Introduction

The file documents the knitLatex package. The purpose of this package is to provide IATEX helpers designed to work with the knitr package. The package provides functions. Three of which, xTab, sTab, and lTab create table, longtable, and supertabular environments in LaTeX respectively. The fourth function knitr_sethooks serves two purposes. First, it fixes a well-known bug in knitr which dissallows using custom hooks in a "results='asis" environment. Secondly, knitr_sethooks provides a custom command called 'com'. When "com=TRUE" is set in a chunk, the resulting chunk is turned into a IATEX command which can be referenced by the chuck label. For example, the chunk "\(\lambda\)" can be referenced with \mychuck anywhere is the documentand the resultant IATEX will be the same as what normally would have appeared in the spot of the chunk.

longtable

mpg	g cyl	disp	hp	drat	wt	qsec	vs	am	gear	carb
21	. 6	160	110	3.9	2.62	16.46	0	1	4	4
21	6	160	110	3.9	2.875	17.02	0	1	4	4
22.8	3 4	108	93	3.85	2.32	18.61	1	1	4	1
21.4	1 6	258	110	3.08	3.215	19.44	1	0	3	1
18.7	7 8	360	175	3.15	3.44	17.02	0	0	3	2
18.1	6	225	105	2.76	3.46	20.22	1	0	3	1
14.3	8	360	245	3.21	3.57	15.84	0	0	3	4
24.4	4	146.7	62	3.69	3.19	20	1	0	4	2
22.8	3 4	140.8	95	3.92	3.15	22.9	1	0	4	2
19.2	2 6	167.6	123	3.92	3.44	18.3	1	0	4	4
17.8	6	167.6	123	3.92	3.44	18.9	1	0	4	4
16.4	1 8	275.8	180	3.07	4.07	17.4	0	0	3	3
17.3	8	275.8	180	3.07	3.73	17.6	0	0	3	3
15.2	2 8	275.8	180	3.07	3.78	18	0	0	3	3
10.4	1 8	472	205	2.93	5.25	17.98	0	0	3	4
10.4	1 8	460	215	3	5.424	17.82	0	0	3	4
14.7	7 8	440	230	3.23	5.345	17.42	0	0	3	4
32.4	4	78.7	66	4.08	2.2	19.47	1	1	4	1
-										

$\overline{\mathrm{mpg}}$	cyl	disp	hp	drat	wt	qsec	vs	am	gear	carb
30.4	4	75.7	52	4.93	1.615	18.52	1	1	4	2
33.9	4	71.1	65	4.22	1.835	19.9	1	1	4	1
21.5	4	120.1	97	3.7	2.465	20.01	1	0	3	1
15.5	8	318	150	2.76	3.52	16.87	0	0	3	2
15.2	8	304	150	3.15	3.435	17.3	0	0	3	2
13.3	8	350	245	3.73	3.84	15.41	0	0	3	4
19.2	8	400	175	3.08	3.845	17.05	0	0	3	2
27.3	4	79	66	4.08	1.935	18.9	1	1	4	1
26	4	120.3	91	4.43	2.14	16.7	0	1	5	2
30.4	4	95.1	113	3.77	1.513	16.9	1	1	5	2
15.8	8	351	264	4.22	3.17	14.5	0	1	5	4
19.7	6	145	175	3.62	2.77	15.5	0	1	5	6
15	8	301	335	3.54	3.57	14.6	0	1	5	8
21.4	4	121	109	4.11	2.78	18.6	1	1	4	2
21	6	160	110	3.9	2.62	16.46	0	1	4	4
21	6	160	110	3.9	2.875	17.02	0	1	4	4
22.8	4	108	93	3.85	2.32	18.61	1	1	4	1
21.4	6	258	110	3.08	3.215	19.44	1	0	3	1
18.7	8	360	175	3.15	3.44	17.02	0	0	3	2
18.1	6	225	105	2.76	3.46	20.22	1	0	3	1
14.3	8	360	245	3.21	3.57	15.84	0	0	3	4
24.4	4	146.7	62	3.69	3.19	20	1	0	$\overline{4}$	2
22.8	$\overline{4}$	140.8	95	3.92	3.15	22.9	1	0	$\overline{4}$	$\overline{2}$
19.2	6	167.6	123	3.92	3.44	18.3	1	0	4	4
17.8	6	167.6	123	3.92	3.44	18.9	1	0	4	4
16.4	8	275.8	180	3.07	4.07	17.4	0	0	3	3
17.3	8	275.8	180	3.07	3.73	17.6	0	0	3	3
15.2	8	275.8	180	3.07	3.78	18	0	0	3	3
10.4	8	472	205	2.93	5.25	17.98	0	0	3	4
10.4	8	460	215	3	5.424	17.82	0	0	3	4
14.7	8	440	230	3.23	5.345	17.42	0	0	3	4
32.4	4	78.7	66	4.08	2.2	19.47	1	1	$\stackrel{\circ}{4}$	1
30.4	$\overline{4}$	75.7	52	4.93	1.615	18.52	1	1	$\overline{4}$	$\overline{2}$
33.9	$\overline{4}$	71.1	65	4.22	1.835	19.9	1	1	$\overline{4}$	1
21.5	$\overline{4}$	120.1	97	3.7	2.465	20.01	1	0	3	1
15.5	8	318	150	2.76	3.52	16.87	0	0	3	$\stackrel{-}{2}$
15.2	8	304	150	3.15	3.435	17.3	0	0	3	2
13.3	8	350	245	3.73	3.84	15.41	0	0	3	4
19.2	8	400	175	3.08	3.845	17.05	0	0	3	2
27.3	4	79	66	4.08	1.935	18.9	1	1	4	1
26	4	120.3	91	4.43	2.14	16.7	0	1	5	2
30.4	4	95.1	113	3.77	1.513	16.9	1	1	5	$\frac{2}{2}$
15.8	8	351	$\frac{110}{264}$	4.22	3.17	14.5	0	1	5	$\frac{2}{4}$
19.7	6	145	175	3.62	2.77	15.5	0	1	5	6
15.7	8	301	335	3.54	$\frac{2.11}{3.57}$	14.6	0	1	5	8
	0	901	000	0.04	0.01	14.0	U	1	0	

