Small Guide to Making Nice Tables

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Which One Looks Better?

| signal processing concept | algebraic concept (coordinate free) | in coordinates |
|---|---|---|
| fi lter | $h \in \mathcal{A}$ (algebra) | $\phi(h) \in \mathbb{C}^{I \times I}$ |
| signal | $s = \sum s_i b_i \in \mathcal{M}$ (\mathcal{A} -module) | $\mathbf{s} = (s_i)_{i \in I} \in \mathbb{C}^I$ |
| fi ltering | $h \cdot s$ | $\phi(h) \cdot \mathbf{s}$ |
| impulse | base vector $b_i \in \mathcal{M}$ | $\mathbf{b}_i = (\dots, 0, 1, 0 \dots)^T \in \mathbb{C}^I$ |
| impulse response of $h \in \mathcal{A}$ | $h \cdot b_i \in \mathcal{M}$ | $\phi(h) \cdot \mathbf{b}_i = (\dots, h_{-1}, h_0, h_1, \dots)^T \in \mathbb{C}^I$ |
| Fourier transform | $\Delta: \mathcal{M} \to \bigoplus_{\omega \in W} \mathcal{M}_{\omega}$ | $\mathcal{F}:\ \mathbb{C}^I	oigoplus_{\omega\in W}\mathbb{C}^{d_\omega}$ |
| | | $\Leftrightarrow \phi \to \bigoplus_{\omega \in W} \phi_{\omega}$ |
| spectrum of signal | $\Delta(s) = (s_{\omega})_{\omega \in W} = \omega \mapsto s_{\omega}$ | $\mathcal{F}(\mathbf{s}) = (\mathbf{s}_{\omega})_{\omega \in W} = \omega \mapsto \mathbf{s}_{\omega}$ |
| frequency response of $h \in \mathcal{A}$ | | $(\phi_{\omega}(h))_{\omega \in W} = \omega \mapsto \phi_{\omega}(h)$ |

| signal processing concept | algebraic concept (coordinate free) | in coordinates |
|---|---|--|
| filter | $h \in \mathcal{A}$ (algebra) | $\phi(h) \in \mathbb{C}^{I \times I}$ |
| signal | $s = \sum s_i b_i \in \mathcal{M}$ (A-module) | $\mathbf{s} = (s_i)_{i \in I} \in \mathbb{C}^I$ |
| filtering | $h \cdot s$ | $\phi(h) \cdot \mathbf{s}$ |
| impulse | base vector $b_i \in \mathcal{M}$ | $\mathbf{b}_i = (\dots, 0, 1, 0, \dots)^T \in \mathbb{C}^I$ |
| impulse response of $h \in \mathcal{A}$ | $h \cdot b_i \in \mathcal{M}$ | $\phi(h) \cdot \mathbf{b}_i = (\dots, h_{-1}, h_0, h_1, \dots)^T \in \mathbb{C}^I$ |
| Fourier transform | $\Delta: \ \mathcal{M} \to \bigoplus_{\omega \in W} \mathcal{M}_{\omega}$ | $\mathcal{F}: \ \mathbb{C}^I \to \bigoplus_{\omega \in W} \mathbb{C}^{d_\omega} \Leftrightarrow \phi \to \bigoplus_{\omega \in W} \phi_\omega$ |
| spectrum of signal | $\Delta(s) = (s_{\omega})_{\omega \in W} = \omega \mapsto s_{\omega}$ | $\mathcal{F}(\mathbf{s}) = (\mathbf{s}_{\omega})_{\omega \in W} = \omega \mapsto \mathbf{s}_{\omega}$ |
| frequency response of $h \in \mathcal{A}$ | n.a. | $(\phi_{\omega}(h))_{\omega \in W} = \omega \mapsto \phi_{\omega}(h)$ |

Easy decision, isn't it?

Another One

| | f | C | $s_n - s_{n-2}$ | s_n | $s_n - s_{n-1}$ | $s_n + s_{n-1}$ |
|-----------------|--------------------------|-----|-------------------|-------|-----------------|-----------------|
| $s_{-1} = s_1$ | 1 | T | DCT-1 | DCT-3 | DCT-5 | DCT-7 |
| | _ | _ | $2(x^2-1)U_{n-2}$ | T_n | $(x-1)W_{n-1}$ | $(x+1)V_{n-1}$ |
| $s_{-1} = 0$ | $\sin \theta$ | U | DST-3 | DST-1 | DST-7 | DST-5 |
| | | | $2T_n$ | U_n | V_n | W_n |
| $s_{-1} = s_0$ | $\cos \frac{1}{2}\theta$ | V | DCT-6 | DCT-8 | DCT-2 | DCT-4 |
| | | , | $2(x-1)W_{n-1}$ | V_n | $2(x-1)U_{n-1}$ | $2T_n$ |
| $s_{-1} = -s_0$ | $\sin \frac{1}{2}\theta$ | W | DST-8 | DST-6 | DST-4 | DST-2 |
| | | , , | $2(x+1)V_{n-1}$ | W_n | $2T_n$ | $2(x+1)U_{n-1}$ |

