{"version":3,"file":"dropdown.js","sources":["../src/dropdown.js"],"sourcesContent":["/\*\*\n \* --------------------------------------------------------------------------\n \* Bootstrap (v5.2.0): dropdown.js\n \* Licensed under MIT (https://github.com/twbs/bootstrap/blob/main/LICENSE)\n \* --------------------------------------------------------------------------\n \*/\n\nimport \* as Popper from '@popperjs/core'\nimport {\n defineJQueryPlugin,\n getElement,\n getNextActiveElement,\n isDisabled,\n isElement,\n isRTL,\n isVisible,\n noop\n} from './util/index'\nimport EventHandler from './dom/event-handler'\nimport Manipulator from './dom/manipulator'\nimport SelectorEngine from './dom/selector-engine'\nimport BaseComponent from './base-component'\n\n/\*\*\n \* Constants\n \*/\n\nconst NAME = 'dropdown'\nconst DATA\_KEY = 'bs.dropdown'\nconst EVENT\_KEY = `.${DATA\_KEY}`\nconst DATA\_API\_KEY = '.data-api'\n\nconst ESCAPE\_KEY = 'Escape'\nconst TAB\_KEY = 'Tab'\nconst ARROW\_UP\_KEY = 'ArrowUp'\nconst ARROW\_DOWN\_KEY = 'ArrowDown'\nconst RIGHT\_MOUSE\_BUTTON = 2 // MouseEvent.button value for the secondary button, usually the right button\n\nconst EVENT\_HIDE = `hide${EVENT\_KEY}`\nconst EVENT\_HIDDEN = `hidden${EVENT\_KEY}`\nconst EVENT\_SHOW = `show${EVENT\_KEY}`\nconst EVENT\_SHOWN = `shown${EVENT\_KEY}`\nconst EVENT\_CLICK\_DATA\_API = `click${EVENT\_KEY}${DATA\_API\_KEY}`\nconst EVENT\_KEYDOWN\_DATA\_API = `keydown${EVENT\_KEY}${DATA\_API\_KEY}`\nconst EVENT\_KEYUP\_DATA\_API = `keyup${EVENT\_KEY}${DATA\_API\_KEY}`\n\nconst CLASS\_NAME\_SHOW = 'show'\nconst CLASS\_NAME\_DROPUP = 'dropup'\nconst CLASS\_NAME\_DROPEND = 'dropend'\nconst CLASS\_NAME\_DROPSTART = 'dropstart'\nconst CLASS\_NAME\_DROPUP\_CENTER = 'dropup-center'\nconst CLASS\_NAME\_DROPDOWN\_CENTER = 'dropdown-center'\n\nconst SELECTOR\_DATA\_TOGGLE = '[data-bs-toggle=\"dropdown\"]:not(.disabled):not(:disabled)'\nconst SELECTOR\_DATA\_TOGGLE\_SHOWN = `${SELECTOR\_DATA\_TOGGLE}.${CLASS\_NAME\_SHOW}`\nconst SELECTOR\_MENU = '.dropdown-menu'\nconst SELECTOR\_NAVBAR = '.navbar'\nconst SELECTOR\_NAVBAR\_NAV = '.navbar-nav'\nconst SELECTOR\_VISIBLE\_ITEMS = '.dropdown-menu .dropdown-item:not(.disabled):not(:disabled)'\n\nconst PLACEMENT\_TOP = isRTL() ? 'top-end' : 'top-start'\nconst PLACEMENT\_TOPEND = isRTL() ? 'top-start' : 'top-end'\nconst PLACEMENT\_BOTTOM = isRTL() ? 'bottom-end' : 'bottom-start'\nconst PLACEMENT\_BOTTOMEND = isRTL() ? 'bottom-start' : 'bottom-end'\nconst PLACEMENT\_RIGHT = isRTL() ? 'left-start' : 'right-start'\nconst PLACEMENT\_LEFT = isRTL() ? 'right-start' : 'left-start'\nconst PLACEMENT\_TOPCENTER = 'top'\nconst PLACEMENT\_BOTTOMCENTER = 'bottom'\n\nconst Default = {\n autoClose: true,\n boundary: 'clippingParents',\n display: 'dynamic',\n offset: [0, 2],\n popperConfig: null,\n reference: 'toggle'\n}\n\nconst DefaultType = {\n autoClose: '(boolean|string)',\n boundary: '(string|element)',\n display: 'string',\n offset: '(array|string|function)',\n popperConfig: '(null|object|function)',\n reference: '(string|element|object)'\n}\n\n/\*\*\n \* Class definition\n \*/\n\nclass Dropdown extends BaseComponent {\n constructor(element, config) {\n super(element, config)\n\n this.