BACKGROUND: *Hierarchical references represent levels of superordination and subordination. In LCMPT the references are based in part on the Sachs-Hornbostel system of classification for musical instruments, and display the genus/species (or class/class member) relationship. They are indicated by the notations narrower term (NT) and broader term (BT). Examples:*

> **piano ensemble**
> BT keyboard ensemble
>
> **tenor saxophone**
> BT saxophone

Only the BTs are explicitly included in LCMPT authority records; the NTs are computer-generated for display. Example:

> **didjeridu**
> BT natural horn
>   *[explicitly coded]*
>
> **natural horn**
> NT didjeridu
>   *[computer-generated]*

1. General rule. Make appropriate BT references when establishing a new term, following the general principle above.

Link a new term only to the next broader term in the logical hierarchy by means of a BT. *Example:*

> **oboe**
> BT double reed instrument

> *[<u>not</u>* **oboe**
> BT double reed instrument
> BT reed instrument*]*

2. Number of BTs.

a. General rule.   Make at least one BT when establishing a new term. Make this BT even if both terms begin with the same word.   *Examples:*

```
flûte d'amour
BT flute

gamelan jegog
BT gamelan
```

"Orphan" terms – terms having no BT – are prohibited in LCMPT, except for the topmost term in each hierarchy: **ensemble**, **performer**, and **visuals**.

b. Number of BT references. Most terms belong to only one hierarchy and require only one BT. Some terms may incorporate more than one hierarchy and therefore require BTs in each hierarchy, but more than three BTs are rarely provided. Link the new term to the next broader term in each hierarchy.   *Examples:*

```
electronic keyboard ensemble
BT electronics
BT keyboard ensemble

harpsichord
BT keyboard instrument
BT plucked string instrument
BT zither
```

3. Revising existing hierarchical references. When establishing a new term that is an intermediate term in a hierarchy, add the new term as a BT to the authority records for all existing narrower ones, and delete any BTs that link any existing terms to terms broader than the newly-established intermediate term.   *Example:*

```
The term dümbelek was assigned the BT drum. When goblet drum was proposed, the
BT on dümbelek was cancelled and the BT goblet drum was assigned, resulting
in the following hierarchy:
```

drum
NT goblet drum

goblet drum
NT dümbelek