iJava Chapter 5
Reference and Formatting
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Reference and Formatting
Review

- Boolean Expressions
- Conditionals
- For Loops
- Method Headers (4)
It's like this and like that and like this and uh

- keyword this
  - used for self's attributes
  - "prevents" confusion
  - try to avoid

I GOT A CHAIN

THAT LOOKS LIKE MY FACE
Pass by Reference vs Pass by Value

Reference

Objects

Primitive data types (e.g., int)

Value
Pass by Reference vs Pass by Value

Reference

Primitive data types (e.g., int)

Objects

Value
Formatting

System.out.printf("$%6.2f", large);
## Formatting Examples

<table>
<thead>
<tr>
<th>type</th>
<th>code</th>
<th>typical literal</th>
<th>sample format strings</th>
<th>converted string values for output</th>
</tr>
</thead>
</table>
| int    | d    | 512             | "%14d" 
"%-14d"               | "512"    |
| double | f    | 1595.1680010754388 | "%14.2f" 
"%7.2f" 
"%-14.4e" | "1595.17" 
"1595.1680011" 
"1.5952e+03" |
| String | s    | "Hello, World" | "%14s" 
"%-14s" 
"%-14.5s" | "Hello, World" 
"Hello, World" 
"Hello" |
<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>int</td>
<td>d</td>
<td>512</td>
<td>&quot;%14d&quot;</td>
<td>512</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>&quot;%-14d&quot;</td>
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<td>1595.17</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>&quot;%-.7f&quot;</td>
<td>1595.1680011</td>
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<tr>
<td></td>
<td></td>
<td></td>
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<td>String</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>&quot;%-14.5s&quot;</td>
<td>&quot;Hello&quot;</td>
</tr>
</tbody>
</table>
Conclusion

- keyword this
- Pass by reference vs pass by value
- Formatting