\_popper = null\n this.\_parent = this.\_element.parentNode // dropdown wrapper\n this.\_menu = SelectorEngine.findOne(SELECTOR\_MENU, this.\_parent)\n this.\_inNavbar = this.\_detectNavbar()\n }\n\n // Getters\n static get Default() {\n return Default\n }\n\n static get DefaultType() {\n return DefaultType\n }\n\n static get NAME() {\n return NAME\n }\n\n // Public\n toggle() {\n return this.\_isShown() ? this.hide() : this.show()\n }\n\n show() {\n if (isDisabled(this.\_element) || this.\_isShown()) {\n return\n }\n\n const relatedTarget = {\n relatedTarget: this.\_element\n }\n\n const showEvent = EventHandler.trigger(this.\_element, EVENT\_SHOW, relatedTarget)\n\n if (showEvent.defaultPrevented) {\n return\n }\n\n this.\_createPopper()\n\n // If this is a touch-enabled device we add extra\n // empty mouseover listeners to the body's immediate children;\n // only needed because of broken event delegation on iOS\n // https://www.quirksmode.org/blog/archives/2014/02/mouse\_event\_bub.html\n if ('ontouchstart' in document.documentElement && !this.\_parent.closest(SELECTOR\_NAVBAR\_NAV)) {\n for (const element of [].concat(...document.body.children)) {\n EventHandler.on(element, 'mouseover', noop)\n }\n }\n\n this.\_element.focus()\n this.\_element.setAttribute('aria-expanded', true)\n\n this.\_menu.classList.add(CLASS\_NAME\_SHOW)\n this.\_element.classList.add(CLASS\_NAME\_SHOW)\n EventHandler.trigger(this.\_element, EVENT\_SHOWN, relatedTarget)\n }\n\n hide() {\n if (isDisabled(this.\_element) || !this.\_isShown()) {\n return\n }\n\n const relatedTarget = {\n relatedTarget: this.\_element\n }\n\n this.\_completeHide(relatedTarget)\n }\n\n dispose() {\n if (this.\_popper) {\n this.\_popper.destroy()\n }\n\n super.dispose()\n }\n\n update() {\n this.\_inNavbar = this.\_detectNavbar()\n if (this.\_popper) {\n this.\_popper.update()\n }\n }\n\n // Private\n \_completeHide(relatedTarget) {\n const hideEvent = EventHandler.trigger(this.\_element, EVENT\_HIDE, relatedTarget)\n if (hideEvent.defaultPrevented) {\n return\n }\n\n // If this is a touch-enabled device we remove the extra\n // empty mouseover listeners we added for iOS support\n if ('ontouchstart' in document.documentElement) {\n for (const element of [].concat(...document.body.children)) {\n EventHandler.off(element, 'mouseover', noop)\n }\n }\n\n if (this.\_popper) {\n this.\_popper.destroy()\n }\n\n this.\_menu.classList.remove(CLASS\_NAME\_SHOW)\n this.\_element.classList.remove(CLASS\_NAME\_SHOW)\n this.\_element.setAttribute('aria-expanded', 'false')\n Manipulator.removeDataAttribute(this.\_menu, 'popper')\n EventHandler.trigger(this.