="anchor-link" href="#5---Predictions-Outputs-(item_cnt_month)">&#182;</a></h1><p>1 - Finally,
we print out the predictions files -- item_cnt_month.</p>
<p>2 - Prediction of the next month product solds for each ID (shop_id and item_id).**</p>
<p>3 - Noted that the final outputs should be a possion process,
in order to inline with what we expect,
we round the outputs to be integer (number of items sold).</p>

</div>
</div>
</div>
<div class="cell border-box-sizing code_cell rendered">
<div class="input">
<div class="prompt input_prompt">In [129]:</div>
<div class="inner_cell">
    <div class="input_area">
<div class=" highlight hl-ipython3"><pre><span></span><span class="c1"># create a data frame with a
tuple &#39;ID&#39;</span>
<span class="n">prediction_monthly</span> <span class="o">=</span> <span class="n">pd</span><span
class="o">.</span><span class="n">DataFrame</span><span class="p">(</span><span
class="n">test_data</span><span class="p">[</span><span class="s1">&#39;ID&#39;</span><span
class="p">],</span> <span class="n">columns</span><span class="o">=</span><span class="p">[</span>
<span class="s1">&#39;ID&#39;</span><span class="p">])</span>

<span class="c1">># fill in the predictions and convert them from float to int (poisson dist)</span>
<span class="n">prediction_monthly</span><span class="p">[</span><span
class="s1">&#39;item_cnt_month&#39;</span><span class="p">]</span> <span class="o">=</span> <span
class="n">pd</span><span class="o">.</span><span class="n">Series</span><span class="p">(</span><span
class="n">m</span><span class="p">)</span>
<span class="n">prediction_monthly</span><span class="p">[</span><span
class="s1">&#39;item_cnt_month&#39;</span><span class="p">]</span> <span class="o">=</span> <span
class="n">pd</span><span class="o">.</span><span class="n">Series</span><span class="p">(</span><span
```

class="n">m).apply(lambda x:np.ceil(x))

fill nan as 0 itmes sold
prediction_monthly['item_cnt_month'].fillna(0,inplace=True)

># take a quick look at the predictions
prediction_monthly.head(10)
</pre>

Out[129]:

<style scoped>
.dataframe tbody tr th:only-of-type {
vertical-align: middle;
}

.dataframe tbody tr th {
vertical-align: top;
}

.dataframe thead th {
text-align: right;
}
</style>
<table border="1" class="dataframe">
<thead>
<tr style="text-align: right;">
<th></th>
<th>ID</th>
<th>item_cnt_month</th>
</tr>
</thead>
<tbody>
<tr>
<th>0</th>
<td>0</td>
<td>1.0</td>
</tr>
<tr>
<th>1</th>
<td>1</td>
<td>2.0</td>
</tr>

```
      <tr>
        <th>2</th>
        <td>2</td>
        <td>1.0</td>
      </tr>
      <tr>
        <th>3</th>
        <td>3</td>
        <td>2.0</td>
      </tr>
      <tr>
        <th>4</th>
        <td>4</td>
        <td>1.0</td>
      </tr>
      <tr>
        <th>5</th>
        <td>5</td>
        <td>1.0</td>
      </tr>
      <tr>
        <th>6</th>
        <td>6</td>
        <td>1.0</td>
      </tr>
      <tr>
        <th>7</th>
        <td>7</td>
        <td>1.0</td>
      </tr>
      <tr>
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      </tr>
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        <td>9</td>
        <td>1.0</td>
      </tr>
    </tbody>
  </table>
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  </div>

  </div>

  </div>
  </div>

  </div>
  <div class="cell border-box-sizing text_cell rendered"><div class="prompt input_prompt">
  </div><div class="inner_cell">
  <div class="text_cell_render border-box-sizing rendered_html">
  <p><strong>Let's have a look at the summry stats for predictions.</strong></p>

  </div>
  </div>
  </div>
  <div class="cell border-box-sizing code_cell rendered">
  <div class="input">
  <div class="prompt input_prompt">In [130]:</div>
  <div class="inner_cell">
      <div class="input_area">
  <div class=" highlight hl-ipython3"><pre><span></span><span class="n">prediction_monthly</span><span
```

```
class="o">.</span><span class="n">describe</span><span class="p">()</span>
</pre></div>

    </div>
</div>
</div>

<div class="output_wrapper">
<div class="output">


<div class="output_area">

    <div class="prompt output_prompt">Out[130]:</div>



<div class="output_html rendered_html output_subarea output_execute_result">
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        vertical-align: middle;
    }

    .dataframe tbody tr th {
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    }

    .dataframe thead th {
        text-align: right;
    }
</style>
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      <th>ID</th>
      <th>item_cnt_month</th>
    </tr>
  </thead>
  <tbody>
    <tr>
      <th>count</th>
      <td>214200.000000</td>
      <td>214200.000000</td>
    </tr>
    <tr>
      <th>mean</th>
      <td>107099.500000</td>
      <td>1.417941</td>
    </tr>
    <tr>
      <th>std</th>
      <td>61834.358168</td>
      <td>1.574585</td>
    </tr>
    <tr>
      <th>min</th>
      <td>0.000000</td>
      <td>0.000000</td>
    </tr>
    <tr>
      <th>25%</th>
      <td>53549.750000</td>
      <td>1.000000</td>
```

```
    </tr>
    <tr>
      <th>50%</th>
      <td>107099.500000</td>
      <td>1.000000</td>
    </tr>
    <tr>
      <th>75%</th>
      <td>160649.250000</td>
      <td>2.000000</td>
    </tr>
    <tr>
      <th>max</th>
      <td>214199.000000</td>
      <td>44.000000</td>
    </tr>
  </tbody>
</table>
</div>
</div>