mpg	cyl	disp	hp	drat	wt	qsec	vs	am	gear	carb
$\frac{18}{21.4}$	4	121	109	4.11	2.78	18.6	1	1	4	2
21	6	160	110	3.9	2.62	16.46	0	1	4	4
21	6	160	110	3.9	2.875	17.02	0	1	4	4
22.8	4	108	93	3.85	2.32	18.61	1	1	4	1
21.4	6	258	110	3.08	3.215	19.44	1	0	3	1
18.7	8	360	175	3.15	3.44	17.02	0	0	3	2
18.1	6	225	105	2.76	3.46	20.22	1	0	3	1
14.3	8	360	245	3.21	3.57	15.84	0	0	3	4
24.4	4	146.7	62	3.69	3.19	20	1	0	4	2
22.8	4	140.8	95	3.92	3.15	22.9	1	0	4	2
19.2	6	167.6	123	3.92	3.44	18.3	1	0	4	4
17.8	6	167.6	123	3.92	3.44	18.9	1	0	4	4
16.4	8	275.8	180	3.07	4.07	17.4	0	0	3	3
17.3	8	275.8	180	3.07	3.73	17.6	0	0	3	3
15.2	8	275.8	180	3.07	3.78	18	0	0	3	3
10.4	8	472	205	2.93	5.25	17.98	0	0	3	4
10.4	8	460	215	3	5.424	17.82	0	0	3	4
14.7	8	440	230	3.23	5.345	17.42	0	0	3	4
32.4	4	78.7	66	4.08	2.2	19.47	1	1	4	1
30.4	4	75.7	52	4.93	1.615	18.52	1	1	4	2
33.9	4	71.1	65	4.22	1.835	19.9	1	1	4	1
21.5	4	120.1	97	3.7	2.465	20.01	1	0	3	1
15.5	8	318	150	2.76	3.52	16.87	0	0	3	2
15.2	8	304	150	3.15	3.435	17.3	0	0	3	2
13.3	8	350	245	3.73	3.84	15.41	0	0	3	4
19.2	8	400	175	3.08	3.845	17.05	0	0	3	2
27.3	4	79	66	4.08	1.935	18.9	1	1	4	1
26	4	120.3	91	4.43	2.14	16.7	0	1	5	2
30.4	4	95.1	113	3.77	1.513	16.9	1	1	5	2
15.8	8	351	264	4.22	3.17	14.5	0	1	5	4
19.7	6	145	175	3.62	2.77	15.5	0	1	5	6
15	8	301	335	3.54	3.57	14.6	0	1	5	8
21.4	4	121	109	4.11	2.78	18.6	1	1	4	2