| | $s_n - s_{n-2}$ | s_n | $s_n - s_{n-1}$ | $s_n + s_{n-1}$ | f | C |
|-----------------|---------------------|-------|-----------------|-----------------|--------------------------|----------------|
| $s_{-1} = s_1$ | DCT-1 | DCT-3 | DCT-5 | DCT-7 | 1 | \overline{T} |
| | $2(x^2 - 1)U_{n-2}$ | T_n | $(x-1)W_{n-1}$ | $(x+1)V_{n-1}$ | | |
| $s_{-1} = 0$ | DST-3 | DST-1 | DST-7 | DST-5 | $\sin \theta$ | U |
| | $2T_n$ | U_n | V_n | W_n | | |
| $s_{-1} = s_0$ | DCT-6 | DCT-8 | DCT-2 | DCT-4 | $\cos \frac{1}{2}\theta$ | V |
| | $2(x-1)W_{n-1}$ | V_n | $2(x-1)U_{n-1}$ | $2T_n$ | _ | |
| $s_{-1} = -s_0$ | DST-8 | DST-6 | DST-4 | DST-2 | $\sin \frac{1}{2}\theta$ | W |
| | $2(x+1)V_{n-1}$ | W_n | $2T_n$ | $2(x+1)U_{n-1}$ | _ | |

If your tables tend to look like the above you may find this guide helpful

Background

- Up to 2005, I had been writing technical publications for 8 years, creating roughly 35 fully reviewed papers, 2 theses,
 20 proposals, and many other pages of technical writing
- In each case I spent a lot of effort on content and visual presentation; I am really picky
- In 2005 I learned (from Goran Frehse, thank you!) that I had had no clue how to make tables
- I summarize what I have learned in this short guide

Resources

"Chicago Manual of Style," The University of Chicago Press

■ Latex users: Use booktabs.sty and its documentation http://texcatalogue.sarovar.org/entries/booktabs.html

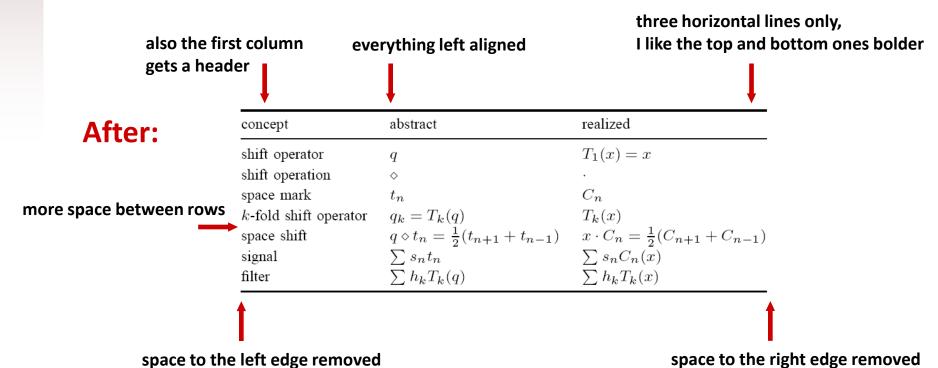
Most Important Guidelines for Making Tables

- Avoid vertical lines
- Avoid "boxing up" cells, usually 3 horizontal lines are enough: above, below, and after heading (see examples in this guide)
- Avoid double horizontal lines
- Enough space between rows
- If in doubt, align left

Example: Before and After

Before:

| | abstract | realized |
|-----------------------|---|--|
| shift operator | q | $T_1(x) = x$ |
| shift operation | ♦ | • |
| space mark | t_n | C_n |
| k-fold shift operator | $T_k(q)$ | $T_k(x)$ |
| space shift | $q \diamond t_n = \frac{1}{2}(t_{n+1} + t_{n-1})$ | $x \cdot C_n = \frac{1}{2}(C_{n+1} + C_{n-1})$ |
| signal | $\sum s_n t_n$ | $\sum s_n C_n(x)$ |
| fi lter | $\sum h_k T_k(q)$ | $\sum h_k T_k(x)$ |



In Latex

- Style: \usepackage {booktabs}
- Horizontal lines: read documentation of booktabs http://texcatalogue.sarovar.org/entries/booktabs.html
- More space between rows: \renewcommand{\arraystretch} {1.2} (or 1.3)
- Remove space to the vertical edges: \begin{tabular}{@{}111@{}}...