</div>

</div>
</div>

</div>
<div class="cell border-box-sizing code_cell rendered">
<div class="input">
<div class="prompt input_prompt">In [131]:</div>
<div class="inner_cell">
    <div class="input_area">
<div class=" highlight hl-ipython3"><pre><span></span><span class="c1"># Print out the basic
statistics</span>
<span class="nb">print</span><span class="p">(</span><span class="s1">&#39;max prediction # of
prodcut sold per ID: &#39;</span><span class="p">,</span> <span class="n">prediction_monthly</span>
<span class="p">[</span><span class="s1">&#39;item_cnt_month&#39;</span><span class="p">]</span><span
class="o">.</span><span class="n">max</span><span class="p">())</span>
<span class="nb">print</span><span class="p">(</span><span class="s1">&#39;min prediction # of
prodcut sold per ID: &#39;</span><span class="p">,</span> <span class="n">prediction_monthly</span>
<span class="p">[</span><span class="s1">&#39;item_cnt_month&#39;</span><span class="p">]</span><span
class="o">.</span><span class="n">min</span><span class="p">())</span>
<span class="nb">print</span><span class="p">(</span><span class="s1">&#39;median prediction # of
prodcut sold per ID: &#39;</span><span class="p">,</span> <span class="n">prediction_monthly</span>
<span class="p">[</span><span class="s1">&#39;item_cnt_month&#39;</span><span class="p">]</span><span
class="o">.</span><span class="n">median</span><span class="p">())</span>
<span class="nb">print</span><span class="p">(</span><span class="s1">&#39;mean prediction # of
prodcut sold per ID: &#39;</span><span class="p">,</span> <span class="n">prediction_monthly</span>
<span class="p">[</span><span class="s1">&#39;item_cnt_month&#39;</span><span class="p">]</span><span
class="o">.</span><span class="n">mean</span><span class="p">())</span>
</pre></div>

    </div>
</div>
</div>

<div class="output_wrapper">
<div class="output">


<div class="output_area">

    <div class="prompt"></div>
```

```
<div class="output_subarea output_stream output_stdout output_text">
<pre>max prediction # of prodcut sold per ID:  44.0
min prediction # of prodcut sold per ID:  0.0
median prediction # of prodcut sold per ID:  1.0
mean prediction # of prodcut sold per ID:  1.4179411764705883
</pre>
</div>
</div>

</div>
</div>

</div>
<div class="cell border-box-sizing text_cell rendered"><div class="prompt input_prompt">
</div><div class="inner_cell">
<div class="text_cell_render border-box-sizing rendered_html">
<p><strong>Finally, from the density plot, we know our outputs behave what we expected!</strong></p>

</div>
</div>
</div>
<div class="cell border-box-sizing code_cell rendered">
<div class="input">
<div class="prompt input_prompt">In [132]:</div>
<div class="inner_cell">
    <div class="input_area">
<div class=" highlight hl-ipython3"><pre><span></span><span class="c1"># density plot</span>
<span class="n">plt</span><span class="o">.</span><span class="n">subplots</span><span class="p">
(</span><span class="n">figsize</span><span class="o">=</span><span class="p">(</span><span
class="mi">10</span><span class="p">,</span> <span class="mi">5</span><span class="p">))</span>
<span class="n">sns</span><span class="o">.</span><span class="n">distplot</span><span class="p">
(</span><span class="n">prediction_monthly</span><span class="p">[</span><span
class="s1">&#39;item_cnt_month&#39;</span><span class="p">])</span>
<span class="n">plt</span><span class="o">.</span><span class="n">show</span><span class="p">()
</span>
</pre></div>

    </div>
</div>
</div>

<div class="output_wrapper">
<div class="output">


<div class="output_area">

    <div class="prompt"></div>




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<h1 id="Conclusions:">Conclusions:<a class="anchor-link" href="#Conclusions:">¶</a></h1> In this problem, we predict futures sales for the next month given the daily data information. We understand it is a particular problem for the time series forecasting, so the technique we analyze and implement are following machine learning framework with a time series standard. With the fact that the train and test data cannot split randomly. Time series infomration could be heavily depend on time process. As such, for each features we also consider the trend, seasonality, and idiosyncrastic data behaviors.
With the help of the Exploratory Data Analysis (EDA), we understand the data science questions and identify the itmes sold behaviors. We removed extreme outliers for modeling purposes. This practice helps a lot for us to understand our targeting data distributions and know what we expect to model up.
To extract more features to be modelled, we have done features enginnering to obtain meaningful information. It is of much help for us to better predict the future behaviors.
Having a reserach on the problems, we have decided to chose Gradient Boosting model as our baseline to train and fit the model, with the aim of combining several weak learners to a relatively strong learner for our predicting purposes.
Throughout the whole processes, our model accuracy improves greatly (overall from ~48% to ~69% of our dev/ test data) by filtering out extreme outliers and irrelevnat features. This enhancement are also coming from the hyper parameter setting, such as we changed using tweedie distribution (poisson based) in stead of a normal distribution, as our data behaves more similar to a poisson process. In addition, from implemenitng sklearn gridsearch, we have better understand the optimal model's hyper parameters.
(Extra Finding)
We also tested two alternative model: one is focus only on items sold per store level, and another one is focus on the lag 1 self-explanatory variables. Both results suggest that the model can probaly be improved in the future study by:
(1) train model from each store levels.
(2) add autoregressive term (self-explanaotry with different lag) to our feature engineering.

<h1 id="~-The-End-~">~ The End ~<a class="anchor-link" href="#~-The-End-~">¶</a></h1>

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