\_element, EVENT\_HIDDEN, relatedTarget)\n }\n\n \_getConfig(config) {\n config = super.\_getConfig(config)\n\n if (typeof config.reference === 'object' && !isElement(config.reference) &&\n typeof config.reference.getBoundingClientRect !== 'function'\n ) {\n // Popper virtual elements require a getBoundingClientRect method\n throw new TypeError(`${NAME.toUpperCase()}: Option \"reference\" provided type \"object\" without a required \"getBoundingClientRect\" method.`)\n }\n\n return config\n }\n\n \_createPopper() {\n if (typeof Popper === 'undefined') {\n throw new TypeError('Bootstrap\\'s dropdowns require Popper (https://popper.js.org)')\n }\n\n let referenceElement = this.\_element\n\n if (this.\_config.reference === 'parent') {\n referenceElement = this.\_parent\n } else if (isElement(this.\_config.reference)) {\n referenceElement = getElement(this.\_config.reference)\n } else if (typeof this.\_config.reference === 'object') {\n referenceElement = this.\_config.reference\n }\n\n const popperConfig = this.\_getPopperConfig()\n this.\_popper = Popper.createPopper(referenceElement, this.\_menu, popperConfig)\n }\n\n \_isShown() {\n return this.\_menu.classList.contains(CLASS\_NAME\_SHOW)\n }\n\n \_getPlacement() {\n const parentDropdown = this.\_parent\n\n if (parentDropdown.classList.contains(CLASS\_NAME\_DROPEND)) {\n return PLACEMENT\_RIGHT\n }\n\n if (parentDropdown.classList.contains(CLASS\_NAME\_DROPSTART)) {\n return PLACEMENT\_LEFT\n }\n\n if (parentDropdown.classList.contains(CLASS\_NAME\_DROPUP\_CENTER)) {\n return PLACEMENT\_TOPCENTER\n }\n\n if (parentDropdown.classList.contains(CLASS\_NAME\_DROPDOWN\_CENTER)) {\n return PLACEMENT\_BOTTOMCENTER\n }\n\n // We need to trim the value because custom properties can also include spaces\n const isEnd = getComputedStyle(this.\_menu).getPropertyValue('--bs-position').trim() === 'end'\n\n if (parentDropdown.classList.contains(CLASS\_NAME\_DROPUP)) {\n return isEnd ? PLACEMENT\_TOPEND : PLACEMENT\_TOP\n }\n\n return isEnd ? PLACEMENT\_BOTTOMEND : PLACEMENT\_BOTTOM\n }\n\n \_detectNavbar() {\n return this.\_element.closest(SELECTOR\_NAVBAR) !== null\n }\n\n \_getOffset() {\n const { offset } = this.\_config\n\n if (typeof offset === 'string') {\n return offset.split(',').map(value => Number.parseInt(value, 10))\n }\n\n if (typeof offset === 'function') {\n return popperData => offset(popperData, this.\_element)\n }\n\n return offset\n }\n\n \_getPopperConfig() {\n const defaultBsPopperConfig = {\n placement: this.\_getPlacement(),\n modifiers: [{\n name: 'preventOverflow',\n options: {\n boundary: this.\_config.boundary\n }\n },\n {\n name: 'offset',\n options: {\n offset: this.\_getOffset()\n }\n }]\n }\n\n // Disable Popper if we have a static display or Dropdown is in Navbar\n if (this.\_inNavbar || this.\_config.display === 'static') {\n Manipulator.setDataAttribute(this.\_menu, 'popper', 'static') // todo:v6 remove\n defaultBsPopperConfig.modifiers = [{\n name: 'applyStyles',\n enabled: false\n }]\n }\n\n return {\n ...defaultBsPopperConfig,\n ...