Hierarchical Tables: Examples

One level of hierarchy: x-axis only

| slices | abs. error (%) | | abs. erro | abs. error (slices) | | | |
|-------------|----------------|------|-----------|---------------------|--|--|--|
| | avg. | max. | avg. | max | | | |
| < 5000 | 7.4 | 73.5 | 116 | 625 | | | |
| 5000-10000 | 3.1 | 27.2 | 209 | 1807 | | | |
| 10000-15000 | 2.4 | 15.6 | 297 | 2133 | | | |
| > 15000 | 1.8 | 9.0 | 317 | 1609 | | | |

One level of hierarchy: x-axis and y-axis

| | | w = 8 | | w = 16 | | | | w = 32 | | | |
|-------------|----------|------------------|----------|----------|-----------|-----------|---|-----------|-----------|-----------|--|
| | twid = 0 | twid = 1 | twid = 2 | twid = 0 | twid = 1 | twid = 2 | - | twid = 0 | twid = 1 | twid = 2 | |
| dir = 1 | | | | | | | | | | | |
| $c_{top,0}$ | 0.0790 | 0.1692 | 0.2945 | 0.3670 | 0.7187 | 3.1815 | | -1.0032 | -1.7104 | -21.7969 | |
| $c_{top,1}$ | -0.8651 | 50.0476 | 5.9384 | -9.0714 | 297.0923 | 46.2143 | | 4.3590 | 34.5809 | 76.9167 | |
| $c_{top,2}$ | 124.2756 | - 50.9612 | -14.2721 | 128.2265 | -630.5455 | -381.0930 | | -121.0518 | -137.1210 | -220.2500 | |
| dir = 0 | | | | | | | | | | | |
| $c_{top,0}$ | 0.0357 | 1.2473 | 0.2119 | 0.3593 | -0.2755 | 2.1764 | | -1.2998 | -3.8202 | -1.2784 | |
| $c_{top,1}$ | -17.9048 | -37.1111 | 8.8591 | -30.7381 | -9.5952 | -3.0000 | | -11.1631 | -5.7108 | -15.6728 | |
| $c_{top,2}$ | 105.5518 | 232.1160 | -94.7351 | 100.2497 | 141.2778 | -259.7326 | | 52.5745 | 10.1098 | -140.2130 | |

Latex Example

Table from the bottom of the previous slide:

```
\usepackage{booktabs}
\newcommand{\ra}[1]{\renewcommand{\arraystretch}{#1}}
\begin{table*}\centering
\ra{1.3}
\begin{tabular}{@{}rrrrcrrrcrrr@{}}\toprule
\phi = 32
\cmidrule{2-4} \cmidrule{6-8} \cmidrule{10-12}
 & $t=0$ & $t=1$ & $t=2$ && $t=0$ & $t=1$ & $t=2$ && $t=1$ & $t=2$\\ \midrule
$dir=1$\\
$c$ & 0.0790 & 0.1692 & 0.2945 && 0.3670 & 0.7187 & 3.1815 && -1.0032 & -1.7104 & -21.7969\\
$c$ & -0.8651& 50.0476& 5.9384&& -9.0714& 297.0923& 46.2143&& 4.3590& 34.5809& 76.9167\\
$c$ & 124.2756& -50.9612& -14.2721&& 128.2265& -630.5455& -381.0930&& -121.0518& -137.1210& -220.2500\\
$dir=0$\\
$c$ & 0.0357& 1.2473& 0.2119&& 0.3593& -0.2755& 2.1764&& -1.2998& -3.8202& -1.2784\\
$c$ & -17.9048& -37.1111& 8.8591&& -30.7381& -9.5952& -3.0000&& -11.1631& -5.7108& -15.6728\\
$c$ & 105.5518& 232.1160& -94.7351&& 100.2497& 141.2778& -259.7326&& 52.5745& 10.1098& -140.2130\\
\bottomrule
\end{tabular}
\caption{Caption}
\end{table*}
```

Further Examples

- The following tables are taken from the magazine Economist
- They demonstrate
 - How to handle multiple levels of hierarchy
 - Alignment, handling of long headers
 - The use of light gray to further divide the tables
 - Horizontal lines provide readability under denser packing and when lots of numbers are organized
 - Sans serif fonts are preferrable for readability;
 of course, if you need math symbols and use latex, then stick with roman
 - Title above table, sometimes with unit of measure
 - The use of footnotes
 - Different types of horizontal lines
 (I personally don't like the use of more than two)