supertabular

Table 3.1: My Supertabular

mpg	cyl	disp	hp	drat	wt	qsec	vs	am	gear	carb
21	6	160	110	3.9	2.62	16.46	0	1	4	4
21	6	160	110	3.9	2.875	17.02	0	1	4	4
22.8	4	108	93	3.85	2.32	18.61	1	1	4	1
21.4	6	258	110	3.08	3.215	19.44	1	0	3	1
18.7	8	360	175	3.15	3.44	17.02	0	0	3	2
18.1	6	225	105	2.76	3.46	20.22	1	0	3	1
14.3	8	360	245	3.21	3.57	15.84	0	0	3	4
24.4	4	146.7	62	3.69	3.19	20	1	0	4	2
22.8	4	140.8	95	3.92	3.15	22.9	1	0	4	2
19.2	6	167.6	123	3.92	3.44	18.3	1	0	4	4
17.8	6	167.6	123	3.92	3.44	18.9	1	0	4	4
16.4	8	275.8	180	3.07	4.07	17.4	0	0	3	3
17.3	8	275.8	180	3.07	3.73	17.6	0	0	3	3
15.2	8	275.8	180	3.07	3.78	18	0	0	3	3
10.4	8	472	205	2.93	5.25	17.98	0	0	3	4
10.4	8	460	215	3	5.424	17.82	0	0	3	4

$\overline{\text{mpg}}$	cyl	disp	hp	drat	wt	qsec	vs	am	gear	carb
$\frac{14.7}{14.7}$	8	440	230	3.23	5.345	17.42	0	0	3	4
32.4	4	78.7	66	4.08	2.2	19.47	1	1	4	1
30.4	4	75.7	52	4.93	1.615	18.52	1	1	4	2
33.9	4	71.1	65	4.22	1.835	19.9	1	1	4	1
21.5	4	120.1	97	3.7	2.465	20.01	1	0	3	1
15.5	8	318	150	2.76	3.52	16.87	0	0	3	2
15.2	8	304	150	3.15	3.435	17.3	0	0	3	2
13.3	8	350	245	3.73	3.84	15.41	0	0	3	4
19.2	8	400	175	3.08	3.845	17.05	0	0	3	2
27.3	4	79	66	4.08	1.935	18.9	1	1	4	1
26	4	120.3	91	4.43	2.14	16.7	0	1	5	2
30.4	4	95.1	113	3.77	1.513	16.9	1	1	5	2
15.8	8	351	264	4.22	3.17	14.5	0	1	5	4
19.7	6	145	175	3.62	2.77	15.5	0	1	5	6
15	8	301	335	3.54	3.57	14.6	0	1	5	8
21.4	4	121	109	4.11	2.78	18.6	1	1	4	2
21	6	160	110	3.9	2.62	16.46	0	1	4	4
21	6	160	110	3.9	2.875	17.02	0	1	4	4
22.8	4	108	93	3.85	2.32	18.61	1	1	4	1
21.4	6	258	110	3.08	3.215	19.44	1	0	3	1
18.7	8	360	175	3.15	3.44	17.02	0	0	3	2
18.1	6	225	105	2.76	3.46	20.22	1	0	3	1
14.3	8	360	245	3.21	3.57	15.84	0	0	3	4
24.4	4	146.7	62	3.69	3.19	20	1	0	4	2
22.8	4	140.8	95	3.92	3.15	22.9	1	0	4	2
19.2	6	167.6	123	3.92	3.44	18.3	1	0	4	4
17.8	6	167.6	123	3.92	3.44	18.9	1	0	4	4
16.4	8	275.8	180	3.07	4.07	17.4	0	0	3	3
17.3	8	275.8	180	3.07	3.73	17.6	0	0	3	3
15.2	8	275.8	180	3.07	3.78	18	0	0	3	3
10.4	8	472	205	2.93	5.25	17.98	0	0	3	4
10.4	8	460	215	3	5.424	17.82	0	0	3	4
14.7	8	440	230	3.23	5.345	17.42	0	0	3	4
32.4	4	78.7	66	4.08	2.2	19.47	1	1	4	1
30.4	4	75.7	52	4.93	1.615	18.52	1	1	4	2
33.9	4	71.1	65	4.22	1.835	19.9	1	1	4	1
21.5	4	120.1	97	3.7	2.465	20.01	1	0	3	1
15.5	8	318	150	2.76	3.52	16.87	0	0	3	2
15.2	8	304	150	3.15	3.435	17.3	0	0	3	2
13.3	8	350	245	3.73	3.84	15.41	0	0	3	4
19.2	8	400	175	3.08	3.845	17.05	0	0	3	2

