

Chart函式

目的：將json data轉為圖表形式呈現

所需參數：json資料、division id(html)、字體大小

可進行操作：

- 下載PNG/JPG檔

html

```
<script src="https://d3js.org/d3.v6.min.js"></script>
<script src="chart_example.js"></script>

<body>
  <div class="Chart" style="width: 1500px;"></div>
</body>
```

javascript

```
function chart(data, divisionID, fontSize)
```

Json data input

Json data 的第一筆資料格式

```
{  
  Xname:"x-coordinate", //X軸名稱  
  Xticks:20, //X軸座標數量  
  areaSpace:20, //areatypedata的圖間隔  
  fontSize:{  
    Xfontsize:"20", Yfontsize:"15", XnameFontSize:"20",  
barFontSize:"20", dnaFontSize:"1",  
  } //各部分的字體大小設定  
}
```

Json data input

Bar type input data

```
{
  type: "bar",
  color: "#000000",
  data:[
    { name: 'IRES 1', start: 81, end: 83, direction: false, interaction: "IRES 2" },
    { name: 'IRES 2', start: 86, end: 84, direction: true, interaction: "IRES 1" },
    { name: 'IRES 3', start: 87, end: 90, direction: true }
  ],
  dataname: "IRES1"
},
```

highlight type input data (重點強調某區段)

```
{
  type: "highlight",
  start:105,
  end:505
}
```

Json data input

Area type input data

```
{
  type: "area",
  color: "#a9b4a4",
  data:[
    { x: 80, y: 0.01 },
    { x: 81, y: 0.019308455 },
    { x: 82, y: 0.019308455 },
    { x: 83, y: 0.015 },
    { x: 84, y: 0.019308400 },
    { x: 85, y: 0.012 },
    { x: 86, y: 0.019308455 },
    { x: 87, y: 0.018 },
    { x: 88, y: 0.019308455 },
    { x: 89, y: 0.003 },
    { x: 90, y: 0.009 }
  ],
  dataname: "conversation1",
  numberofYdigit:5
},
```

Dna type input data

```
{
  type: "dna",
  data:[
    { x: 81, y: "C" },
    { x: 82, y: "T" },
    { x: 83, y: "A" },
    { x: 84, y: "G" },
    { x: 85, y: "C" },
    { x: 86, y: "T" },
    { x: 87, y: "A" },
    { x: 88, y: "G" },
    { x: 89, y: "C" },
    { x: 90, y: "T" }
  ],
  dictionary: {
    "A": "#0294A5",
    "T": "#921AFF",
    "C": "#AE8F00",
    "U": "#000000",
    "G": "#D72F01"
  },
  dataname: "CTAG1"
}
```