Example Tables I

| Price of p Minimum we 2000, \$ | orivilege ealth require | d to be in: | |
|--------------------------------------|----------------------------|---------------|---------|
| Top 50% | 2,161 | Top 10% | 61,041 |
| Top 40% | 3,517 | Top 5% | 150,145 |
| Top 30% | 6,318 | Top 1% | 514,512 |
| Top 20% | 14,169 | 1,500,300,500 | |

Not enough

Women as % of German newspapers':

| | readers in 2006 | top editorial positions |
|-----------------------------------|-----------------------|-------------------------------|
| Dailies | | |
| Süddeutsche Zeitung | 44.0 | 10.0 |
| Frankfurter Allgemeine Zeitung | 36.0 | 6.25 |
| Handelsblatt | 25.0 | 0 |
| Die Welt | 37.0 | 31.0 |
| FT Deutschland | 32.0 | 25.0 |
| Weeklies | | |
| Der Spiegel | 36.0 | 0 |
| Focus | 36.0 | 16.7 |
| Stern | 48.0 | 16.0 |
| Die Zeit | 43.0 | 16.6 |
| Wirtschaftswoche | 20.5 | 0 |

Sources: Medien-Analyse ag.ma; Newspapers; The Economist

| 170 | | | | | | PAGE SELECTION |
|--------------|-------------|--------|--------|------|---------|----------------|
| ine | Econ | omist' | s hous | e-nm | CAID | dicators |
| and the same | | V | as | > P | CC 1111 | aicators |

% change

| | Latest | Q3 2006 | |
|---------------|----------|------------|-----------|
| | on a yea | ar earlier | 1997-2006 |
| Denmark | 23.3 | 18.7 | 115 |
| Ireland | 14.2 | 6.2 | 252 |
| Canada | 12.8 | 4.3 | 69 |
| South Africa | 12.7 | 20.7 | 327 |
| France | 12.5 | 15.5 | 127 |
| Sweden | 12.0 | 9.5 | 123 |
| Belgium | 11.8 | 20.0 | 118 |
| Spain | 10.8 | 13.4 | 173 |
| New Zealand | 9.6 | 14.9 | 94 |
| Australia | 9.5 | 1.7 | 132 |
| Britain | 9.6 | 2.7 | 192 |
| United States | 7.7 | 12.7 | 100 |
| Singapore | 7.6 | 3.3 | na |
| Italy | 6.6 | 7.3 | 88 |
| Netherlands | 6.2 | 5.3 | 97 |
| China | 5.4 | 5.5 | na |
| Switzerland | 2.0 | 0.8 | 16 |
| Germany | -0.8 | -1.3* | -1† |
| Hong Kong | -2.1 | 20.3 | -44 |
| Japan | -2.7 | -5.4 | -32 |

*2004 | 1997-2005

Sources: ABSA; Bulwien; ESRI; Japan Real Estate Institute; Nationwide; Nomisma; NVM; OFHEO; Quotable Value; Stadim; Swiss National Bank; government offices

Example Tables II

Democratic revival

Which of the following statements do you agree with most? %

| | t | Democracy is preferable to any other type of government | | | | | an authoritarian government can be preferable to a democratic one | | | | |
|----------------|------|---|------|------|----------------------|------|--|------|------|----------------------|--|
| | 1996 | 2001 | 2005 | 2006 | Change since 2005 | 1996 | 2001 | 2005 | 2006 | Change since 2005 | |
| Uruguay | 80 | 79 | 77 | 77 | nil | 9 | 10 | 10 | 10 | nil | |
| Costa Rica | 80 | 71 | 73 | 75 | 2 | 7 | 8 | 8 | 9 | 1 | |
| Argentina | 71 | 58 | 66 | 74 | 8 | 15 | 21 | 17 | 16 | -1 | |
| Dominican Rep. | na | na | 60 | 71 | 11 | na | na | 15 | 21 | 6 | |
| Venezuela | 62 | 57 | 78 | 70 | -8 | 19 | 20 | 11 | . 11 | nil | |
| Bolivia | 64 | 54 | 49 | 62 | 9 | 17 | 17 | 19 | 19 | nil | |
| Chile | 54 | 45 | 59 | 56 | -3 | 19 | 19 | 11 | 13 | 2 | |
| Nicaragua | 59 | 43 | 57 | 56 | -1 | 14 | 22 | 10 | 14 | 4 | |
| Panama | 75 | 34 | 52 | 55 | 3 | 10 | 23 | 12 | 19 | 7 | |
| Peru | 63 | 62 | 40 | 55 | 15 | 13 | 12 | 19 | 20 | 1 | |
| Ecuador | 52 | 40 | 43 | 54 | 11 | 18 | 23 | 18 | 21 | 3 | |
| Mexico | 53 | 46 | 59 | 54 | -5 | 23 | 35 | 13 | 15 | 2 | |
| Colombia | 60 | 36 | 46 | 53 | 7 | 20 | 16 | 11 | 15 | 4 | |
| El Salvador | 56 | 25 | 59 | 51 | -8 | 12 | 10 | 4 | 15 | 11 | |
| Honduras | 42 | 57 | 33 | 51 | 18 | 14 | 8 | 10 | 12 | 2 | |
| Brazil | 50 | 30 | 37 | 46 | 9 | 24 | 18 | 15 | 18 | 3 | |
| Guatemala | 50 | 33 | 32 | 41 | 9 | 21 | 21 | 17 | 35 | 18 | |
| Paraguay | 59 | 35 | 32 | 41 | 9 | 26 | 43 | 44 | 30 | -14 | |