-mpg	cyl	disp	hp	drat	wt	qsec	VS	am	gear	carb
$\frac{1178}{27.3}$	$\frac{-31}{4}$	79	66	4.08	1.935	18.9	1	1	4	1
26	4	120.3	91	4.43	2.14	16.7	0	1	5	2
30.4	$\overline{4}$	95.1	113	3.77	1.513	16.9	1	1	5	$\overline{2}$
15.8	8	351	264	4.22	3.17	14.5	0	1	5	$\overline{4}$
19.7	6	145	175	3.62	2.77	15.5	0	1	5	6
15	8	301	335	3.54	3.57	14.6	0	1	5	8
21.4	4	121	109	4.11	2.78	18.6	1	1	4	2
21	6	160	110	3.9	2.62	16.46	0	1	4	4
21	6	160	110	3.9	2.875	17.02	0	1	4	4
22.8	4	108	93	3.85	2.32	18.61	1	1	4	1
21.4	6	258	110	3.08	3.215	19.44	1	0	3	1
18.7	8	360	175	3.15	3.44	17.02	0	0	3	2
18.1	6	225	105	2.76	3.46	20.22	1	0	3	1
14.3	8	360	245	3.21	3.57	15.84	0	0	3	4
24.4	4	146.7	62	3.69	3.19	20	1	0	4	2
22.8	4	140.8	95	3.92	3.15	22.9	1	0	4	2
19.2	6	167.6	123	3.92	3.44	18.3	1	0	4	4
17.8	6	167.6	123	3.92	3.44	18.9	1	0	4	4
16.4	8	275.8	180	3.07	4.07	17.4	0	0	3	3
17.3	8	275.8	180	3.07	3.73	17.6	0	0	3	3
15.2	8	275.8	180	3.07	3.78	18	0	0	3	3
10.4	8	472	205	2.93	5.25	17.98	0	0	3	4
10.4	8	460	215	3	5.424	17.82	0	0	3	4
14.7	8	440	230	3.23	5.345	17.42	0	0	3	4
32.4	4	78.7	66	4.08	2.2	19.47	1	1	4	1
30.4	4	75.7	52	4.93	1.615	18.52	1	1	4	2
33.9	4	71.1	65	4.22	1.835	19.9	1	1	4	1
21.5	4	120.1	97	3.7	2.465	20.01	1	0	3	1
15.5	8	318	150	2.76	3.52	16.87	0	0	3	2
15.2	8	304	150	3.15	3.435	17.3	0	0	3	2
13.3	8	350	245	3.73	3.84	15.41	0	0	3	4
19.2	8	400	175	3.08	3.845	17.05	0	0	3	2
27.3	4	79	66	4.08	1.935	18.9	1	1	4	1
26	4	120.3	91	4.43	2.14	16.7	0	1	5	2
30.4	4	95.1	113	3.77	1.513	16.9	1	1	5	2
15.8	8	351	264	4.22	3.17	14.5	0	1	5	4
19.7	6	145	175	3.62	2.77	15.5	0	1	5	6
15	8	301	335	3.54	3.57	14.6	0	1	5	8
21.4	4	121	109	4.11	2.78	18.6	1	1	4	2

