# Comp 125 - Visual Information Processing

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# **HTML** - markup for tables

- great example of poor usage of HTML markup is element
- main issue is use of nested tables and spacer elements, images...
- if used correctly in structured markup
  - tables can be very useful structure
  - impart a sense of semantic organisation to data
  - creating various interpretive information
- what is a table for?
  - structuring data
  - data to impart curated information...

• simple table example - columns and rows for presentation purposes

```
Travel Destinations
<!-- basic table structure - minimal - rows and columns -->
Nice
 France
 Cours Saleya
Cannes
 France
 La Croisette
Antibes
 Picasso museum
```

#### example

example - basic table for presentation

add semantic structure & elements to table caption - replace with correct <caption> usage for a table...

- modern browsers style <caption> by default
  - centred above the table
- modify styling as required

#### example

example - basic table caption

add a summary attribute to the table

- add further meaning and structure to the table
  - use of a summary attribute on the table element
- processed by the browsers for semantics
- particularly useful for non-visual browsers

#### example

example - basic table with summary

add correct headers to the table

#### Benefits include:

- remove need for presentational markup, bold elements
- visual browsers process structural and presentation qualities of headings
- such heading elements can also be useful for non-visual browsers

#### example

example - basic table with headers

table markup and accessibility markup...

- creating a known relationship between the table's header, and its data
- a screen reader, for example, may read this table as follows,
  - Place: Nice, Country: France, Sights: Cours Saleya
- established a pattern to the output information for non-visual devices...

#### example

example - basic table with accessibility

add extra semantic markup for thead, tfoot, tbody...

- head and foot elements customarily go above the table body
  - allows modern browsers, readers, &c. to load that data first
  - then render the main table content

#### Benefits include:

- better underlying structure to data
- greater ease for styling a table due to clear divisions in data and information
- structural and presentational markup now working together correctly...

#### example

example - basic table with head, foot, body

# **HTML** - presentational vs structural

- consider presentational vs structural
  - e.g.usage of quotations in markup
  - similar consideration to headings...
- need to convey meaning and structure
- rather than a mere presentational instruction
- consider HTML's phrase elements
  - e.g. <cite>, <code>, <abbr>
- each phrase element imparts a sense of underlying meaning
  - structure & then presentation...

#### **HTML** - minimising markup

- noticeable benefit to creating sites with valid markup
  - separation of structural from presentational
  - general reduction in required markup
- simply conforming to the W3C's specifications
  - does not inherently guarantee less code for your project
  - possible to include many unnecessary elements & retain valid markup
  - markup may still be valid
- project issues may include:
  - lack of efficiency
- extraneous markup and code
- to help minimise markup
  - consider classes added to markup
  - o are there too many? are they all necessary? &c.
  - o avoid class usage for unique reference
  - avoid <div> usage for explicit block-level elements

### References

- W3Schools
- HTML tables