In certain circumstances

South Korea

Taiwan

Brazil

Chile

Thailand

Argentina

Colombia

Venezuela

Saudi Arabia

South Africa

Mexico

Egypt

Israel

+16.7 Dec

+21.3 Dec

+1.3 Nov

+12.0 Nov

+46.1 Dec

+22.1 Dec

+0.3 0ct

-5.9 Nov

+36.8 03

-11.1 02

-7.6 Nov

+125.6 2005

-9.6 Nov

+6.2 Nov

+2.1 Nov

+6.7 03

+13.7 Nov

+5.2 03

-2.3 Q3

 $-1.3 q_3$

+29.7 03

+3.5 02

+6.7 03

-13.503

+90.0 2005

+26.3 03

nil

+5.0

nil

+1.6

+0.3

+2.2

-2.1

-1.1

+10.1

+1.1

+1.5

+25.7‡

-4.9

Source: Latinobarómetro

| | Trade balance* | Current-account balance | | | | Budget balance | Interest rates, % | | |
|----------------|---------------------------|---------------------------|-------------------|----------|--------------------------|-------------------|-------------------|--------------------------------|--|
| | latest 12 months, \$bn | latest 12 months, \$bn | % of GDP 2007† | Jan 10th | nits, per \$ year ago | % of GDP 2007‡ | 3-month latest | 10-year gov's bonds, latest | |
| United States | -837.2 Nov | -880.3 03 | -6.3 | - | - | -2.3 | 5.24 | 4.68 | |
| Japan | +76.7 0ct | +168.3 0ct | +3.8 | 120 | 114 | -4.8 | 0.46 | 1.75 | |
| China | +177.5 Dec | +160.8 2005 | +6.7 | 7.81 | 8.07 | -1.9 | 3.10 | 3.06 | |
| Britain | -152.2 Nov | -69.7 q3 | -2.8 | 0.52 | 0.57 | -2.7 | 5.31 | 4.80 | |
| Canada | +49.8 Nov | +28.9 03 | +1.1 | 1.18 | 1.16 | 0.7 | 4.17 | 4.06 | |
| Euro area | -22.9 0ct | -26.7 Oct | -0.1 | 0.77 | 0.83 | -1.7 | 3.75 | na | |
| Austria | -0.6 0ct | +12.2 03 | +1.4 | 0.77 | 0.83 | -1.4 | 3.75 | 4.00 | |
| Belgium | +15.5 0ct | +6.8 Sep | +2.2 | 0.77 | 0.83 | 0.1 | 3.80 | 4.01 | |
| France | -36.3 Oct | -42.4 Oct | -1.1 | 0.77 | 0.83 | -2.5 | 3.75 | 4.00 | |
| Germany | +203.0 Nov | +121.5 Nov | +3.9 | 0,77 | 0.83 | -1.7 | 3.75 | 3.97 | |
| Greece | -41.3 Sep | -27.9 Oct | -7.1 [‡] | 0.77 | 0.83 | -2.9 | 3.75 | 4.26 | |
| Italy | -27.7 Oct | -43.5 Oct | -1.8 | 0.77 | 0.83 | -3.5 | 3.75 | 4.20 | |
| Netherlands | +38.2 Oct | +63.2 03 | +7.8 | 0.77 | 0.83 | 0.6 | 3.75 | 3.99 | |
| Spain | -110.1 0ct | -99.9 Sep | -8.5 | 0.77 | 0.83 | 0.6 | 3.75 | 4.02 | |
| Czech Republic | +2.0 Nov | -5.2 Q3 | -2.7 | 21.4 | 23.7 | -4.0 | 2.56 | 3.75 | |
| Denmark | +6.9 Nov | +7.2 Nov | +2.2 | 5.76 | 6.17 | 3.0 | 3.91 | 3.94 | |
| Hungary | -2.8 Nov | -6.9 Q3 | -5.9 | 198 | 207 | -7.1 | 8.03 | 7.23 | |
| Norway | +57.8 Nov | +56.0 Q3 | +17.6‡ | 6.44 | 6.64 | 19.3 | 3.92 | 4.35 | |
| Poland | -4.2 Oct | -6.3 Oct | -2.3 | 3.00 | 3.13 | -2.5 | 4.20 | 5.22 | |
| Russia | +141.2 0ct | +99.5 03 | +7.3 | 26.5 | 28.4 | 5.9 | 11.00 | 6.25 | |
| Sweden | +19.7 Nov | +26.2 03 | +6.4 | 7.06 | 7.73 | 2.4 | 3.07 | 3.82 | |
| Switzerland | +9.7 Nov | +105.9 03 | +13.4 | 1.25 | 1.28 | 1.2 | 2.13 | 2.59 | |
| Turkey | -53.2 Nov | -34.4 Oct | -6.6 | 1.45 | 1,34 | -2.8 | 19.71 | 19.79 | |
| Australia | -9.4 Nov | -39.5 Q3 | -5.2 | 1.29 | 1.33 | 1.1 | 6.43 | 5.86 | |
| Hong Kong | -17.3 Nov | +19.2 03 | +9.3 | 7.80 | 7.75 | 1.1 | 3.96 | 3.71 | |
| India | -48.8 Nov | -13.7 gs | -2.2 | 44.6 | 44.2 | -4.3 | 7.12 | 7.67 | |
| Indonesia | +38.5 Nov | +7.0 Q3 | +1.4 | 9,080 | 9,465 | -0.9 | 9.57 | 6.20∮ | |
| Malaysia | +28.6 Nov | +22.2 03 | +11.1 | 3.52 | 3.75 | -4.1 | 3.73 | 5.29 | |
| Pakistan | -12.9 Nov | -6.0 Q3 | -5.1 [‡] | 61.0 | 59.8 | -4.6 | 10.32 | 6.39§ | |
| Singapore | +35.2 Nov | +39.0 q3 | +25.2 | 1.54 | 1.63 | 0.3 | 3.41 | 2.98 | |