figure w/com

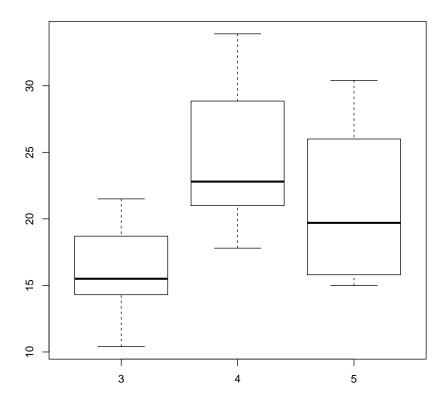


Figure 4.1: myfigure

xTab

```
xTab(mtcars, label='tab:mytable', caption.bottom='My Table')
## \begin{table}[ht]
## \begin{center}
## \begin{tabular}{rrrrrrrrrr}
## \hline
## mpg & cyl & disp & hp & drat & wt & qsec & vs & am & gear & carb \\
## \hline
## 21 & 6 & 160 & 110 & 3.9 & 2.62 & 16.46 & 0 & 1 & 4 & 4 \\
## 21 & 6 & 160 & 110 & 3.9 & 2.875 & 17.02 & 0 & 1 & 4 & 4 \\
## 22.8 & 4 & 108 & 93 & 3.85 & 2.32 & 18.61 & 1 & 1 & 4 & 1 \\
## 21.4 & 6 & 258 & 110 & 3.08 & 3.215 & 19.44 & 1 & 0 & 3 & 1 \\
  18.7 & 8 & 360 & 175 & 3.15 & 3.44 & 17.02 & 0 & 0 & 3 & 2 \\
## 18.1 & 6 & 225 & 105 & 2.76 & 3.46 & 20.22 & 1 & 0 & 3 & 1 \\
## 14.3 & 8 & 360 & 245 & 3.21 & 3.57 & 15.84 & 0 & 0 & 3 & 4 \\
## 24.4 & 4 & 146.7 & 62 & 3.69 & 3.19 & 20 & 1 & 0 & 4 & 2 \\
## 22.8 & 4 & 140.8 & 95 & 3.92 & 3.15 & 22.9 & 1 & 0 & 4 & 2 \\
## 19.2 & 6 & 167.6 & 123 & 3.92 & 3.44 & 18.3 & 1 & 0 & 4 & 4 \\
## 17.8 & 6 & 167.6 & 123 & 3.92 & 3.44 & 18.9 & 1 & 0 & 4 & 4 \\
## 16.4 & 8 & 275.8 & 180 & 3.07 & 4.07 & 17.4 & 0 & 0 & 3 & 3 \\
```

```
## 17.3 & 8 & 275.8 & 180 & 3.07 & 3.73 & 17.6 & 0 & 0 & 3 & 3 \\
## 15.2 & 8 & 275.8 & 180 & 3.07 & 3.78 & 18 & 0 & 0 & 3 & 3 \\
## 10.4 & 8 & 472 & 205 & 2.93 & 5.25 & 17.98 & 0 & 0 & 3 & 4 \\
## 10.4 & 8 & 460 & 215 & 3 & 5.424 & 17.82 & 0 & 0 & 3 & 4 \\
## 14.7 & 8 & 440 & 230 & 3.23 & 5.345 & 17.42 & 0 & 0 & 3 & 4 \\
## 32.4 & 4 & 78.7 & 66 & 4.08 & 2.2 & 19.47 & 1 & 1 & 4 & 1 \\
## 30.4 & 4 & 75.7 & 52 & 4.93 & 1.615 & 18.52 & 1 & 1 & 4 & 2 \\
## 33.9 & 4 & 71.1 & 65 & 4.22 & 1.835 & 19.9 & 1 & 1 & 4 & 1 \\
## 21.5 & 4 & 120.1 & 97 & 3.7 & 2.465 & 20.01 & 1 & 0 & 3 & 1 \\
## 15.5 & 8 & 318 & 150 & 2.76 & 3.52 & 16.87 & 0 & 0 & 3 & 2 \\
## 15.2 & 8 & 304 & 150 & 3.15 & 3.435 & 17.3 & 0 & 0 & 3 & 2 \\
## 13.3 & 8 & 350 & 245 & 3.73 & 3.84 & 15.41 & 0 & 0 & 3 & 4 \\
## 19.2 & 8 & 400 & 175 & 3.08 & 3.845 & 17.05 & 0 & 0 & 3 & 2 \\
## 27.3 & 4 & 79 & 66 & 4.08 & 1.935 & 18.9 & 1 & 1 & 4 & 1 \\
## 26 & 4 & 120.3 & 91 & 4.43 & 2.14 & 16.7 & 0 & 1 & 5 & 2 \\
## 30.4 & 4 & 95.1 & 113 & 3.77 & 1.513 & 16.9 & 1 & 1 & 5 & 2 \\
## 15.8 & 8 & 351 & 264 & 4.22 & 3.17 & 14.5 & 0 & 1 & 5 & 4 \\
## 19.7 & 6 & 145 & 175 & 3.62 & 2.77 & 15.5 & 0 & 1 & 5 & 6 \\
## 15 & 8 & 301 & 335 & 3.54 & 3.57 & 14.6 & 0 & 1 & 5 & 8 \\
## 21.4 & 4 & 121 & 109 & 4.11 & 2.78 & 18.6 & 1 & 1 & 4 & 2 \\
## \hline
## \end{tabular}
## \caption{My Table}
## \label{tab:mytable}
## \end{center}
## \end{table}
```

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plot(mtcars\$mpg)

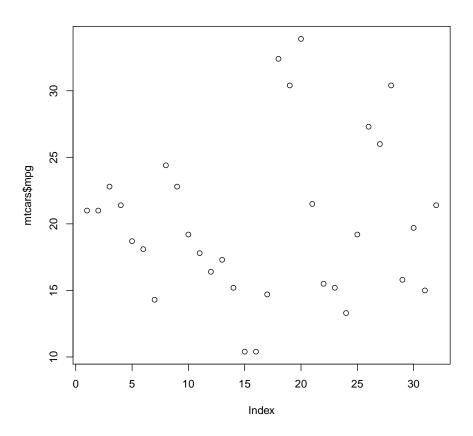


Figure 6.1: myotherfig