(typeof this.\_config.popperConfig === 'function' ? this.\_config.popperConfig(defaultBsPopperConfig) : this.\_config.popperConfig)\n }\n }\n\n \_selectMenuItem({ key, target }) {\n const items = SelectorEngine.find(SELECTOR\_VISIBLE\_ITEMS, this.\_menu).filter(element => isVisible(element))\n\n if (!items.length) {\n return\n }\n\n // if target isn't included in items (e.g. when expanding the dropdown)\n // allow cycling to get the last item in case key equals ARROW\_UP\_KEY\n getNextActiveElement(items, target, key === ARROW\_DOWN\_KEY, !items.includes(target)).focus()\n }\n\n // Static\n static jQueryInterface(config) {\n return this.each(function () {\n const data = Dropdown.getOrCreateInstance(this, config)\n\n if (typeof config !== 'string') {\n return\n }\n\n if (typeof data[config] === 'undefined') {\n throw new TypeError(`No method named \"${config}\"`)\n }\n\n data[config]()\n })\n }\n\n static clearMenus(event) {\n if (event.button === RIGHT\_MOUSE\_BUTTON || (event.type === 'keyup' && event.key !== TAB\_KEY)) {\n return\n }\n\n const openToggles = SelectorEngine.find(SELECTOR\_DATA\_TOGGLE\_SHOWN)\n\n for (const toggle of openToggles) {\n const context = Dropdown.getInstance(toggle)\n if (!context || context.\_config.autoClose === false) {\n continue\n }\n\n const composedPath = event.composedPath()\n const isMenuTarget = composedPath.includes(context.\_menu)\n if (\n composedPath.includes(context.\_element) ||\n (context.\_config.autoClose === 'inside' && !isMenuTarget) ||\n (context.\_config.autoClose === 'outside' && isMenuTarget)\n ) {\n continue\n }\n\n // Tab navigation through the dropdown menu or events from contained inputs shouldn't close the menu\n if (context.\_menu.contains(event.target) && ((event.type === 'keyup' && event.key === TAB\_KEY) || /input|select|option|textarea|form/i.test(event.target.tagName))) {\n continue\n }\n\n const relatedTarget = { relatedTarget: context.\_element }\n\n if (event.type === 'click') {\n relatedTarget.clickEvent = event\n }\n\n context.\_completeHide(relatedTarget)\n }\n }\n\n static dataApiKeydownHandler(event) {\n // If not an UP | DOWN | ESCAPE key => not a dropdown command\n // If input/textarea && if key is other than ESCAPE => not a dropdown command\n\n const isInput = /input|textarea/i.test(event.target.tagName)\n const isEscapeEvent = event.key === ESCAPE\_KEY\n const isUpOrDownEvent = [ARROW\_UP\_KEY, ARROW\_DOWN\_KEY].includes(event.key)\n\n if (!isUpOrDownEvent && !isEscapeEvent) {\n return\n }\n\n if (isInput && !isEscapeEvent) {\n return\n }\n\n event.preventDefault()\n\n const getToggleButton = SelectorEngine.findOne(SELECTOR\_DATA\_TOGGLE, event.delegateTarget.parentNode)\n const instance = Dropdown.getOrCreateInstance(getToggleButton)\n\n if (isUpOrDownEvent) {\n event.stopPropagation()\n instance.show()\n instance.