938

32.7

36.0

3.08

2.15

542

2,248

11.0

3,913

5.70

4.25

3.75

7.33

985

32.1

39.7

3.05

2.27

524

2,275

10.6

2,653

5.74

4.63

3.75

6.08

0.4

-2.8

-1.2

1.4

-2.2

5.8

-1.5

-0.3

-2.5

-8.0

-2.9

16.8

-2.0

4.87

1.82

5.25

10.63

13.19

5.16

6.69

7.02

10.08

9.71

4.64

4.93

9.35

4.91

2.08

5.04

па

6.165

5.275

6.265

7.65

6.55

5.405

5.28

na

7.77

Example Tables III

Trade, exchange rates and budgets

| | Trade balance*, \$bn | Current-account balance | | | Exchange rate | | Currency units | | | | | Budget | |
|---------------|----------------------|-------------------------|---------|-------------|---------------|--------------|----------------|---------|--------|------|------|--------|----------|
| | latest 12 | \$bn | | iomist poll | trade-we | ighted† | | per | | per | per | per | balance |
| | months | latest 12 mths | % of GD | P, forecast | 2000 | =100 | | \$ | | £ | euro | ¥100 | % of GDP |
| | | | 2006 | 2007 | Dec 6th | year ago | De | :6th ye | ar ago | | | | 2006‡ |
| Australia | - 10.2 Oct | - 39.5 Q3 | - 5.5 | - 5.1 | 119.6 | 120.0 | 1. | 27 : | 1.34 | 2.50 | 1.69 | 1.10 | + 2.5 |
| Austria | - 1.2 Sep | + 9.2 Q2 | + 1.4 | + 1.4 | 105.8§ | 104.9 | 0. | 75 (| 0.85 | 1.48 | - | 0.65 | - 1.3 |
| Belgium | + 16.0 Sep | + 6.5 Jun | + 1.8 | + 2.1 | 107.5§ | 106.5 | 0. | 75 (| 0.85 | 1.48 | _ | 0.65 | nil |
| Britain | -144.2 Sep | - 64.4 Q2 | - 2.6 | - 2.7 | 103.2 | 98.8 | 0. | 51 (| 5.58 | _ | 0.68 | 0.44 | - 3.0 |
| Canada | + 53.7 Sep | + 28.9 Q3 | + 1.4 | + 0.8 | 124.9 | 125.8 | 1. | 15 : | 1.16 | 2.26 | 1.53 | 1.00 | + 0.9 |
| Denmark | + 7.7 Sep | + 7.6 Sep | + 2.3 | + 2.2 | 106.7 | 105.8 | 5. | 60 6 | 5.35 | 11.0 | 7.46 | 4.87 | + 3.4 |
| France | - 34.9 Sep | - 41.5 Sep | - 1.6 | - 1.3 | 108.4§ | 107.2 | 0. | 75 (| 0.85 | 1.48 | - | 0.65 | - 2.7 |
| Germany | +187.4 Sep | +107.5 Sep | + 3.1 | + 3.2 | 110.2§ | 108.6 | _ 0 | 75 (| 0.85 | 1.48 | | 0.65 | - 2.3 |
| Italy | - 26.4 Sep | - 39.1 Sep | - 2.3 | - 1.9 | 108.1§ | 106.9 | 0. | 75 (| 0.85 | 1.48 | - | 0.65 | - 4.8 |
| Japan | + 78.4 Sep | +168.1 Sep | + 3.7 | + 3.7 | 80.0 | 80.3 | 1 | 15 | 121 | 226 | 153 | - | - 4.6 |
| Netherlands | + 38.3 Sep | + 63.2 Q3 | + 7.3 | + 6.3 | 108.4§ | 107.3 | 0 | 75 (| 0.85 | 1.48 | | 0.65 | - 0.4 |
| Spain | -107.4 Sep | - 98.4 Aug | - 8.2 | - 8.0 | 105.9§ | 105.1 | 0 | 75 (| 0.85 | 1.48 | _ | 0.65 | + 1.4 |
| Sweden | + 19.3 Oct | + 26.2 Q3 | + 6.5 | + 6.1 | 100.9 | 95.0 | 6 | 80 8 | 8.02 | 13.4 | 9.06 | 5.92 | + 2.9 |