Output

Bar type output



Area type output



Output

Dna type output

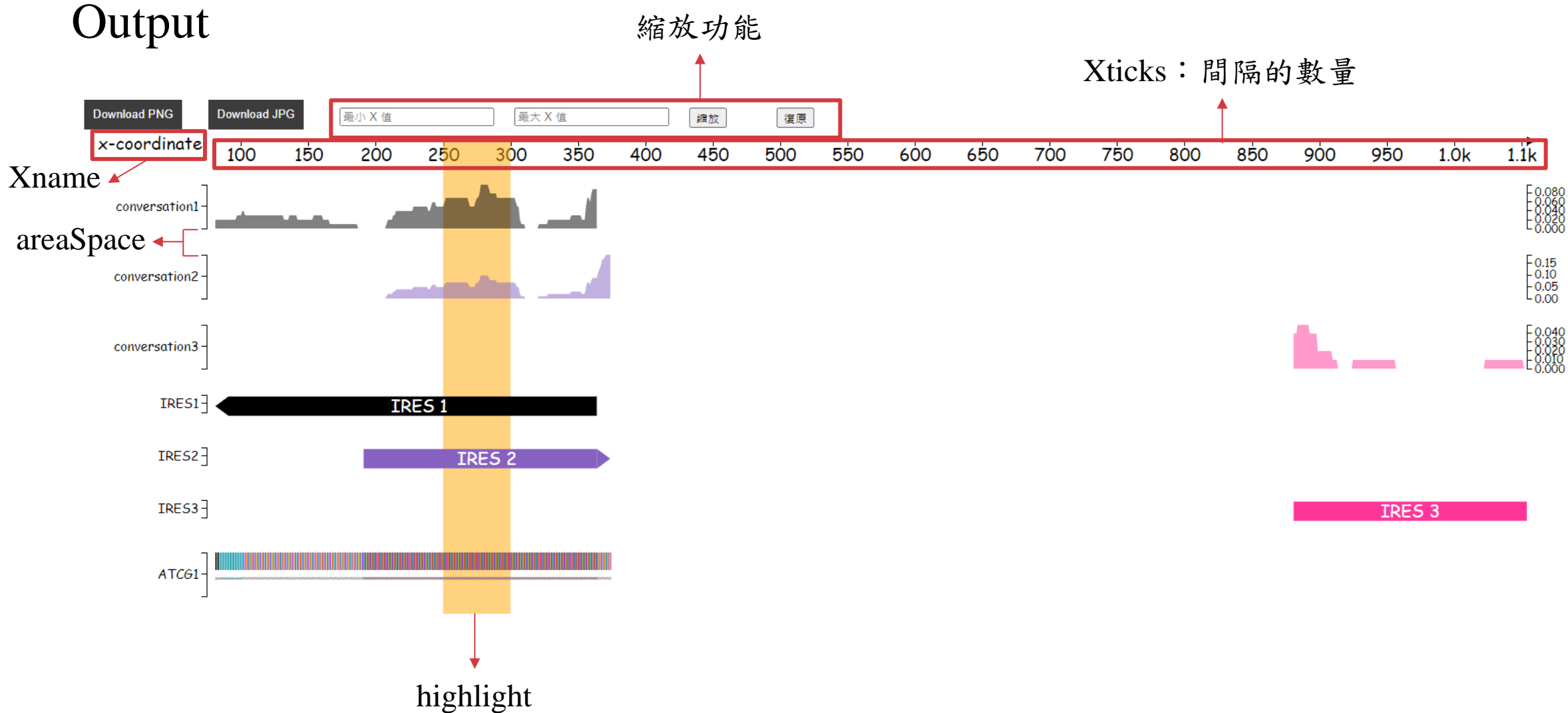
Dictionary，自定義字母和對應顏色

ATCG1

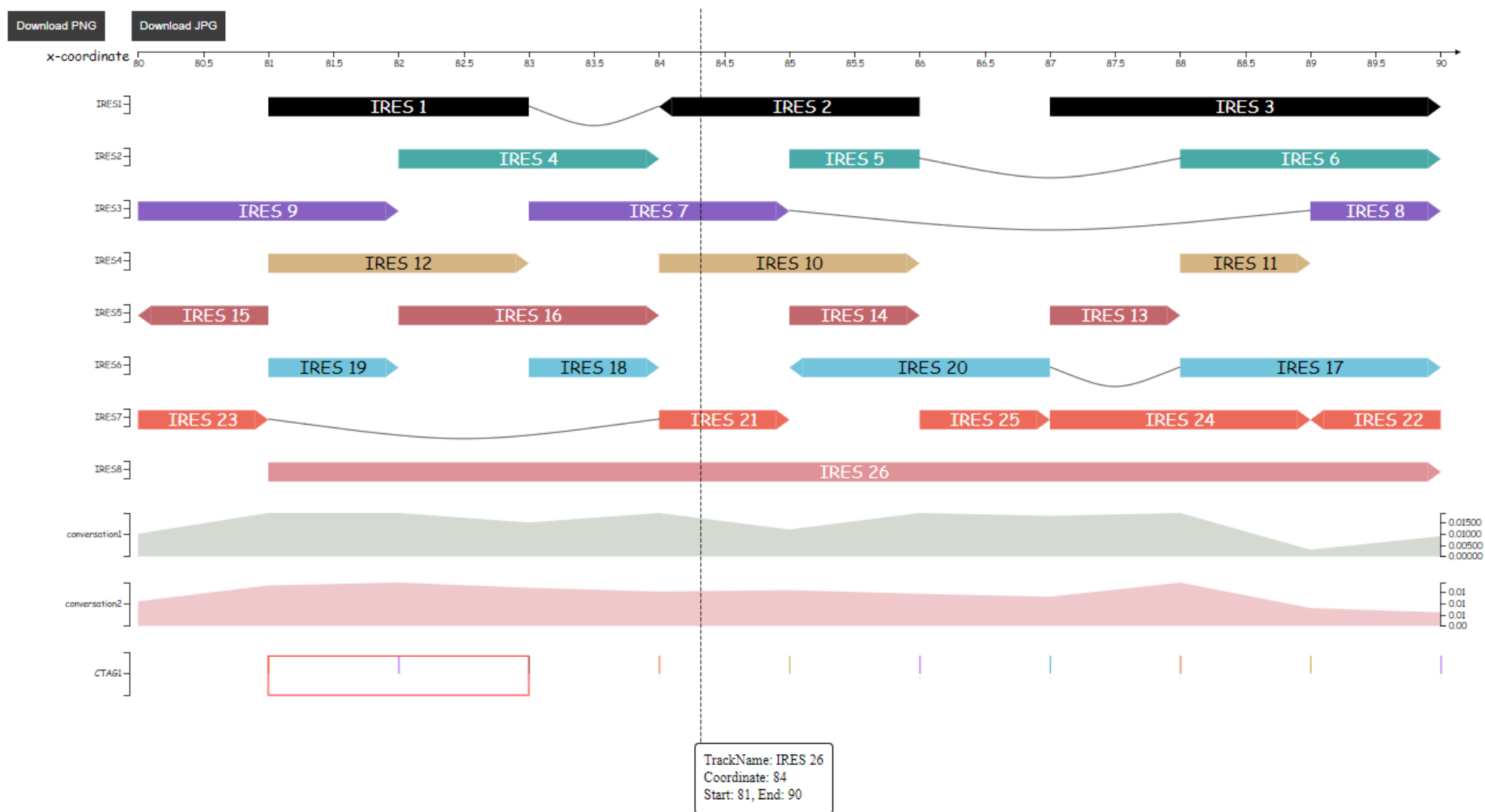
dataname



Output



Output



常用色碼

#000000



#48A6A9



#8661C1



#D4B483



#C1666B



#ED6A5A



#DF9298



#A9B4A4



#72C4DC