\_selectMenuItem(event)\n return\n }\n\n if (instance.\_isShown()) { // else is escape and we check if it is shown\n event.stopPropagation()\n instance.hide()\n getToggleButton.focus()\n }\n }\n}\n\n/\*\*\n \* Data API implementation\n \*/\n\nEventHandler.on(document, EVENT\_KEYDOWN\_DATA\_API, SELECTOR\_DATA\_TOGGLE, Dropdown.dataApiKeydownHandler)\nEventHandler.on(document, EVENT\_KEYDOWN\_DATA\_API, SELECTOR\_MENU, Dropdown.dataApiKeydownHandler)\nEventHandler.on(document, EVENT\_CLICK\_DATA\_API, Dropdown.clearMenus)\nEventHandler.on(document, EVENT\_KEYUP\_DATA\_API, Dropdown.clearMenus)\nEventHandler.on(document, EVENT\_CLICK\_DATA\_API, SELECTOR\_DATA\_TOGGLE, function (event) {\n event.preventDefault()\n Dropdown.getOrCreateInstance(this).toggle()\n})\n\n/\*\*\n \* jQuery\n \*/\n\ndefineJQueryPlugin(Dropdown)\n\nexport default Dropdown\n"],"names":["NAME","DATA\_KEY","EVENT\_KEY","DATA\_API\_KEY","ESCAPE\_KEY","TAB\_KEY","ARROW\_UP\_KEY","ARROW\_DOWN\_KEY","RIGHT\_MOUSE\_BUTTON","EVENT\_HIDE","EVENT\_HIDDEN","EVENT\_SHOW","EVENT\_SHOWN","EVENT\_CLICK\_DATA\_API","EVENT\_KEYDOWN\_DATA\_API","EVENT\_KEYUP\_DATA\_API","CLASS\_NAME\_SHOW","CLASS\_NAME\_DROPUP","CLASS\_NAME\_DROPEND","CLASS\_NAME\_DROPSTART","CLASS\_NAME\_DROPUP\_CENTER","CLASS\_NAME\_DROPDOWN\_CENTER","SELECTOR\_DATA\_TOGGLE","SELECTOR\_DATA\_TOGGLE\_SHOWN","SELECTOR\_MENU","SELECTOR\_NAVBAR","SELECTOR\_NAVBAR\_NAV","SELECTOR\_VISIBLE\_ITEMS","PLACEMENT\_TOP","isRTL","PLACEMENT\_TOPEND","PLACEMENT\_BOTTOM","PLACEMENT\_BOTTOMEND","PLACEMENT\_RIGHT","PLACEMENT\_LEFT","PLACEMENT\_TOPCENTER","PLACEMENT\_BOTTOMCENTER","Default","autoClose","boundary","display","offset","popperConfig","reference","DefaultType","Dropdown","BaseComponent","constructor","element","config","\_popper","\_parent","\_element","parentNode","\_menu","SelectorEngine","findOne","\_inNavbar","\_detectNavbar","toggle","\_isShown","hide","show","isDisabled","relatedTarget","showEvent","EventHandler","trigger","defaultPrevented","\_createPopper","document","documentElement","closest","concat","body","children","on","noop","focus","setAttribute","classList","add","\_completeHide","dispose","destroy","update","hideEvent","off","remove","Manipulator","removeDataAttribute","\_getConfig","isElement","getBoundingClientRect","TypeError","toUpperCase","Popper","referenceElement","\_config","getElement","\_getPopperConfig","createPopper","contains","\_getPlacement","parentDropdown","isEnd","getComputedStyle","getPropertyValue","trim","\_getOffset","split","map","value","Number","parseInt","popperData","defaultBsPopperConfig","placement","modifiers","name","options","setDataAttribute","enabled","\_selectMenuItem","key","target","items","find","filter","isVisible","length","getNextActiveElement","includes","jQueryInterface","each","data","getOrCreateInstance","clearMenus","event","button","type","openToggles","context","getInstance","composedPath","isMenuTarget","test","tagName","clickEvent","dataApiKeydownHandler","isInput","isEscapeEvent","isUpOrDownEvent","preventDefault","getToggleButton","delegateTarget","instance","stopPropagation","defineJQueryPlugin"],"mappings":";;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;EAAA;EACA;EACA;EACA;EACA;EACA;EAkBA;EACA;EACA;;EAEA,MAAMA,IAAI,GAAG,UAAb,CAAA;EACA,MAAMC,QAAQ,GAAG,aAAjB,CAAA;EACA,MAAMC,SAAS,GAAI,CAAGD,CAAAA,EAAAA,QAAS,CAA/B,CAAA,CAAA;EACA,MAAME,YAAY,GAAG,WAArB,CAAA;EAEA,MAAMC,UAAU,GAAG,QAAnB,CAAA;EACA,MAAMC,OAAO,GAAG,KAAhB,CAAA;EACA,MAAMC,YAAY,GAAG,SAArB,CAAA;EACA,MAAMC,cAAc,GAAG,WAAvB,CAAA;EACA,MAAMC,kBAAkB,GAAG,CAA3B;;EAEA,MAAMC,UAAU,GAAI,CAAMP,IAAAA,EAAAA,SAAU,CAApC,CAAA,CAAA;EACA,MAAMQ,YAAY,GAAI,CAAQR,MAAAA,EAAAA,SAAU,CAAxC,CAAA,CAAA;EACA,MAAMS,UAAU,GAAI,CAAMT,IAAAA,EAAAA,SAAU,CAApC,CAAA,CAAA;EACA,MAAMU,WAAW,GAAI,CAAOV,KAAAA,EAAAA,SAAU,CAAtC,CAAA,CAAA;EACA,MAAMW,oBAAoB,GAAI,CAAA,KAAA,EAAOX,SAAU,CAAA,EAAEC,YAAa,CAA9D,CAAA,CAAA;EACA,MAAMW,sBAAsB,GAAI,CAAA,OAAA,EAASZ,SAAU,CAAA,EAAEC,YAAa,CAAlE,CAAA,CAAA;EACA,MAAMY,oBAAoB,GAAI,CAAA,KAAA,EAAOb,SAAU,CAAA,EAAEC,YAAa,CAA9D,CAAA,CAAA;EAEA,MAAMa,eAAe,GAAG,MAAxB,CAAA;EACA,MAAMC,iBAAiB,GAAG,QAA1B,CAAA;EACA,MAAMC,kBAAkB,GAAG,SAA3B,CAAA;EACA,MAAMC,oBAAoB,GAAG,WAA7B,CAAA;EACA,MAAMC,wBAAwB,GAAG,eAAjC,CAAA;EACA,MAAMC,0BAA0B,GAAG,iBAAnC,CAAA;EAEA,MAAMC,oBAAoB,GAAG,2DAA7B,CAAA;EACA,MAAMC,0BAA0B,GAAI,CAAA,EAAED,oBAAqB,CAAA,CAAA,EAAGN,eAAgB,CAA9E,CAAA,CAAA;EACA,MAAMQ,aAAa,GAAG,gBAAtB,CAAA;EACA,MAAMC,eAAe,GAAG,SAAxB,CAAA;EACA,MAAMC,mBAAmB,GAAG,aAA5B,CAAA;EACA,MAAMC,sBAAsB,GAAG,6DAA/B,CAAA;EAEA,MAAMC,aAAa,GAAGC,WAAK,EAAK,GAAA,SAAL,GAAiB,WAA5C,CAAA;EACA,MAAMC,gBAAgB,GAAGD,WAAK,EAAK,GAAA,WAAL,GAAmB,SAAjD,CAAA;EACA,MAAME,gBAAgB,GAAGF,WAAK,EAAK,GAAA,YAAL,GAAoB,cAAlD,CAAA;EACA,MAAMG,mBAAmB,GAAGH,WAAK,EAAK,GAAA,cAAL,GAAsB,YAAvD,CAAA;EACA,MAAMI,eAAe,GAAGJ,WAAK,EAAK,GAAA,YAAL,GAAoB,aAAjD,CAAA;EACA,MAAMK,cAAc,GAAGL,WAAK,EAAK,GAAA,aAAL,GAAqB,YAAjD,CAAA;EACA,MAAMM,mBAAmB,GAAG,KAA5B,CAAA;EACA,MAAMC,sBAAsB,GAAG,QAA/B,CAAA;EAEA,MAAMC,OAAO,GAAG;EACdC,EAAAA,SAAS,EAAE,IADG;EAEdC,EAAAA,QAAQ,EAAE,iBAFI;EAGdC,EAAAA,OAAO,EAAE,SAHK;EAIdC,EAAAA,MAAM,EAAE,CAAC,CAAD,EAAI,CAAJ,CAJM;EAKdC,EAAAA,YAAY,EAAE,IALA;EAMdC,EAAAA,SAAS,EAAE,QAAA;EANG,CAAhB,CAAA;EASA,MAAMC,WAAW,GAAG;EAClBN,EAAAA,SAAS,EAAE,kBADO;EAElBC,EAAAA,QAAQ,EAAE,kBAFQ;EAGlBC,EAAAA,OAAO,EAAE,QAHS;EAIlBC,EAAAA,MAAM,EAAE,yBAJU;EAKlBC,EAAAA,YAAY,EAAE,wBALI;EAMlBC,EAAAA,SAAS,EAAE,yBAAA;EANO,CAApB,CAAA;EASA;EACA;EACA;;EAEA,MAAME,QAAN,SAAuBC,8BAAvB,CAAqC;EACnCC,EAAAA,WAAW,CAACC,OAAD,EAAUC,MAAV,EAAkB;MAC3B,KAAMD,CAAAA,OAAN,EAAeC,MAAf,CAAA,CAAA;MAEA,IAAKC,CAAAA,OAAL,GAAe,IAAf,CAAA;EACA,IAAA,IAAA,CAAKC,OAAL,GAAe,IAAA,CAAKC,QAAL,CAAcC,UAA7B,CAJ2B;;MAK3B,IAAKC,CAAAA,KAAL,GAAaC,+BAAc,CAACC,OAAf,CAAuBhC,aAAvB,EAAsC,IAAK2B,CAAAA,OAA3C,CAAb,CAAA;EACA,IAAA,IAAA,CAAKM,SAAL,GAAiB,IAAKC,CAAAA,aAAL,EAAjB,CAAA;EACD,GARkC;;;EAWjB,EAAA,WAAPrB,OAAO,GAAG;EACnB,IAAA,OAAOA,OAAP,CAAA;EACD,GAAA;;EAEqB,EAAA,WAAXO,WAAW,GAAG;EACvB,IAAA,OAAOA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