| Switzerland | + 9.2 Oct | + 55.3 Q2 | +13.8 | +12.9 | 105.7 | 107.1 | 1. | 19 : | 1.31 | 2.35 | 1.59 | 1.04 | + 0.2 |
| United States | -849.5 Sep | -838.1 Q2 | - 6.6 | - 6.4 | 82.0 | 88.3 | | _ | _ | 1.97 | 1.33 | 0.87 | - 2.3 |
| Euro area | - 24.1 Sep | - 35.3 Sep | - 0.3 | - 0.1 | 120.6 | 114.9 | 0 | 75 (| 0.85 | 1.48 | - | 0.65 | - 2.1 |
| | | | | | | . | | | | | | | |

^{*}Merchandise. Australia, Britain, France, Canada, Japan and United States imports fob, exports fob. All others cif/fob. †Bank of England except §IMF, September average. ‡OECD forecast.

Example Tables IV

The Economist poll of forecasters, December averages (previous month's, if changed)

| | | Real GDP, | % change | | Consu | mer prices | Current account | | | |
|----------------------|----------------|-----------|-----------|-----------|-----------|------------|-----------------|-------------|--|--|
| _ | Low/high range | | average | | | ncrease | % of GDP | | | |
| | 2006 | 2007 | 2006 | 2007 | 2006 | 2007 | 2006 | 2007 | | |
| Australia | 2.3/2.9 | 2.3/3.7 | 2.6 (2.7) | 3.0 (3.2) | 3.4 | 2.7 | -5.5(-5.6) | -5.1 (-5.2) | | |
| Austria | 1.9/3.3 | 1.8/2.6 | 2.8 | 2.3 (2.1) | 1.6 (1.7) | 1.6 (1.7) | 1.4 (1.1) | 1.4 (1.1) | | |
| Belgium | 2.6/3.0 | 1.8/2.4 | 2.8 (2.7) | 2.0 (1.9) | 2.2 | 1.9 (2.0) | 1.8 | 2.1 (1.9) | | |
| Britain | 2.5/2.7 | 1.8/2.8 | 2.6 | 2.4 | 2.3 | 2.1 (2.2) | -2.6 | -2.7 (-2.8) | | |
| Canada | 2.8/3.0 | 2.0/2.9 | 2.8 | 2.5 | 2.1 (2.2) | 2.0 (2.1) | 1.4 | 0.8 (0.9) | | |
| Denmark | 2.8/3.8 | 1.9/3.0 | 3.3 (3.1) | 2.3 | 1.9 (2.0) | 1.9 (2.0) | 2.3 (2.0) | 2.2 (1.9) | | |
| France | 2.0/2.3 | 1.6/2.5 | 2.1 (2.3) | 2.0 | 1.9 (1.8) | 1.5 | -1.6(-1.5) | -1.3 (-1.2) | | |
| Germany | 2.2/2.8 | 0.6/2.2 | 2.4 | 1.5 (1.4) | 1.7 | 2.2 (2.3) | 3.1 (3.6) | 3.2 (3.7) | | |
| Italy | 1.5/1.9 | 0.9/2.0 | 1.7 | 1.3 (1.2) | 2.2 | 1.9 | -2.3(-1.8) | -1.9 (-1.7) | | |
| Japan | 2.7/2.9 | 1.4/3.0 | 2.8 (2.7) | 2.0 (2.1) | 0.2 (0.3) | 0.5 | 3.7 (3.6) | 3.7 (3.6) | | |
| Netherlands | 2.5/3.0 | 1.6/2.9 | 2.7 | 2.3 (2.2) | 1.6 | 1.7 | 7.3 (6.3) | 6.3 (5.7) | | |
| Spain | 3.3/3.7 | 2.5/3.2 | 3.5 | 2.9 (2.8) | 3.6 (3.5) | 2.8 | -8.2(-8.1) | -8.0 (-7.8) | | |
| Sweden | 4.0/4.7 | 2.6/3.7 | 4.4 | 3.2 (3.1) | 1.4 | 1.8 | 6.5 (6.4) | 6.1 (5.9) | | |
| Switzerland | 2.4/3.1 | 1.5/2.6 | 2.9 | 2.1 | 1.2 | 1.1 (1.2) | 13.8(13.5) | 12.9 | | |
| United States | 3.2/3.3 | 1.6/2.9 | 3.3 | 2.2 (2.3) | 3.3 (3.4) | 2.1 (2.3) | -6.6 | -6.4 (-6.5) | | |
| Euro area | 2.5/2.7 | 1.5/2.5 | 2.6 | 1.9 | 2.2 | 2.1 | -0.3(-0.4) | -0.1 | | |

Sources: ABN AMRO, Deutsche Bank, Economist Intelligence Unit, Goldman Sachs, HSBC Securities, KBC Bank, JPMorgan Chase, Morgan Stanley, Decision Economics, BNP Paribas, Citigroup, Scotiabank, UBS

Example Tables V

The Economist commodity price index

2000=100

| | | | % change on | | | | |
|---------------------|------------|----------|-------------|--------|--|--|--|
| | Nov 28th | Dec 5th* | one | one | | | |
| | | | month | year | | | |
| Dollar index | | | | | | | |
| Allitems | 185.5 | 188.3 | + 0.9 | + 34.8 | | | |
| Food | 154.3 | 153.8 | + 1.9 | + 25.4 | | | |
| Industrials | | | | | | | |
| All | 226.0 | 232.9 | nil | + 44.0 | | | |
| Nfa† | 135.0 | 137.0 | - 0.1 | + 2.3 | | | |
| Metals | 275.6 | 285.2 | + 0.1 | + 61.3 | | | |
| Sterling inde | x | | | | | | |
| Allitems | 144.5 | 144.9 | - 2.3 | + 18.9 | | | |
| Euro index | | | | | | | |
| Allitems | 130.5 | 130.8 | - 3.0 | + 19.3 | | | |
| Yen index | | | | | | | |
| All items | 200.1 | 201.0 | - 1.2 | + 28.2 | | | |
| Gold | | | | | | | |
| \$ per oz | 636.08 | 643.28 | + 2.8 | + 26.8 | | | |
| West Texas Ir | termediate | | | | | | |
| \$ per barrel | 60.85 | 62.46 | + 5.9 | + 4.2 | | | |
| | | | | | | | |

^{*}Provisional. †Non-food agriculturals.

| THE RESERVE | | | % change on | | | |
|------------------|------------|-------------------|-----------------|--------|--|--|
| | Jan 2nd | Jan 9th* | one month | one | | |
| Dollar index | | | | | | |
| All items | 187.0 | 168.0 | -9.8 | +13.5 | | |
| Food | 157.5 | 150.1 | -1.7 | +15.0 | | |
| Industrials | | | | | | |
| All | 225.2 | 191.1 | -16.9 | +12.1 | | |
| Nfa [†] | 147.8 | 147.8 | +5.7 | +4.8 | | |
| Metals | 267.5 | 214.7 | -23.0 | +15.1 | | |
| Sterling index | | Title lines | 10.110 | 118 | | |
| All items | 143.7 | 131.2 | -8.6 | +3.2 | | |
| Euro index | TIE WIND | | | | | |
| All items | 130.2 | 119.4 | -8.2 | +5.3 | | |
| Gold | Non In | HINDER. | MINE | | | |
| \$ per oz | 640.70 | 609.10 | -3.1 | +12.4 | | |
| West Texas Int | termediate | le de la constant | OF THE STATE OF | Haller | | |
| \$ per barrel | 60.77 | 55.57 | -8.8 | -12.2 | | |